KCSE 2023 PROJECTION

ALL SUBJECTS

An Appendage of Questions Speculated to be Tested in the Final KCSE Examinations Predicted by a Team of Experienced KNEC Examiners & Professionals Scheduled for November 2023.

SUBJECTS PREDICTED;

Mathematics, English, Kiswahili, Biology, Chemistry, Physics, CRE, Geography, Business Studies, Art and Design, Agriculture, IRE, History and Government, French, German, Computer Studies & Home-science

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CONFIDENTIAL

For Marking Schemes

Mr Isaboke 0746-222-000 / 0742-999-000

THE GATEWAY TO SUCCESS

KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

CHRISTIAN RELIGIOUS EDUCATION

313/1

PAPER 1

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

- ***a)*** *This paper consists of six questions.*
- ***b)*** *Answer **ANY FIVE** Questions in the answer booklet provided.*
- ***c)*** *All questions carry equal marks*
- ***d)*** *Candidates should check to ensure that all pages are printed as indicated and that no questions are missing.*

FOR EXAMINERS USE ONLY

QUESTIONS	1	2	3	4	5	6	TOTAL
CANDIDATES SCORE							

*Answer **ANY FIVE** Questions*

1. a.Describe the first account of creation according to **(Gen 1-2-3)** **(7mks)**

b. State the meaning of the Biblical accounts of creation in **Genesis 1 and 2** **(7mks)**

c.Outline six lessons Christians learn about work from the Genesis stories of **creation** **(6mks)**

2. a Explain **seven** ways in which God's power is demonstrated in the deliverance of the Israelites from Egypt to the promised land **(7mks)**

b.Outline the reasons why the exodus was important to the Israelites **(7mks)**

c.In what ways are the Ten Commandments important to the life of Christians today **(6mks)**

3. a. Outline the circumstances that led to the Mt. Carmel contest. **(7mks)**

b.Give **six** conditions that made it difficult for prophet Elijah to stop idolatry in Israel **(6mks)**

c.State seven ways in which Christians enhance true worship of God today. **(7mk)**

4. a.Outline the importance of prophets in the Old Testaments **(8mks)**

b.Explain how God Would punish the people of Israel according to prophet Amos **(7mks)**

c.Identify FIVE problems which have resulted from the freedom of worship in Kenya today **5mks**

5. a.Explain how Nehemiah solved the problem he experienced as the Governor of Judah **(6mks)**

b.Outline the stages followed in the renewal of the covenant during the time of Nehemiah **(7mks)**

c.Give seven lessons that political leaders can learn from Nehemiah's leadership in Kenya today. **(7mks)**

6. a. Explain **FOUR** ways in which initiates were prepared for adult life in Tradition Africa Communities. **(8mks)**

b.Outline **FIVE** importance of African moral values **(5mks)**

c.Give SEVEN factors that have undermined the role of traditional African specialists **(7mks)**

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KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

CHRISTIAN RELIGIOUS EDUCATION

313/2

PAPER 2

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *This paper consists of six questions.*

b) *Answer **ANY FIVE** Questions in the answer booklet provided.*

c) *All questions carry equal marks*

d) *Candidates should check to ensure that all pages are printed as indicated and that no questions are missing.*

FOR EXAMINERS USE ONLY

QUESTIONS	1	2	3	4	5	6	TOTAL
CANDIDATES SCORE							

*Answer **ANY FIVE** Questions*

1. a. Outline prophet Jeremiah's prophecies about the messiah. **(Jeremiah23: 5-6)** **6mks**

b. Describe the events that led to the singing of Benedictus. **7mks**

c. Give **seven** reasons why Christians sing in a church service today. **7mks**

2. a. Narrate the raising of the widow's son at Nain **(Luke 7:11 -17)** **8mks**

b. Describe the incident in which Jesus calmed the storm. **(Luke 8:22-25)** **7mks**

c. State **five** lessons that Christians learn about Jesus from the raising of Jairu's daughter. **5mks**

3. a. **Why** did Jesus ride on a colt as He entered the city of Jerusalem. **6mks**

b. **Describe** the main events that followed the death of Jesus. **8mks**

c. **Give** the role that is played by Christians in a burial ceremony today. **6mks**

4. a. **Outline** peter's message about Jesus during the day of Pentecost. **7mks**

b. **Describe** the unity of believers as expressed in the image of the body of Christ. **8mks**

C. **How** do Christians express the New Testament teachings on unity of believers**.** **5mks**

5. a. **State** the importance of leisure **7mks**

b. **Explain seven** factors that have led to misuse of drugs in Kenya. **7mks**

c. **Give six** reasons why Christians condemn idleness in the society today. **6mks**

6. a. **Explain seven** ways in which Christians can contribute towards the maintenance of law and order in the society. **7mks**

b. **Give** reasons why it is important to have laws in a country. **7mks**

c. **What** is the role of Christians in the national elections. **6mks**

All the Best!

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KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

HISTORY AND GOVERNMENT

311/1

PAPER 1

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a)*This paper consists of three sections: A, B and C*

b) *Answer all questions in section A, Three questions in section B, and Two questions in Section C.*

c) *Answers to all questions must be written in the answer booklet provided.*

d) *Candidates should answer the questions in English.*

FOR EXAMINER'S USE ONLY

SECTION A 1-17	**SECTION B**				**SECTION C**			
	18	**19**	**20**	**21**	**22**	**23**	**24**	

SECTION A (25MKS)

1. Identify the branch of history that deals with control systems in the society. **(1mk)**

2. Identify **one** community in Kenya which belongs to the Southern Cushitic group. **(1mk)**

3. State one political function of the Oloibon among the Maasai during the 19th century. **(1mk)**

4. Apart from Fort Jesus, name the other monument built by the Portuguese at the Kenyan coast. **(1mk)**

5. State **two** ways in which Christianity undermined African culture. **(2mks)**

6. Identify the **main** reason for the formation of the inter-party parliamentary group (I.P.P.G) of **1997.** **(1mk)**

7. Identify **two** education commissions established in Kenya before independence. **(1mk)**

8. Mention the treaty that brought to an end the scramble for and partition of East Africa. **(1mk)**

9. State **one** way in which national integration has promoted economic development in Kenya. **(1mk)**

10. State two ways in which the rule of law is maintained in Kenya. **(2mks)**

11. Highlight **two** reforms that resulted from the Lyttleton constitution of 1954. **(2mks)**

12. Identify two pillars of Nyayo philosophy. **(2mks)**

13. Identify **two** situations when the office of the president may become vacant in Kenya. **(2mks)**

14. Identify **two** types of land ownership in Kenya. **(2mks)**

15. State the composition of the County Executive Committee. **(2mks)**

16. State **one** function of the supreme court of Kenya. **(1mk)**

17. Give **two** functions of the commission on revenue allocation in Kenya. **(2mks)**

SECTION B (45 MARKS)

18. a Identify **five** reasons that led to the migration of the Luo from their original homeland to the present day Kenya. **(5mks)**

b) Describe the political organization of the Maasai during the pre-colonial period. **(10mks)**

19. a) State **five** reasons for the Portuguese success in the conquest of the Kenyan coast. **(5mks)**

b) Explain **five** social effects of the Indian Ocean trade on the people of Kenya up to 1500AD. **(10mks)**

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20. a) Outline **five** challenges experienced by the European settlers in Kenya during the colonial period. **(5mks)**

b) Explain **five** consequences of colonial land policies on Africans in Kenya. **(10mks)**

21.a) State **five** challenges that have contributed to the high illiteracy levels in Kenya since independence. **(5mks)**

b) Discuss **five** factors that have facilitated industrialization in Kenya since independence. (**10mks)**

SECTION C (30 MARKS)

22.a) State three functions of the Independent Electoral and Boundaries Commission (IEBC). **(3mks)**

b) Outline **six** challenges that Kenya encountered in the search for a new constitution. **(12mks)**

23. a) State **three** objectives of devolution. **(3mks)**

b) Explain **six** functions of the National Assembly in Kenya. **(12mks)**

24. a) Identify three stages in the law making process in Kenya. **(3mks)**

b) Explain **six** reasons why it is important for the National government to prepare a budget annually in Kenya. **(12mks)**

All the Best!

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KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

HISTORY AND GOVERNMENT

311/2

PAPER 2

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a)*This paper consists of three sections: A, B and C*

b) *Answer all questions in section A, Three questions in section B, and Two questions in Section C.*

c) *Answers to all questions must be written in the answer booklet provided.*

d) *Candidates should answer the questions in English.*

FOR EXAMINER'S USE ONLY

SECTION A	SECTION B				SECTION C			
1-17	18	19	20	21	22	23	24	

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SECTION A (25mks)

1. Identify **one** branch of history. **(1mk)**

2. Name the tools made by Homo erectus during the second phase of the Stone Age period. **(1mk)**

3. Name **two** types of dwellings used by the early man during the Stone Age period. **(2mks)**

4. State **one** method of irrigation used in ancient Egypt. **(1mk)**

5. Identify **one** effect of the development of steamships. **(1mk)**

6. State **two** ways in which Agrarian revolution contributed to rural urban migration. **(2mks)**

7. State **two** disadvantages of using petroleum as a source of energy. **(2mks)**

8. State the **main** contribution of Dr. Christian Bernard in the field of medicine. **(1mk)**

9. Identify **two** ways in which direct democracy is practiced. **(2mks)**

10. Name the chartered company that administered Southern Rhodesia during the process of colonization. **(1mk)**

11. State the **main** reason why Samon Toure fought the French in the 19th century. **(1mk)**

12. Give **two** ways through which the attainment of independence in Ghana contributed to the liberation of other African countries from colonial rule. **(2mks)**

13. Name the political movement that led the Mozambicans in the struggle for independence. **(1mk)**

14. Name **two** member countries of Commonwealth who were not under the British colonial rule in Africa. **(2mks)**

15. State **two** ways in which the British government has ensured the independence of the judiciary. **(2mks)**

16. Identify the policy adopted by Tanzania during the Arusha Declaration of 1967. **(1mk)**

17. State **two** ways in which a person may become a member of the House of Lords in Britain. **(2mks)**

SECTION B (45MKS)

18.a) State **three** ways in which poor transport and communication has contributed to food shortages in third world countries. **(3mks)**

b) Explain **six** factors that led to Agrarian Revolution in the USA. **(12mks)**

19a) State **five** developments that have taken place in road transport since 1750AD. **(5mks)**

b) Explain **five** factors that have undermined the effectiveness of telecommunication services today. **(10mks)**

20. a) State **five** ways through which slaves were obtained during the Trans-Atlantic slave trade. **(5mks)**

b) Explain the challenges that faced Trans-Saharan traders. **(10mks)**

21.a) State **five** terms of the Berlin Conference. **(5mks)**

b) Explain the effects of the Shona Ndebele war (Chimurenga) of 1896-1897. **(10mks)**

SECTION C (30 MARKS)

22.a) Give reasons why united states of America was reluctant to join the first world war during the initial stages. **(3mks)**

b) Explain the challenges that faced the League of Nations. **(12mks)**

23.a) Identify **three** financial institutions of African Union (AU). **(3mks)**

b) Explain **six** economic challenges facing African Countries since independence. **(12mks)**

24. a) State **three** responsibilities of the state governments in the United States of America. **(3mks)**

b) Explain the duties of the Prime Minister in Britain. **(12mks)**

All the Best!

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KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

GEOGRAPHY

312/1

PAPER 1

TIME: 2¾ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *Write your name and index number in the spaces provided above*

b) *Sign and write date of examination in the space provided.*

c) *This paper consists of* ***TWO*** *sections A and B*

d) *Answer* ***ALL*** *questions in Section A. In section B answer* ***QUESTION 6*** *and any other* ***TWO.***

e) *Answer all questions in English.*

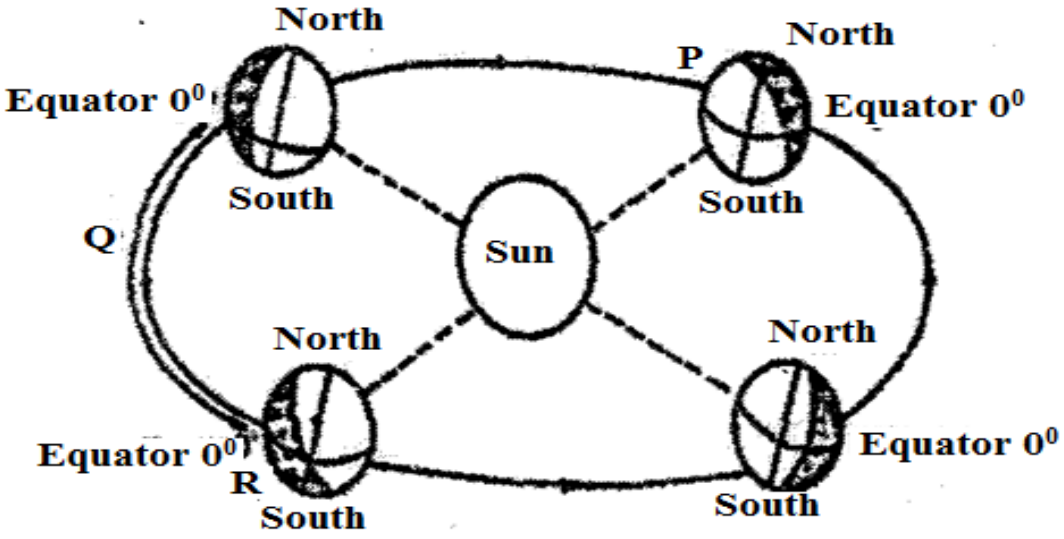
FOR EXAMINERS USE ONLY

SECTION	QUESTIONS	MAXIMUM SCORE	SCORE
A	1 – 5	25	
B	6	25	
		25	
		25	
	TOTAL SCORE	100	

SECTION A (25 MARKS)

1. (a) Give **two** evidences supporting the Nebula Cloud theory on the origin of the earth. **(2marks)**

(b) The diagram below represents the revolution of the earth.



Give **three** climatic conditions in Europe when the earth is in position R. **(3marks)**

2. (a) Give **two** forces that may cause faulting process. **(2marks)**

(b) Describe how a block mountain is formed through compressional forces. **(3 marks)**

3. (a) What is natural vegetation? **(2 marks)**

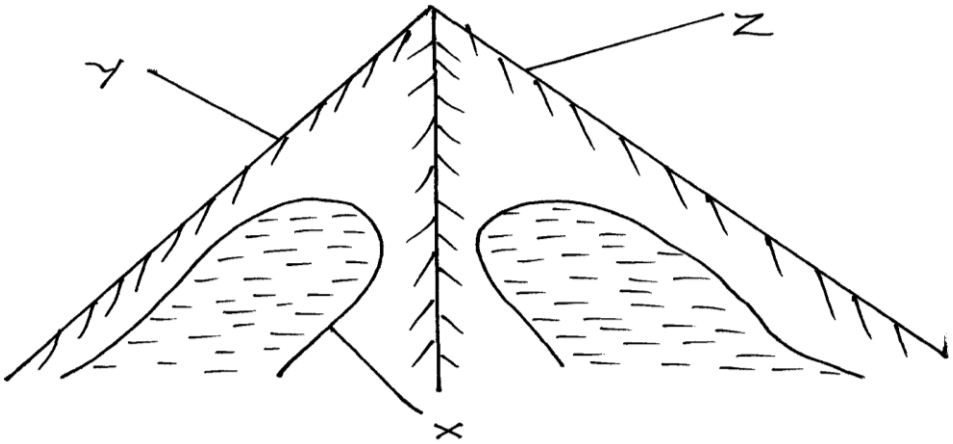
(b) Identify the temperate grassland in the following countries

- Argentina **(1mark)**
- South Africa **(1 mark)**
- Australia **(1 mark)**

4. (a) Name **two** types of tides. **(2marks)**

(b) State **three** conditions necessary for formation of a beach. **(3marks)**

5. (a) Study the diagram below and answer the questions that follow.



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(i) Name the features marked

X **(1 Mark)**

Y **(1 Mark)**

Z **(1 Mark)**

(ii) Identify **two** processes through which the feature marked X is formed. **(2 marks)**

SECTION B

Answer question 6 and any other two questions from this section.

7. Study the map of **Kisumu 1:50,000** (sheet 116/2) provided and answer the following questions.

a. i) Give the longitudinal extent of the area covered by the map? **(1 mk)**

ii) Name the three human-made features in the grid square 0193. **(3 mks)**

iii) Identify two methods used to show relief on the map. **(2 mks)**

iv) Calculate the area of Kisumu town. Give your answer in square kilometres**.** **(2 mks)**

v) Name two types of natural vegetation. **(2 mks)**

b. Draw a square 10cm by 10cm to represent the area enclosed by easting 00 and 10, and Northings 80 and 90. **(1 mk)**

On it mark and name the following

- Air photo principal point (04) **(1 mk)**
- Chinga market **(1 mk)**
- All weather road bound surface. **(1 mk)**
- River Ombeyi. **(1 mk)**

c. Describe the distribution of settlement in the area covered by the map. **(4 mks)**

d. Citing evidence from the map, give three economic activities carried out in the area by the map. **(6 mks)**

7. (a) What is climate **(2 marks)**

(b) (i) Explain **two** effects of climate change on the physical environment. **(4 marks)**

(ii) State **four** characteristics of the hot desert climate. **(4 marks)**

(c) Using a well-labelled diagram, explain the formation of anabatic winds. **(5 marks)**

(d) (i) Define micro climate. **(2 marks)**

(ii) Explain **four** human activities that can lead to aridity and desertification. **(8 marks)**

8. (a) Identify **two** types of earthquake waves. **(2 marks)**

(b) (i) Describe **two** ways in which the strength of an earthquake is measured. **(4 marks)**

(ii) State **three** human causes of earthquakes. **(3 marks)**

(c) Explain **four** effects of earthquakes on physical environment. **(8 marks)**

(d) Students from Karatina School carried out a field study of an area affected by earthquake.

(i) Identify **three** effects they noticed on human environment. **(3 marks)**

(ii) State **three** advantages of collecting information in the area using photographs? **(3 marks)**

(iii) Give **two** problems they are likely to experience **(2 marks)**

9. a) i) Distinguish between the river system and river interfluves **(2 marks)**

ii) Give **three** types of river erosion. **(3 marks)**

b) i) What is a waterfall? **(2 marks)**

ii) Give **four** types of waterfalls. **(4 marks)**

c) Describe each of the following drainage patterns.

i) Dendritic pattern **(4 marks)**

ii) Trellis pattern **(4 marks)**

d) Your class is required to carry out a field study on the lower course of a river.

i) Give **three** advantages of dividing the class into groups. **(3marks)**

ii) List **three** features the students would identify. **(3marks)**

10. a) i) Define the term 'leaching'. **(2 marks)**

(ii) State two factors that contribute to the leaching of soils. **(2 marks)**

b) (i) Explain how laterization (ferrallization) occur. **(6 marks)**

(ii) State t**hree** types of soils degeneration. **(3 marks)**

c (i) Explain **four** ways in which vegetation protects the soils and prevents soil erosion. **(8 marks)**

(ii) State **four** advantages of mulching soil using organic matter. **(4 marks)**

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KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

GEOGRAPHY

312/2

PAPER 2

TIME: 2¾ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *Write your name and index number in the spaces provided above*

b) *Sign and write date of examination in the space provided.*

c) *This paper consists of* ***TWO*** *sections A and B*

d) *Answer* ***ALL*** *questions in Section A. In section B answer* ***QUESTION 6*** *and any other* ***TWO.***

e) *Answer all questions in English.*

FOR EXAMINERS USE ONLY

SECTION	QUESTIONS	MAXIMUM SCORE	SCORE
A	1 – 5	25	
B	6	25	
		25	
		25	
	TOTAL SCORE	100	

SECTION A (25 MARKS)

*Answer **ALL** questions*

1. a) Define mining **(2marks)**

b)Give **three** ways in which minerals occur **(3marks)**

2a) Apart from tropical hardwood forests name two other types of natural forests **(2marks)**

b)State **three** characteristics of tropical hardwood forests that make it difficult to exploit **(3marks)**

3a.) Name two breeds of dairy cattle reared in Kenya **(2marks)**

b)State **three** human factors that favour dairy farming in Denmark **(3marks)**

4. (a) Differentiate between fishing and fishery **(2marks)**

b.)State measures used by the Kenya government to conserve marine fisheries **(3marks)**

5a.) State **three** physical factors which influence the location of settlements **(3marks)**

b.) Identify **two** functional zones of an ideal urban Centre **(2marks)**

SECTION B:

Answer Question 6 and Any Other Two Questions

6.) The table below shows tonnage of trade items in Kenya from various parts of the world in 2005 and 2006. Use it to answer question (a) and (b)

Place of origin	Tonnage per year	
	2005	2006
Europe	942000	985000
Africa	120000	154000
Asia	97000	128000
North America	94000	103000
Australia and New Zealand	19000	24000
All other countries	29000	41000
TOTAL	1,301,000	1,435,000

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(a.)(i)which continent had the highest increase in tonnage of trade items in Kenya between 2005 and 2006 **(2marks)**

ii.) Calculate the percentage increase in trade tonnage from Australia and New Zealand between 2005 and 2006 **(2marks)**

.iii) Draw a divided rectangle 15cm long to represent the tonnage of trade items in Kenya in 2006 **(8marks)**

b)(i.) State **two** advantages of using divided, rectangles to represent geographical data**(2marks)**

ii.) State **four** reasons why in 2005 and 2006 there was higher tonnage for trade items from Europe compared to that from Africa continent **(3marks)**

c.) Explain **four** ways through which the Kenyan government is promoting external trade **(8marks)**

7a)(i) State **three** physical conditions that favour sugarcane farming in Kenya **(3marks)**

ii) Apart from Bungoma name two counties where sugarcane is grown on large scale**(2marks)**

bi.) Describe the cultivation of sugarcane in Kenya **(6marks)**

ii.) Explain **four** problems facing sugarcane farming in Kenya **(8marks)**

c (i) Give **three** by-products from sugarcane **(3marks)**

ii.) Give **three** uses of sugar **(3marks)**

8 a i.) State **two** farming methods that assists in soil rehabilitation **(2marks)**

ii.) Give **two** methods that are used to drain swamps in Kenya **(2marks)**

b(i)Name **two** rivers that supply water to Mwea Tebere irrigation scheme **(2marks)**

ii.)Give the method of irrigation used in Mwea Tebere irrigation scheme **(1mark)**

c) Explain how the following factors influenced the establishment of Mwea Tebere irrigation scheme

- Soil **(2marks)**
- Government policy **(2marks)**

d (i) Describe the process of land reclamation in Mwea Tebere irrigation scheme **(4marks)**

ii.)State **four** characteristics of three the polders of Netherlands **(4marks)**

e.) Your class intend to carry out a field study on irrigation farming in Mwea Tebere irrigation scheme

i) Name **two** crops that you are likely to identify in the scheme **(2marks)**

ii.) State **two** reasons for the need of sampling the area of study **(2marks)**

iii.) Give **two** the after study activities you are likely to engage in **(2marks)**

9 (a)(i) What is industrialization? **(2marks)**

ii) Name a town in Kenya where each one of the following industries is located

oil refining **(1mark)**

Paper manufacturing **(1mark)**

Motor vehicle assembly **(1mark)**

Textile industry **(1mark)**

(b.) i) Give **five** reasons why the development of Jua kali industry is encouraged in Kenya**(5marks)**

ii.) Explain **four** factors that led to the development of iron and steel industry in the Ruhr region of Germany **(8marks)**

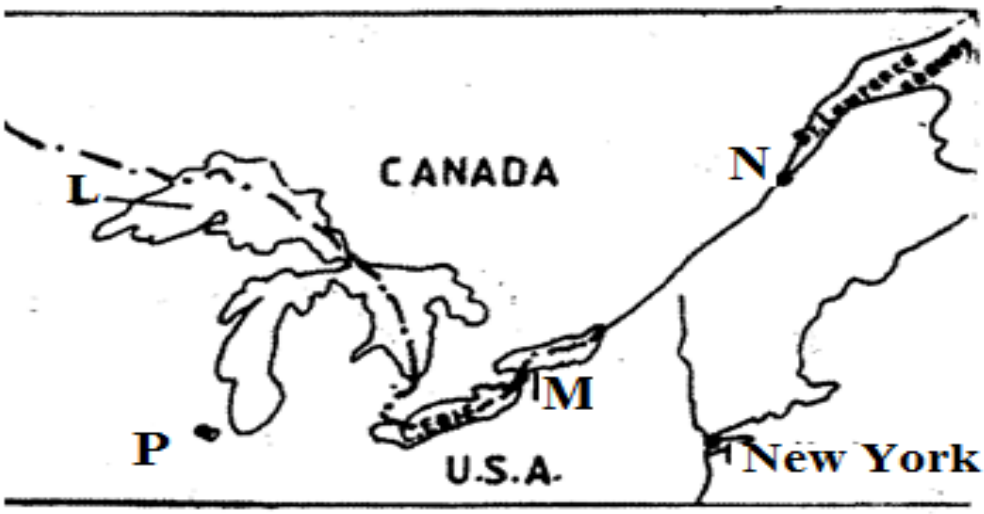
c.)Explain **three** causes of the decline in the textile industry in Kenya **(6marks)**

10. (a) Give **three** reasons why road transport is better developed than air transport is East Africa **(3marks)**

ii.) Name two international airports in Kenya **(2marks)**

b.) Explain **four** factors that have hindered the development of river transport in Africa**(8marks)**

c.) The diagram below shows the great lakes -St Lawrence seaway. Use it to answer question C, i) ii) and (iii)



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Name

i.) the port marked N and P **(2mark)**

ii.) the lake marked L **(1marks)**

iii.) the waterfall marked M **(1 mark)**

d.) Explain **four** benefits of the Great lakes -St. Lawrence's seaway to the economies of Canada and USA **(8marks)**

KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

ENGLISH

101/1

PAPER 1

(Functional writing, Cloze test and Oral skills)

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *Write your name and index number in the spaces provided above*

b) *Sign and write date of examination in the space provided.*

c) *Answer ALL questions in this paper.*

d) *Answer all questions in English.*

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1	20	
2	10	
3	30	
Total	60	

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QUESTION 1: FUNCTIONAL WRITING **(20mks)**

You are the secretary of a professional theatre group. You are to hold an annual general meeting **(A.G.M) on 20th September 2023** in Kenya Cinema Hall at 9:00am. The agenda of the day will be rehearsals for various plays, costumes to be used and payments of the members. This will be the third A.G.M. Write a notification of the meeting to members of the professional theatre group.

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QUESTION 2: CLOZE TEST. (10MKS)

Read the passage below and fill in the blank spaces with the most appropriate word.

The Ministry of Health (1)…… raised the alarm over rise in mother to child HIV/AIDS (2) ……in Nakuru county that has surpassed the national average. Health principal secretary (PS) Susan Mochache said Nakuru had 11 percent of mothers (3) ……with HIV, transmitting the virus to their babies during birth against the national (4) ……of nine percent. Ms. Mochache said the country had failed to (5) …… its target of five percent prevalence in mother child transmissions. The (6) …… came out during the "Ending Triple Threat" (7) ……against new HIV infections, teenage pregnancies and Gender Based Violence (GBV) in Narok on Friday. She (8) …… the spike in the HIV infections to the ARV treatments which make the disease "(9) ……threatening." "This disease has been with us for over thirty years now but it seems people have forgotten about (10) …… existence due to ARVs that make patients look healthier." Said Ms. Mochache.

QUESTION 3: ORAL SKILLS (30MKS)

i. Read the following poem and answer the questions that follow.

THE EAGLE

He claps, the crag, with crooked hands
Close to the sun in lonely hands
Rung'd with the azure world, he stands.
The wrinkled sea beneath him crawls
He watches from his mountain walls
And like a thunder bolt he falls.

a) Identify, illustrate and give the effectiveness of two sound devices. **(4mks)**

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b) If you are invited in a local radio station to recite the above poem, how would you ensure that your audience is not bored? **(3mks)**

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c) Which gesture would you use while recite line 1 of stanza 1 in the above poem? **(2mks)**

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ii. Underline the stressed syllable in the following words. ***(4mks)***

a) Pro.se.cute

b) Mark.book

c) Con.dition

d) Ap.proach

iii. Give a word that is pronounced the same as the following words. **(3mks)**

a) More-

b) Earn-

c) Talk-

iv. You are to attend an interview for your first job in a bank. You want to look presentable to create a good impression. What would you do ***before*** and ***during*** the occasion to achieve this? **(4mks)**

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v. Your friends are visiting you and they do not know your place. What factors would you consider when giving them directions? **(2mks)**

……

……

……

vi. A group of form 4 students is to hold a discussion on the "Traits of Helmer" in the play "A Doll's House." If the discussion is to be effective, what must members of group do?

a) Before the discussion. **(2mks)**

……

……

……

b) During the discussion **(2mks)**

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……

……

vii. Read the following dialogue between Carol and the principal and answer the questions that follow:

Principal : Welcome Carol, please have a seat.

Carol : (after sitting down) Sir, why did you call me?

Principal : I would like us to have a little chat about…

Carol : I have not done anything wrong; you can even ask Jedidiah, the class prefect, I was with her the whole day yesterday.

Principal : Actually, the reason I called you is because…

Carol : Speak louder! I can't hear you.

Principal : (in a louder voice) The reason why I sent for you, is because I have just received news from…

Carol : (shouting) Jacky! I knew that fool would not be trusted with a secret. Okay, it's true that Elijah and I sneaked out of school yesterday but we were hungry, really hungry. All we did was buy a loaf of bread then came back to school.

Principal : Carol, I wish you could listen to me. The reason why I called you here is because I have received news that you have won an award in the creative writing contest that you entered last year. I have a cheque here for you. However, you have raised a matter that I would love to attend to without further delay. Please go and call Elijah. By the time you get back I will have decided on the best punishment for you two.

a) How does the principal establish rapport with the student? **(2mks)**

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b) What evidence is there in the dialogue to suggest that Carol demonstrates lack of etiquette in her speech? **(2mks)**

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KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

ENGLISH

101/2

PAPER 2

(Comprehension, excerpt, poetry and grammar)

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *Write your name and index number in the spaces provided above*

b) *Sign and write date of examination in the space provided.*

c) *Answer ALL questions in this paper.*

d) *Answer all questions in English.*

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1. Comprehension	20marks	
2. Excerpt	25 marks	
3. Poetry	20 marks	
4. Grammar	15 marks	
Total	80 marks	

1. COMPREHENSION

Read the following passage and answer the questions that follow:

With every passing day, technology is overtaking our daily lives. Regardless of age, gender, career or economic status, smartphones are fast becoming ubiquitous.

More than two million Kenyans now own smartphones. Add the computer, tablet and other high- tech devices and your life is surrounded by a myriad gadgets which, to some, have become best friends.

Many of us rely on the phone to do everything, from saying" I love you" to "I'm quitting", from checking bank balances to selling stuff on OLX, from sharing photos and videos to streaming content on the web. We can carry out a plethora of daily tasks, right from the palms of our hands.

At the dinner table, it's the norm to constantly check for texts, e-mails, tweets, WhatsApp and Facebook updates. In a darkened movie hall, people are always multitasking on their phones while watching a movie. Some people even walk with the phone to the toilet and text and take calls from there.

Over dinner, in church, at a funeral service and even when carrying on face-to-face conversation, the smartphone is guaranteed to keep you in tune and in touch. It is common to see careless people texting while driving despite the fact that it is six times more dangerous to text and drive than to drink and drive.

Because of this over-dependence on the smartphone, many people suffer from the fear of losing it, even if only for a few minutes.

The "I must- have-my-phone-with-me-at-all-times" mindset has become such a real problem. There's now a name coined for the fear of being without phone: nomophobia -no-mo (bile) phone-phobia. Nomophobia is the fear of not being able to connect to the digital world by the means of mobile phone.

Although there is no ICD- 10 code (the required classification for any medical condition) yet for this specific affliction, researchers into the phenomenon describe nomophobic people as individuals who suffer from the anxiety of not having their mobile phone.

The anxiety commonly manifests itself when the person notices their smartphones has a low battery, no internet connection or if it is missing and one is therefore out of the loop with friends, family, work and the world. We are ever so busy with gadgets that we intrude into other people's space.

As our culture becomes ever more tech savvy and tech hungry, phone-free zones will become more and more common. Just like we have smoke-free zones in public places, we are starting to see quiet corners, where phone calls are restricted. It's because common courtesy is often thrown out the window when we're on the phone.

Some airports are now offering lounges that are cellphone free. Just like cigarettes, the mobile phone pendulum is beginning to swing as more and more people acquire nomophobic tendencies.

Considering the Smartphone' new abilities and capabilities they are now being used like digital 'Swiss Army Knives', replacing possessions like watches, cameras, books and oven laptops. Today the smartphone is capable of being an alarm clock, digital camera, and even television, which causes users to become heavily dependent on it.

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Psychologists advise that, while nomophobia could possibly never receive a diagnosis, it is certainly a rising trend. If you constantly find yourself using your smartphone at odd times, such as dinner table, while diving, or even in washroom, try your best to refrain from it and use it only when it is safe and not considered rude.

Setting limits for yourself and engaging with family and friends face-to-face can help calm the anxiety of continuously checking your phone.

QUESTIONS

a) Why is technology said to be overtaking our daily lives? **(2mks)**

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b) In point form, state the uses of a phone. **(4mks)**

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c) What are the bad habits that result from over-dependency on the phone as seen in the passage and how can they be managed? **(4mks)**

……

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d) When does anxiety manifest itself more with the use of a phone? **(3mks)**

……

……

……

e) According to the passage, why is there need for cellphone free zones in public places? **(1mk)**

……

……

f) Some airports are now offering lounges that are cellphone free. Rewrite using a question tag. **(1mk)**

……

……

g) What is the author's attitude towards smartphones? **(2mks)**

……

……

……

h) Give the meaning of the following words as used in the passage. **(3mks)**

i. Myriad

……

……

ii. Ubiquitous

……

……

iii. Plethora

……

……

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QUESTION 2. THE EXCERPT

Read the following excerpt and answer the questions that follow.

Nora: (*jumping up and going to him*) oh, dear, nice Doctor Rank, I never meant that at all. But surely you can understand that being with Torvald is a little like being with Papa –

(*enter MAID from the hall*)

Maid: if you please, ma'am. (*Whispers and hands her a card*)

Nora: (*glancing at the card*) oh! (*Puts it into her pocket*)

Rank: is there anything wrong?

Nora: No, no, not in the least. It is only something – it is my new dress –

Rank: what? Your dress is lying there.

Nora: Oh, yes, that one: but this is another. I ordered it. Torvald mustn't know about it –

Rank: Oho! Then was the great secret.

Nora: Of course. Just go in to him: he is sitting in the inner room. Keep him as long as –

Rank: Make our mind easy; I won't let him escape (*goes into HELMER'S room*)

Nora: (*to the MAID*) And he is standing waiting in the kitchen?

Maid: Yes; he came up the back stairs.

Nora: But didn't you tell him no one was in?

Maid: Yes, but it was no good.

Nora: He won't go away?

Maid: No; he says he won't until he has seen you, ma'am.

Nora: Well, let him come in – but quietly. Helen you mustn't say anything about it to anyone. It is a surprise for my husband.

Maid: Yes, ma'am, I quite understand. (*exit*)

Nora: This dreadful thing is going to happen! It will happen in spite of me! No, no, no, it can't happen – it shan't happen!

QUESTION 2 (25 marks)

a) Place this excerpt in its immediate context **(3 mks)**

……

……

……

……

……

b) Identify and illustrate the character trait of the following characters **(4 mks)**

i)Rank

……

……

……

ii) Nora

……

……

……

c) Who is in the kitchen and why has he come? **(3mks)**

……

……

……

……

d) Identify and illustrate the dominant theme in the excerpt. **(2mks)**

……

……

……

e) **"……** being with Torvald is a little like being with papa" what does Nora mean by this statement? **(2mks)**

……

……

……

f) Explain an incidence of dramatic irony from the excerpt. **(2mks)**

……

……

……

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g) Why is Nora quick to usher Dr. Rank out of the room? **(2 mks)**

……

……

……

h) "This dreadful thing is going to happen. "**Rewrite in reported speech**. **(1mk)**

……

……

i) Explain the dreadful thing that Nora fears might happen? **(2 mks)**

……

……

……

j) Explain the meaning of the following expressions as used in the excerpt. **(3 mks)**

i) Make your mind easy –

ii) I won't let him escape –

iii) It was no good –

iv) Dreadful -

QUESTION 3: POETRY

Read the following poem and answer the questions that follow.

My parents

My parents kept me from children who were rough.
Who threw words like stones and who wore torn clothes
Their thighs showed through rags. They ran in the streets –
And climbed cliffs and stripped by the country streams

I feared more than tigers their muscles like iron
Their jerking hands and their knees tight on my arms.
I feared the salt Coarse pointing of those boys
Who copied my lisp behind me on the road.

They were lithe, the sprang out behind hedges
Like dogs to bark at my world. They threw mud
While I looked the other way, pretending to smile
I longed to forgive them, but they never smiled.

QUESTIONS

1. Whom did the speaker's parents try to protect him from and why? **(3mks)**

……
……
……
……
……

2. What happens in stanza two? **(2mks)**

……
……
……
……

3. How did the rough children treat the speaker? **(2mks)**

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……
……
……

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4. Describe the attitude of the speaker towards the rough children. **(3mks)**

……

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……

5. Describe the character of the speaker as depicted in the poem. **(2mks)**

……

……

……

6. Identify a figure of speech used in the poem. **(2mks)**

……

……

……

7. Highlight the irony in the last stanza of the poem. **(2mks)**

……

……

……

8. What is the theme of the poem? **(2mks)**

……

……

9. Give the meaning of the following words as used in the poem. **(2mks)**

i) Jerking

……

ii) Lithe

……

QUESTION 4: GRAMMAR

a. Rewrite the following sentences as instructed. **(3mks)**

i) I have some duties. I must perform them. (Combine into one sentence using an infinitive)

……

ii) He was tired of play. He sat down to rest. (Combine into one simple sentence using a participle).

……

iii) Do not be a borrower. Do not be a lender. (Combine into one sentence using a suitable conjunction)

……

b. Fill in the following blanks with the correct form of the words in brackets. **(3mks)**

i) Their bodies had suffered ……as a result of malnutrition. (Contort)

ii) The manager made several…… on the original invoice. (Delete)

iii) ……..beliefs are discouraged in urban areas. (Sect)

c. Supply the statements below with appropriate question tags. **(2mks)**

i. Nobody came-

ii. You'd rather play than work-

d. Correct the error in the following sentences. **(2mks)**

i. I am not understanding what you are talking about.

……

……

ii. Please don't dirtify the class.

……

……

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e. Complete the following sentences with a phrasal verb starting with the word in brackets. (3mks)

i. She looked carefully at the document but could not…….. what it meant. (make)

ii. The teacher couldn't……. the students bad behavior. (put)

iii. Please ……that all the chairs are in good condition. (see)

f. Explain the meaning of the following sentences . (2mks)

i. Peter was executed like a murderer

……

……

ii. Peter was executed as a murderer.

……

……

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KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

ENGLISH

101/3

PAPER 3

(Creative Composition and Essays based on Set Texts)

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

- *Answer **THREE** questions only.*
- *Question **one and two** are compulsory.*
- *In question Three**,** choose **one question from the book you have prepared on.***
- *Each of your essays must not exceed **450 words.***
- *Write legibly and neatly.*

FOR EXAMINER'S USE ONLY

QUESTION	MAXIMUM SCORE	STUDENT'S SCORE
1.	20	
2.	20	
3.	20	
Total	60	

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QUESTIONS

1. Imaginative composition (Compulsory) (20 marks)

Either

a). Write a composition beginning: I had not seen the object before. It was not there last night. I carefully…

OR

b) Write a composition, supporting or opposing this statement: "Both girls and boys have equal rights to their parents' property**."**

2. COMPULSORY ESSAY. Novel: *Blossoms of the Savannah*. *(*20 marks)

"No amount of challenge can prevent one who has determination from getting what theywant in life." Referring closely to Resian in H.R. Ole Kulet's novel *Blossoms of the Savannah*, write an essay in support of the statement.

3. OPTIONAL SET TEXTS

EITHER

a) Short story: *A Silent Song and Other Stories* by Godwin Siundu (20 marks)

"War causes a lot of harm and thus should be avoided at any cost." Validate this statement basing your illustrations from Chimamanda Adichie's '***Ghosts***'

Or

b) Play: *Inheritance* by David Mulwa (20 marks)

Write an essay to show how citizens suffer due to bad leadership. Base your arguments on David Mulwa's *Inheritance***.**

Or

c) Novel: *An Artist of the Floating World* by Kazuo Ishiguro. (20 marks)

'*An Artist of the floating* world is a Novel about intergenerational conflicts' Discuss.

UTABIRI WA KCSE 2023

(MFUATANO WA MAKADIRIO)

102/1

KISWAHILI

KARATASI YA 1 (INSHA)

MUDA: SAA 1¾

JINA……

SHULE…… SAHIHI……

NAMBARI YA USAJILI…… MKONDO……

Cheti cha Kuhitimu Masomo ya Sekondari (KCSE)

MAAGIZO

- *Andika insha mbili.*
- *Swali la kwanza ni la lazima.*
- *Kila insha isipungue maneno 400.*
- *Chagua insha nyingine moja kutoka kwa hizo tatu zilizosalia .*
- *Kila insha ina alama 20.*
- *Kila insha iandikwe kwa lugha ya Kiswahili.*

KWA MATUMIZI YA MTAHINI PEKEE

SWALI	ALAMA
1	
JUMLA	

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1. <u>LAZIMA</u>

Umekuwa msaidizi wa mbunge wa eneobunge la Mfanisi. Ungependa mbunge huyu apate nafasi ya kuwa mbunge wa eneobunge hili tena. Andika wasifu utakaochapishiwa wanaeneobunge ukieleza mchango wake katika sekta mbalimbali za eneobunge hilo.

2. Eleza namna wananchi wanavyoonyesha uzalendo kwa nchi yao.

3. Andika kisa kitakachoafiki maana ya methali: Mwota mchana hukosa mali na wana.

4. Andika insha itakayoanza kwa maneno yafuatayo.

Mahakama ilikuwa imejaa furifuri. Jamaa na marafiki walikuwepo. Nilisimama kizimbani. Mashahidi walikuwa wamekamilisha kutoa ushahidi wao. Jaji aliinua uso wake akaniangalia kwa ukali kisha**...**

UTABIRI WA KCSE 2023

(MFUATANO WA MAKADIRIO)

102/2

KISWAHILI

KARATASI YA 2 (LUGHA)

MUDA: SAA 2 ½

JINA……

SHULE…… SAHIHI……

NAMBARI YA USAJILI…… MKONDO……

Cheti cha Kuhitimu Kisomo ya Sekondari (KCSE)

MAAGIZO

(a) *Andika jina na nambari yako katika nafasi ulizoachiwa hapo juu.*

(b) *Jibu maswali yote.*

(c) *Majibu yaandikwe katika nafasiulizoachiwa katika kijitabu hiki cha maswali.*

(d) *Majibu yote lazima yaandikwe kwa lugha ya Kiswahili.*

KWA MATUMIZI YA MITAHINI PEKEE

SWALI	UPEO	ALAMA
1	15	
2	15	
3	40	
4	10	
JUMLA	80	

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1. SEHEMU YA A: HAMU YA HAMO

Hamo alirauka majogoo kuanza maandalizi ya mapema. Hakutaka kukosa sherehe ya sikukuuu ya Jamhuri kama alivyokuwa amekosa ile ya mashujaa. Siku hiyo alipofika kwenye lango kuu la uga ambako sherehe zilitendeka, askari mmoja mwenye kofia nyekundu, miwani myeusi na bunduki kifuani alimnyoshea kidole na kumwambia, “Kwenda nyumbani kijana . Unafika hapa baada ya rais kuingia kwani wewe ni rais wa Marekani?” swali hilo lilimsumbua kwa siku kadhaa, akawachukia maafisaa wa usalama, na likamtwanga kwa nguvu sana asubuhi ya Jamuhuri. Alimaliza maandalizi na kupiga milundi uwanjani.

“Una kitambulisho?” Hamo aliona ajibu kwa kukitoa na wakati huu afisaa wa usalama alimruhusu aingie bila maswali zaidi. “Huyu amechoka sana. Hata sare yake ya bluu imechujuka jamani!” Hamo alijiambia akiingia uwanjani. Uwanja ulikula watu bila kushiba, kwani kulikuwa na mapengo ya hapa na pale kama kinywa kilichong’oka meno. Bw. Hamo alitafuta nafasi karibu na jukwaa lakini katika sehemu iliyotengwa “wananchi wa kawaida.” Hayo maneno matatu yalikuwa yamemsumbua Hamo akijiuliza mbona wale wengine walijiona wasiokuwa wa kawaida. Hata, hivyo, hakutaka fikra hizo ziboronge hamu yake ya siku.

Basi, bendi ya wanajeshi ilisikika na kiongozi wao akawa na fimbo fulani aliyoizungusha mkononi hapa na pale na wakati mwingine kuirusha juu, akakimbi kuidaka kabla ya kugusa ardhini. Vikosi vitatu vya wanajeshi waliovalia sare za rangi tatu tofauti: nyekundu, bluu na nyeupe viliingia kwa kupendeza. Kila mwanajeshi alikuwa ameishika bunduki yake kwa mkono wa kulia, na kuurusha mkono wa kushoto mbele na nyuma kana kwamba hawakupendezwa na mikono yao, ila mikono hiyo ilirushwa kwa pamoja na kuunda safu nzuri, ungedhani mikono hiyo iliunganishwa na kufungwa. Kiongozi mmoja aliyekuwa na kitara mkononi alisimama katikati na kupaaza sauti kubwa ilyosikika kanakwamba alikuwa na kipaza sauti. Kwa pamoja wanajeshi waliichapa miguu yao chini kwa nguvu kana kwamba wakimuua nyoka na kutulia tuli! Haya yalimshangaza Hamo kwani alisikia ni kama kiongozi alilia “Hooooo ho!

Muda ulizidi kuyoyoma na punde si punde rais aliingia kwenye gari lililompa uwezo wa kuwasalimu wananchi. Bw. Hamo alipiga kelele kama wananchi wengine na rais alipopita karibu naye, Bw. Hamo alimwambia “Nakupenda rais!” Rais alitabasamu na kuangalia upande huo huku akiweka viganja vyake pamoja na kuinua juu, ishara ya kwamba, “tu pamoja” , jambo lililomfurahisha Hamo aliyetabasamu nusura aonyeshe magego yake. Burudani iliendelea pale na wanajeshi wakapendeza kwa vioja na viroja vyao; mara waangalie mbele, mara wapinduke ghafla kama walioumwa na siafu, mara wasukumane mikono na kujipanga vizuri zaidi, mara wawe wawili wawili, waunde ruwaza za kupendeza; haya yote baada ya kilio cha yule kiongozi ambacho Hamo hakusikia kikibadilika pahubwa, kwani kilicheza “Hoooho” na maneno mengine ambayo Hamo aliamini kuwa hayakuwa kwa mojawapo ya lugha alizozielewa.

Kilele cha siku kilikuwa hotuba ndefu ya rais ya Kiingereza na japo Hamo hakung’amua chochote, alihisi kuwa ilikuwa siku iliyofana, na kwa kuwa rais alimjibu salamu zake kwa heshima kubwa, alijiona kuwa shujaa. Muhimu zaidi alikula yamini kuwa mwanajesi, ambaye ama awe Yule wa “hooooho!” au Yule wa kurusha na kudaka fimbo kabla ifike ardhini.

MASWALI

a) Mbona Hamo aliamka wakati wa majogoo **(alama 2)**

……

……

……

b) Tofautisha maafisa wawili waliotajwa kwenye kifungu kihulka. **(alama 4)**

……

……

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……

……

c) Eleza sifa tatu za rais kulingana na taarifa. **(alama 3)**

……

……

……

……

……

d) Mbona Homa alikuwa yamini kuwa mwanajesi. **(alama 1)**

……

……

e) Thibitisha suala la utabaka kwa kurejelea kifungo. **(alama 1)**

……

……

f) Toa mfano mmoja wa matumizi ya mbinu ya mbinu ya uhuishaji kutoka kwenye kifungo.**(ala 1)**

……

……

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g) Eleza maana ya maneno haya kulingana na taarifa: **(alama 3)**

i) uga

……

……

ii) boronga

……

……

iii) kula yamini

……

……

2. <u>UFUPISHO</u>

Soma kifungo kifuatacho kisha ujibu maswali yanayofuata.

Mirundiko ya taka pamoja na utaratibu usiofaa wa uzoaji wake ni tisho kubwa kwa siha ya umma pamoja na mazingira . Hii ni kwa kuwa taka huwa ni makaazi ya wadudu na wanyama waharibifu kama nzi, mbu, kombamwiko na panya ambao hueneza magonjwa na kuharibu vitu vyenye dhamani. Maji taka nayo, pamoja na mifuko ya sandarusi huwa mastakimu ya wadudu na virusi vinavyoleta magonjwa mbalimbali.

Mifuko ya sandarusi ina madhara kwa kuwa huziba mitaro ya maji na kuzuia upitaji wa maji. Madhara hutokeza wakati wa mvua za ngarika. Maji haya husababisha mafuriko ambayo huleta hasara ya mali na wakati mwingine ya uhai. Fauka ya haya, mifuko hii huwasakama tumboni wanyama sio wa nyumbani tu, bali wa porini na majini.

Kwa sababu ya hatari zitokanazo na taka, pana haja kutafuta njia na teknolojia ya kwanza kukabiliana na tatizo hili ili kuyatunza mazingira na siha ya umma. Njia mojawapo ya kufanya hivi ni kuelimisha na kuhimiza umma kuwa na uangalifu katika matumizi ya bidhaa na raslimali ili kupunguza uzalishaji wa taka. Matumizi ya bidhaa kwa njia ya ubadhirifu huwa chanzo cha uzalishaji wa taka kwa wingi. Kwa mfano, maji ni raslimali ambayo imeendelea kutumiwa kwa ubadhirifu na hiyo uzalishaji maji taka kwa wingi. Raslimali hii inaweza ikatumiwa kwa njia endelevu. Kwa mfano, badala ya kutumia bafu ya nyumbani kuoga mtu anaweza kutumia maji ya karai.

Watu wengi huchukulia taka kuwa kitu kisicho na manufaa yoyote. Hawajui kuwa kwa kutumia teknolojia endelezi, taka nyingi zinaweza zikageuzwa na kuwa na manufaa mengi. Vijana wadogo sehemu za mashambani wanahitaji pongezi kwa kuwa na utambuzi huu. Wengi, kwa kukosa hela za kununulia mipira ya viwandani, hutumia teknolojia endelezi ambapo taka hugeuzwa na kuwa na manufaa.

Baadhi ya wananchi wenye ubunifu nao wameanzisha miradi ya kuzoa takataka kutoka majumbani mwa watu kwa ada kisha huzipeleka taka hizi kule zitakakobadilishwa ili ziwe na manufaa. Mifuko

na mabaki ya sandarusi hupelekwa katika viwanda vinavyotengeneza bidhaa za plastiki kama matangi, mitungi, sapatu na champali. Taka hizi huwa malighafi ya kutengeneza bidhaa nungine.

Taka za chupa na chuma nazo huuzwa katika viwanda vinavyozigeuza kuwa na manufaa tena. Taka za karatasi hutumiwa kutengeneza bidhaa kama vitabu, katoni, shashi za chooni na magazeti.

Taka zinaweza pia kugeuzwa kuwa zenye faida kwa kuzitumia kufanyia mboji. Ni muhimu kutambua kuwa si kila aina ya taka inaweza kutumiwa hapa. Taka zinazoweza kufanyiwa mboji ni zile ambazo huoza kwa haraka, kama vile: mabaki ya vyakula mboga na matunda. Kwa sadfa, hizi ndizo taka zinazozalishwa zaidi siku na hasa sehemu za mjini katika maeneo ya biashara kama mikahawa na hospitali. Mtu akiwa na nafasi anaweza kuchimba shimo ambalo atafukia taka ili kutengeneza mbolea. Hii ni njia isiyodhuru mazingira na yenye manufaa kemkem. Kwanza, kugeuza taka ambayo inaweza kuwa hatari na kuifanya iwe yenye manufaa. Kwa hivyo hutatua matatizo ya kiafya yanayoweza kutokana na mirundiko ya taka. Mchanga nao hufaidika kupata virutubishi. Mbolea kama hii inaweza ikatumika kukuzia mboga au maua katia bustani.

Maji taka, hasa yanayotumika kuosha vyombo, nayo yanaweza kutumika kunyunyizia mashamba madogo ya mboga au bustani za maua. Maji taka haya yanahitaji kutayarishwa njia mahususi ya kuyaelekeza katika mashamba haya baada ya kutumiwa.

Anglalabu watu wengi wana mazoea ya kuchoma taka. Ni kawaida kupata matanuri ya kuchomea taka katika baadhi ya mitaa, shule na hospitali. Badala ya kupoteza moto huu bure bilashi, inawezekana pakawekwa birika kubwa au tangi la chuma ambalo litatuma moto huo kuchemsha maji. Maji haya yanaweza yakatumiwa katika shughuli za nyumbani.

Hata hivyo ni muhimu kukumbuka kuwa kuna baadhi ya taka ambazo ni hatari na huenda zisigeuzwe ili kutumika kwa njia yenye faida. Taka hizi ni kama vile mikebe au vifaa vingine vyenye kubeba sumu au dawa hatari. Ni bora kuvitupa vifaa hivi katika mashimo marefu au vyoo vya mashimo.

Kwa vyovyote vile, si jambo muhali kwa watu popote wanapoishi kulinda siha yao pamoja na kutunza mazingira. Ulinzi na utunzaji huo huhitaji uangalifu mkubwa katika utupaji taka.

a) Fupisha ujumbe wa aya tatu za kwanza kwa maneno 100. (alama 8, 1 utiririko)

Matayarisho

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Nakala safi

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b) Kwa kurejelea aya ya tano hadi ya tisa, onyesha manufaa ya taka (maneno 80)

(alama 7, 1 utiririko)

Matayarisho

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Nakala safi

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3. **<u>MATUMIZI YA LUGHA</u>**

a) Unda maneno yenye muundo wa sauti zifuatazo: **(alama 2)**

i) King'ong'o cha kaakaa laini, irabu ya nyuma wastani, irabu ya chini kati.

……

……

ii) Kikwamizo hafifu cha koromeo, irabu ya nyuma juu , kiyeyusho cha kaakaa gumu, irabu ya nyuma kati

……

……

b) Andika neno moja lenye silabi za muundo ufuatao. **(alama 1)**

irabu, konsonantii +konsonanti, irabu+konsonanti, irabu

……

……

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c) Bainisha matumizi ya ‘ki’ katika sentensi ifuatayo: **(alama 2)**

Akiendelea kukichezea, kichuma chake ki motoni.

……

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……

d) Unda vitenzi kutokana na nomino zifuatazo **(alama 2)**

i) hasidi-

……

ii) tafakuri-

……

e) Tunga sentensi yenye mpangilio wa maneno ufuatao: **(alama 2)**

nomino katika ngeli ya U-zi wingi.

Kivumishi cha pekee

Kitenzi halisi

Kielezi cha kiasi

……

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f) Ainisha viambishi: **(alama 2)**

haujiki

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g) Tumia mzizi –ny- kukamiliisha sentensi hii **(alama 1)**

Miti ya msitu huo ime ……. mvua katika jimbo hili

……

……

h) Tumia mzizi '-ema' katika sentensi kama: **(alama 3)**

i) kivumishi

……

ii) kielezi

……

iii) nomino

……

i) Mchezaji alipoona kiyu* aliya gugumia maji

Kando na matumizi haya ya kinyota, taja matumizi mengine mawili ya kiakifishi hiki. **(alama 2)**

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j)Tunga sentensi ya swali ukitumia kiwakilishi nafsi ambata nafsi ya pili wingi **(alama2)**

……

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k) Andika sentensi hii iwe katika usemi wa taarifa

"Nyinyi nyote mkipita nitawanunulia mikate miwili kesho jioni, mwalimu alituambia**. (alama 2)**

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l) Andika kinyume cha sentensi hii:

Tajiri wengi walikashifiwa baada ya kuhamia msituni **(alama 2)**

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m) Ainisha shamirisho na chajizo: **(alama 4)**

Mwanamke mzee alipikiwa chai tamu kwa sufuria kubwa leo asubuhi na mjukuu wake.

n) **Tunga** sentensi yenye muundo ufuatao: **(alama 2)**

$\boldsymbol{KN(\overline{S}) + KT\left(t + KN_2\,(N + V)\right)}$

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o) Mohamed alifuzu mtihani huo vizuri kwa sababu alisoma kwa bidii (maliza kwa mtihani huo vizuri) **(alama 1)**

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……

p) Changanua sentensi ifuatayo kwa kielezo cha matawi.

Lilikuwa limelimwa na wakulima hodari sana. **(alama 4)**

q) **Andika** ukubwa wingi wa sentensi hii

Mtoto alimuua nyoka mdogo kwa kumpiga kichwani **(alama 1)**

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r) Ainisha virai vinne katika sentensi hii:

Vipya kabisa vilivyoagizwa jana sokoni vitanunuliwa na mtoto wa Juma **(alama 2)**

……

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……

s) Tunga sentensi moja kionyesha maana mbili za neno 'funza' **(alama 2)**

……

……

……

t) Mkungu ni kwa ndizi, koja ni kwa …….. na…….. ni kwa mboga . **(alama 1)**

4 ISIMUJAMII (ALAMA 10)

a) Terry: Liandikwalo ndilo liwalo. "Since when has man ever changed his destiny?"

i) Tambua mtindo wa lugha uliotumiwa na mzungumzaji wa maneno haya. **(alama 1)**

……

……

ii) Eleza sababu nne zinazopelekea wazungumzaji kutumia mtindo huu. **(alama 4)**

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b) Wewe ni mfanyikazi katika kiwanda cha kutengeneza mavazi. Eleza sifa tano za lugha utayotumia unapowasiliana na wafanyakazi wenzako. **(alama 5)**

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HUU NDIO UKURASA WA MWISHO KUPIGWA CHAPA!

UTABIRI WA KCSE 2023

(MFUATANO WA MAKADIRIO)

102/3

KISWAHILI

KARATASI YA 3 (FASIHI)

MUDA: SAA 2½

JINA……

SHULE…… SAHIHI……

NAMBARI YA USAJILI…… MKONDO……

Cheti cha Kuhitimu Masomo ya Sekondari (KCSE)

MAAGIZO:

a) Andika jina lako na nambari yako ya mtihani katika nafasi ulizoachiwa hapo juu.
b) Tia sahihi yako kisha uandike tarehe ya mtihani katika nafasi ulizoachiwa hapo juu.
*c) Jibu maswali **manne** pekee.*
*d) Swali la **kwanza** ni la **lazima.***
e) Maswali hayo mengine matatu yachaguliwe kutoka sehemu nne zilizobaki; yaani; Riwaya, Tamthilia, Ushairi na Hadithi Fupi.
*f) Usijibu maswali **mawili** kutoka **sehemu moja**.*

KWA MATUMIZI YA MTAHINI PEKEE.

Swali	Upeo	Alama
1	20	
	20	
	20	
	20	
Jumla	80	

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SEHEMU A: FASIHI SIMULIZI

Lazima

1. *Soma utungo ufuatao kisha ujibu maswali*

Kila kukicha mashaka
Ni kero hili si huba
Mimi pendo la viraka, heri demu la mkoba
Ingawa mno nataka, kuishi nawe muhiba
Pendo viraka viraka
Litanishinda kuziba

Kamwe sitoshughulika
Nawaje wenye kuziba
Viumbe wanosifika,kwa fedha, chuma na shaba
Walostaarabika, si mimi wa tobatoba
Pendo viraka viraka
Litanishinda kuziba

Naapa sitojitweka
Limenichosha si haba
Nasomba vyangu viraka, nitie kwenye mkoba
Sikuye ya kuzinduka, mjinga hawi juba
Pendo viraka viraka
Litanishinda kuziba

(a) Huu ni wimbo wa aina gani? Thibitisha. **(alama 2)**

(b) Eleza sifa **tatu** za nafsinenewa katika wimbo huu **(alama 3)**

(c) Bainisha toni ya utungo huu. **(alama 1)**

(d) Fafanua mbinu **nne** ambazo nafsineni itatumia kufanikisha uwasilishaji wake. **(alama 4)**

(e) Eleza mambo ambayo yatapotea wimbo huu ukiandikwa. **(alama 6)**

(f) Ingawa nyimbo zina faida kwa wanajamii, zina madhara pia.Yaeleze madhara manne.**(alama 4)**

SEHEMU B: RIWAYA

A. Matei; *Chozi la Heri*

Jibu swali la 2 au 3

2. Jadili mchango wa wasomi katika maendeleo ya kijamii kwa kurejelea 'Chozi la Heri'**.(ala 20)**

Au

3. "Kipi kinachompa mama uyabisi wa moyo hata akawaacha wanawe? Umu alijiuliza Fikira za kila aina zilijitoma akilini mwake, akajiona akikabiliwa na tatizo kama la ndugu zake. Alijiona akichukuliwa danadana na majanaume katika madanguro mbalimbali. Wazo hili lilimtia kigegezi, malaika yakamsimama na mwili kumsisimka. Katika hali hii, alifikia uamuzi wa mkataa, kwamba hapo hapamweki tena, atatanga na njia aone jaala itakapomfikisha. "Nitapigana kwa jino na ukucha kuulinda utu wangu. Nitatafuta haki ilikojificha," alisema Umu.

(a) (i) Fafanua aina **tatu** za taswira katika dondoo hili. **(alama 3)**

(**ii)** Eleza vipengele vingine **vitatu** vya kimtindo vinavyojitokeza katika dondoo hili. **(alama 3)**

(b) Kwa kutolea mifano **kumi na minne** riwayani ,onyesha jinsi wahusika mbalimbali walivyopigana kwa jino na ukucha kuulinda utu wao na wa watu wengine. **(alama 14)**

SEHEMU YA C: TAMTHILIA

Timothy Arege: *Bembea ya Maisha*

Jibu swali la 4 au 5.

4. Ulevi. Ulevi mwanangu! Gongo liliyamega maadili yake kimyakimya na taratibu uwajibikaji ukawa umemponyoka na kuteleza kama sabuni ya povu jingi na kumwacha na kisomo chake tu.

a) Eleza muktadha wa dondoo hili. **(alama 4)**

b) Fafanua mbinu **nne** za kimtindo zilizotumiwa katika dondoo hili. **(alama4)**

c) Eleza sifa **nne** za anayerejelewa . **(alama 4)**

d) Jadili umuhimu wa mandhari ya mazungumzo haya. **(alama8)**

AU

5. a)Mwandishi wa tamthilia ya Bembea amefaulu kuchora mpaka uliopo kati ya usasa na ukale.Jadili kwa kutoa hoja **kumi.** **(alama 10)**

b)Kuishi mijini kuna adha chungu nzima.Jadili kwa kurejelea tamthilia nzima. **(alama 10)**

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SEHEMU D: USHAIRI

Jibu Swali la 6 au 7.

6. Nduguni na dada zangu,nisikieni wendani
Neleze ya moyo wangu,yalo yaniumizani
Kuhusu ya ulimwengu,ng'onzi chui jifanyani
Wanasiasa ndu zangu,wanazo hila Chekwa.

Kila siku twahadawa, kura zetu kuzitaka
Vitu duni tunapewa,twandanganywa kila mwaka
Kwa wepesi shawishiwa,hatimaye sahaulika
Wanasiasa ndu zangu wanazo hila Chekwa

Watwambia shida zetu,kwazo siku tatatua
Watwambia kila kitu,kitakuja tengenea
Maisha ya kila mtu ,waamba tanawiria
Wanasiasa ndu zangu,wanazo hila Chekwa

Wao huwa karibuni,kutwahidi nao moyo
Hali zetu twambiwani,taboreka bila wayo
Kila kitu waahidini, tafakuri bila nayo
Wanasiasa ndu zangu .wanazo hila Chekwa

Lao ajabu ni kuwani, kama lubwi hugeuka
Kiwapandisha ngazini, daima hutucheka
Wetu ujinga nambani,hutufanya kusumbuka
Wanasiasa ndu zangu, wanazo hila Chekwa

Wakipata na migwisho, waoni tausi huwa
Maringo yaso na mwisho, nyoyoni huwajawa
Wanaamba kwa vitisho, wa viongozi kwa kuwa
Wanasiasa ndu zangu, wanazo hila Chekwa

Ndu zangu tuzindukeni, twondokee zao hila
Kiwa humu duniani, wasije nao kutula
Waadilifu chagueni, tusongozwe nazo hela
Wanasiasa ndu zangu, wanazo hila Chekwa.

Walo walipo neleza, siku yao itafika
Walotufanya na boza, damu yetu faidika
Siku zao zitaiza ,safari yao safirika
Wanasiasa ndu zangu, wanazo hila Chekwa

Ndu zangu la muhimu, ni kutokufa moyoni
Duniani kiwa humu, tawaona kilipani
Liyotendea kaumu, takuja kuyalipani
Wanasiasa ndu zangu, wanazo hila Chekwa.

MASWALI

a)Kwa hoja mbili dhamira ya mshairi katika shairi hili **(alama 2)**

b)Fafanua sifa tatu za warejelewa. **(alama 3)**

c)Kwa kutolea mifano onyesha mbinu alizotumia mshairi ili kukidhi mahitaji ya kiarudhi.**(ala 3)**

d)Tambua nafsineni katika shairi hili. **(alama 2)**

e)Ainisha shairi hili kwa kutumia vigezo vifuatavyo. **(alama 2)**

i)Vipande

ii) Vina

f)Fafanua mbinu mbili za kimtindo zilizotumika katika shairi **(alama 2)**

g)Andika ubeti wa saba kwa lugha nathari **(alama 4)**

h)Eleza toni ya shairi hili. **(alama 2)**

au

7. Unaponyimwa uhuru
Husemi unavyotaka
Na kudadisi ya kweli
Yakini mekandamizwa.

Unapoliona kosa
Kwa hofu usiliseme
Mtu akukosowe
Nawe usimkosowe
Ndu yangu mekandamizwa.

Unapofanywa mjinga
Usiwe na uamuzi
Ufanywe kama sanamu
Na haulizi kwa nini?
Hakika mekandamizwa.

KCSE 23

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Unapoanza kuiga
Kuiga bila sababu
Na kushawishika ya kwamba
Hu lolote hu chochote
Ndu yangu mekandamizwa.

Unapofanywa bidhaa
Uwe mali ya mtu
Na haulizi kwa nini?
Hakika mekandamizwa.

Unapotaka kulewa
Kulewa ujipumbaze
Usahau taabu zako
Fahamu mekandamizwa.

Unapoanza kuwaza
Uwaze na uwazue
Hujui ufanye nini
Utakapo na kusahau
Mawazo yakurudie
Ndu yangu mekandamizwa.

Unapokata tamaa
Unapoheshimu mwenzako
Kwa kile alicho nacho
Taabu zikulemele
Yakini mekandamizwa.

MASWALI

a)Shairi hili ni la aina gani?Toa sababu yako. **(alama 2)**

b)Tambua dalili zozote nne za mtu aliyekandamizwa kulingana na mshairi. **(alama 4)**

c) Kwa kuotlea mfano, eleza maana ya mshororo mshata **(alama 2)**

d)Fafanua mbinu za kimtindo/ kifasihi zilizotumika katika shairi hili. **(alama 3)**

e)Onyesha namna mshairi alivyotumia idhini yake katika shairi hili. **(alama 2)**

f)Tambua nafsi neni katika shairi hili. **(alama 2)**

g)Andika ubeti wa pili kwa lugha nathari. **(alama 4)**

h)Onyesha matumizi ya usambamba katika shairi hili. **(alama 1)**

SEHEMU E: HADITHI FUPI

D.Lutomia na Phibbian Muthama: *Mapambazuko ya Machweo na Hadithi Nyingine.*

8.(a) 'Nipe Nafasi"

Baridi ilizidi kututafuna kadri tulivyokazana kupanda Milima ya Maloti. Vidole vyangu vya miguuni vilikufa ganzi. Mashavu yetu yaliadhibika kwa upepo baridi huku vipande vya theluji vikitupiga kwenye nyuso zetu.Miili yetu iliathirika;tulihisi njaa na uchovu. Nikatamani tufike kwa jamaa ya baba yetu ambako tungepata angalau mchuzi wa papa kabla ya kulala. Bidii ya mama ilitutia moyo wa kuendelea na safari.

(i) Tambua nafsi ya usimulizi iliyotumika katika hadithi hii na uthibitishe jibu lako. **(alama 2)**

ii) Eleza umuhimu wa mwandishi kutumia nafsi uliyotaja hapo(i) juu. **(alama 2)**

iii) Bainisha mbinu mbili za kimtindo zilizotumika katika dondoo hili **alama 2)**

iv) "Mamake Msimulizi (Richman) ni kielelezo cha wanawake jasiri""Thibitisha kwa kutolea mifano mwafaka **(alama 7)**

b) Hadithi "Toba ya Kalia" inahimiza uwajibikaji. Jadili. **(alama 7)**

HUU NDIO UKURASA WA MWISHO ULIOPIGWA CHAPA.

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KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

AGRICULTURE

443/1

PAPER 1

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *Write your name and admission number in the spaces provided above*

b) *Sign and write date of examination in the space provided.*

c) *This paper consists of* ***three*** *sections* ***A, B*** *and* ***C***

d) *Answer* ***ALL*** *questions in section A and B and any* ***two*** *questions from section C*

e) *Candidates must answer the questions in English.*

f) *All answers should be written in the spaces provided.*

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1-17		
B	18-21		
C	22-24		

SECTION A (30 MARKS)

Answer ALL Questions in this section

1. List three aspects of light a farmer should consider when deciding on a crop to grow. **(1½mks)**

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2. State **four** factors which determine the depth of ploughing. **(2mks)**

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3. Give **four** reasons why it is advantageous to use farm yard manure instead of straight fertilizer. **(2mks)**

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4. State **four** methods of reclamation farmers can carry out. **(2mks)**

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5. State **four** benefits of land consolidation. **(2mks)**

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6. State **four** factors that determine the spacing of maize crops. **(2mks)**

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7. State **four** factors which may affect the quality of hay. **(2mks)**

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8. State **four** factors that affect the effectiveness of a pesticide. **(2mks)**

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9. List any **four** types of records a crop farmer should keep. **(2mks)**

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10. State **four** importance of practicing agroforestry. **(2mks)**

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11. State **four** characteristics of a good site for a nursery bed. **(2mks)**

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12. Name **four** methods of farming. **(2mks)**

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13. Name **four** natural factors that may influence soil erosion. **(2mks)**

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14. State **two** conditions that should be observed when harvesting to ensure that cotton picked is of high quality. **(2mks)**

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15. State **four** uses of water on the farm. **(2mks)**

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16. List **three** types of surface irrigation in crop production. **(1½mks)**

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17. Differentiate between coppicing and pollarding as used in Agroforestry. **(1mk)**

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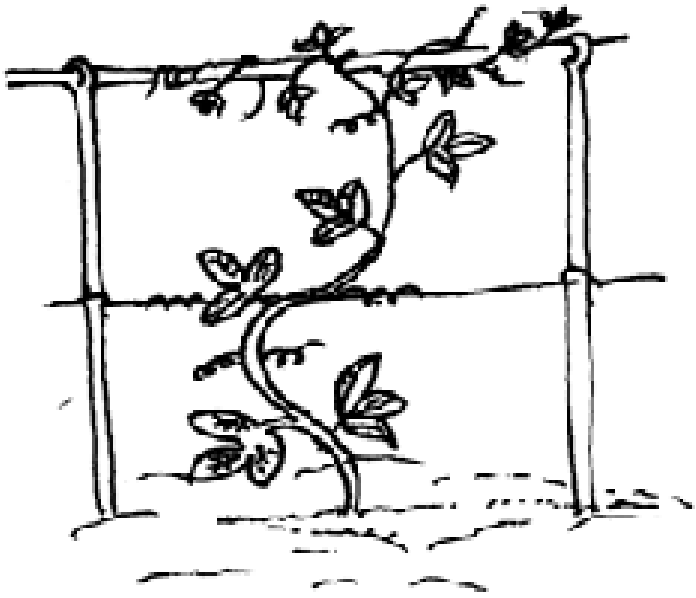
SECTION B (20MARKS)

Answer ALL questions in this section

18. Below are filed practices. Study them carefully and answer the questions that follow.



M



N

a) Identify the above practices. **(2mks)**

M……

N……

b) State **three** reasons for carrying out practice M. **(3mks)**

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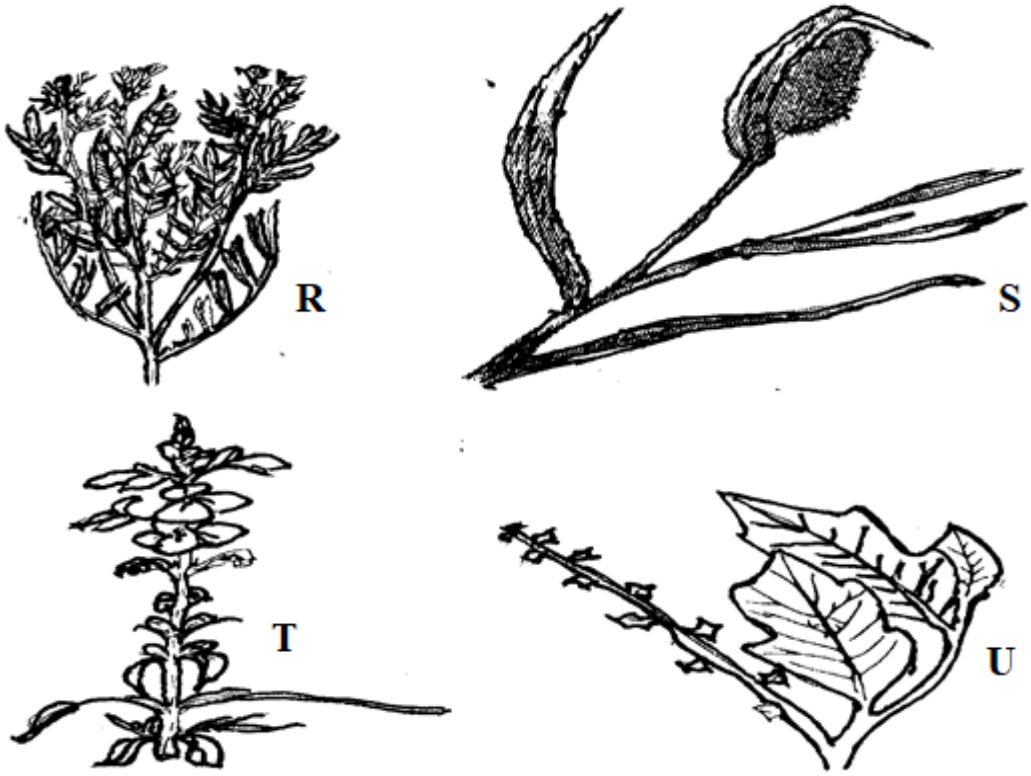
19. Below are common weeds found on the farm. Use them to answer the questions that follow.



a) Identify the weeds R, S, T, U. **(2mks)**

R……

S……

T……

U……

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b) State the reason why S and U are difficult to control. **(2mks)**

S

……

……

U

……

……

c) Why is weed R not suitable on dairy animals. **(½mk)**

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d) Which weed is parasitic to cereals? **(½mk)**

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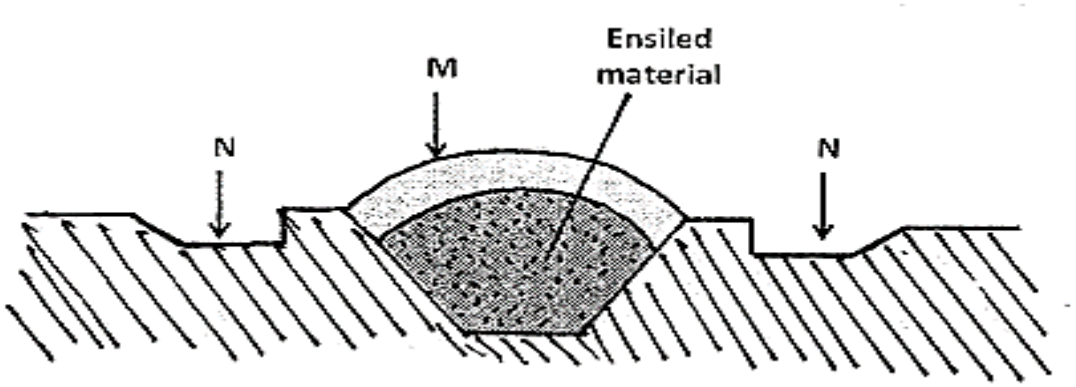
20. The diagram below shows a silo. Study it carefully and answer the questions that follow.



a) Identify the type of silo shown on the diagram. **(1mk)**

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b) State the use of the part labelled M and N. **(2mks)**

M

……

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N

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c) Give two ways of ensuring that anaerobic conditions are achieved during silage making process. **(2mks)**

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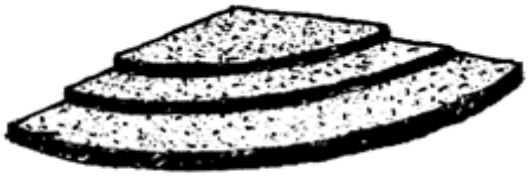
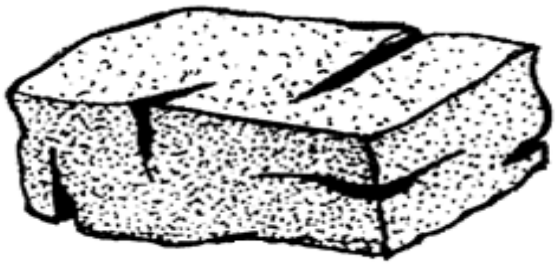
21. The illustrations below represents types of soil structures. Study them carefully and answer the questions that follow.



X



Y

a) Identify the soil structures X and Y shown above. **(2mks)**

X

……

Y

……

……

b) Which of the soil structure you have named above is not suitable for growing maize. **(1mk)**

……

c) Give **<u>two</u>** methods of improving the soil structure you have mentioned in (ii) above. **(2mks)**

……

……

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SECTION C (40 MARKS)

Answer any two questions from this section

22. a) Explain how farmers overcome risks and uncertainties in a farming business. **(5mks)**

b) Explain how various practices carried out in the field help to control crop diseases. **(8mks)**

c) Transplanting of seedlings. **(7mks)**

23. Study the following information which was extracted from Mr. Rono's farm record on 31st December 2022 and answer the questions below.

Item	
Debts receivable	18,000
Loans payable to bank	300,000
Cows	250,000
Chicken	80,000
Goats	30,000
Debts payable to cooperative	20,000
Buildings and structures	600,000
Wages payable to workers	19,000
Cattle feed in store	10,000
Animal drugs in store	4,000
Breakages to repair	30,000
Cash at hand	20,000
Cash in bank	30,000
Farm equipment	12,000

a) Prepare a balance sheet for Rono's farm using the information above. **(10mks)**

b) Describe the properties of nitrogenous fertilizers. **(15mks)**

c) Describe **five** problems farmers face in marketing of water melon. **(5mks)**

24. a) Describe cabbage production under the following sub-headings.

i) Ecological requirements. **(2mks)**

ii) Field management practices. **(3mks)**

b) State **five** advantages of using seeds as planting material. **(5mks)**

c) Describe process of chemical water treatment before storage. **(10mks)**

KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

AGRICULTURE

443/2

PAPER 2

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *Write your name and admission number in the spaces provided above*

b) *Sign and write date of examination in the space provided.*

c) *This paper consists of* ***three*** *sections* ***A, B*** *and* ***C***

d) *Answer* ***ALL*** *questions in section A and B and any* ***two*** *questions from section C*

e) *Candidates must answer the questions in English.*

f) *All answers should be written in the spaces provided.*

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1-17	30	
B	18-21	20	
C		20 20	
TOTAL SCORE		**90**	

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SECTION A. (30MARKS)

1. State **four** methods of identification in livestock production. **(2mks)**

……

……

……

……

2. Explain the meaning of the following terms as used in livestock health.

i) A notifiable disease. **(1mk)**

……

……

ii) Prophylatics. **(1mk)**

……

……

3. Give **two** reasons for including roughages in diet of non-ruminants. **(1mk)**

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4. State **four** equalities of a good grain store. **(2mks)**

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5. Give **four** ways a farmer would adopt to improve production in indigenous cattle. **(2mks)**

……

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……

6. State <u>two</u> factors to consider when formulating livestock ration. **(2mks)**

……

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7. State **<u>three</u>** importance of farm buildings. **(1½mks)**

……

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……

8. State **<u>four</u>** symptoms of new castle disease in poultry. **(2mks)**

……

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……

……

9. What is creep feeding in pig production? **(1mk)**

……

……

10. State the use of each of the following tools and equipment. **(2mks)**

i) Routers

……

……

ii) Tinsnips

……

……

iii) Wood rasp

……

……

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iv) Chipping hammer

……

……

11. State **three** methods of treating timber for building construction. **(1½mks)**

……

……

……

12. State **two** ways in which feed additives are important in animal nutrition. **(2mks)**

……

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13. State **four** predisposing factors for mastitis in dairy cattle. **(2mks)**

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14. Give **two** examples of a three host tick. **(1mk)**

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15. State **four** general uses of solar energy. **(2mks)**

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16. Name **two** causes of bloat in farm animals. **(2mks)**

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17. Name **two** light breeds of poultry. **(1mk)**

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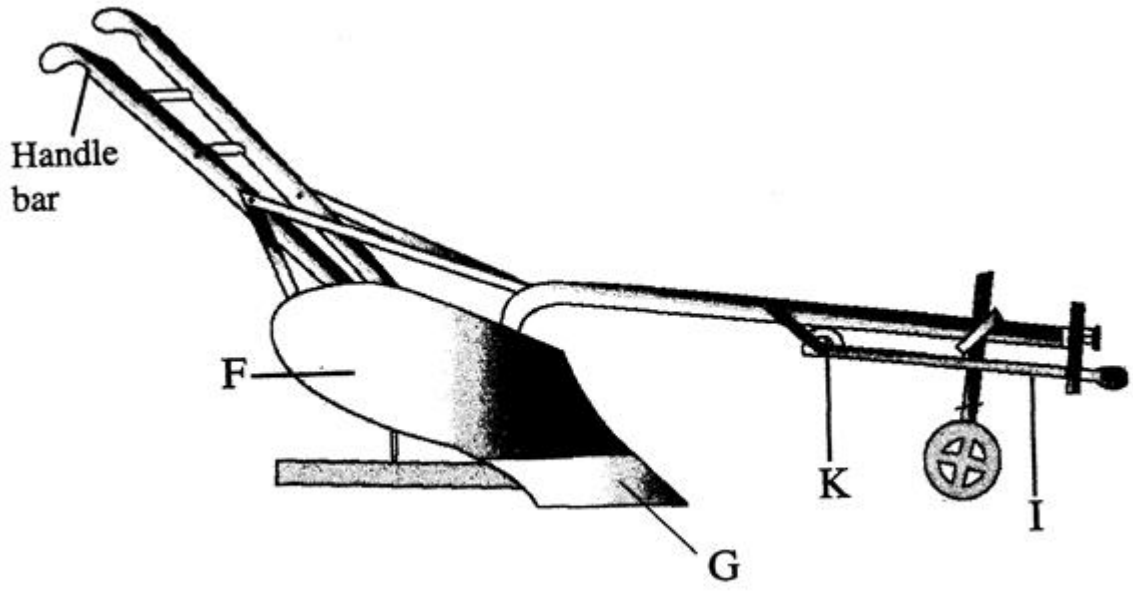
SECTION B (20MARKS)

Answer ALL questions in this section

18. Study the diagram below of an ox-plough and use it to answer the questions that follow.



a) Give the functions of parts **G and F** **(1mark)**

G

……

……

F **(1mark)**

……

……

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b) Name the parts labelled K and I

K **(1mark)**

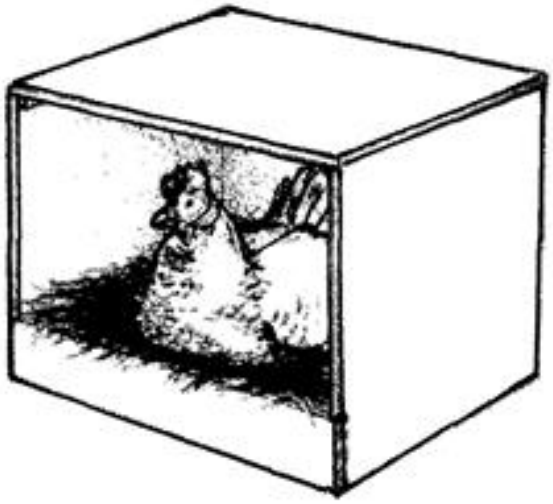
……

I **(1mark)**

……

c) Mark on the diagram using letters M and N the two parts used to adjust the depth of ploughing. (1mark)

19. The diagram below shows a hen sitting on eggs. Use it to answer the questions that follow.



a) Name the method of incubation illustrated above. **(1mark)**

……

b) Give **<u>two</u>** signs that may show that the hen is ready to sit on the eggs. **(2marks)**

……

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c) State **<u>two</u>** problems of using the above method to hatch chicks. **(2marks)**

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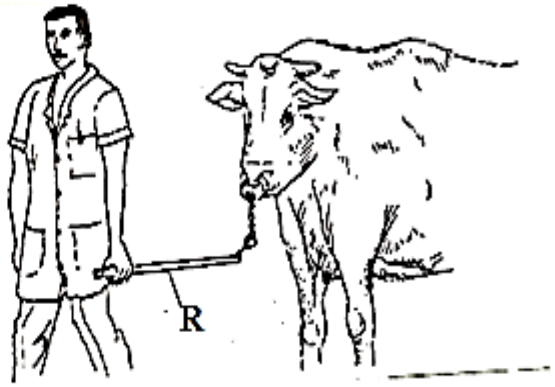
20.



P



Q



a) Give the identity of tools **P and Q.**

P **(1mark)**

……

Q **(1mark)**

……

b) What is the role of part labelled S on diagram P. **(1mark)**

……

……

c) Name another tool used in conjunction with tool R. **(1mark)**

……

d) Give **<u>one</u>** maintenance practice for tool Q. **(1mark)**

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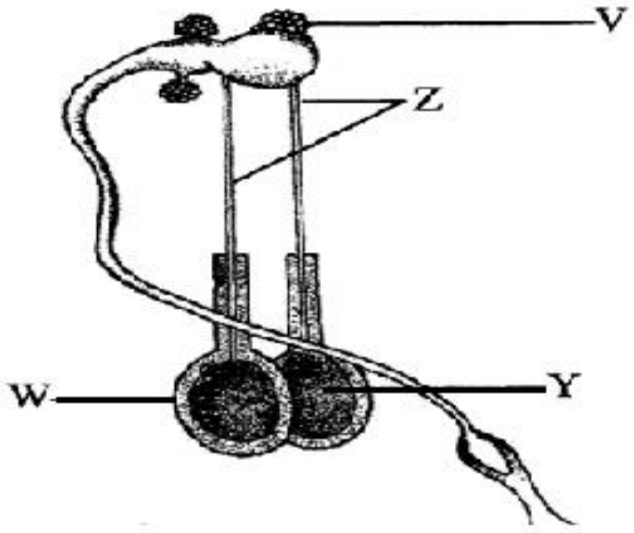
21. The diagram below shows the male reproductive system in cattle. Use it to answer the questions that follow.



a) Name the parts labelled **Z and W**

Z **(1mark)**

……

W **(1mark)**

……

b) State the function of part labelled V and Y

V **(1mark)**

……

Y **(1mark)**

……

c) How is part W adapted to its function? **(1mark)**

……

……

SECTION C (40MARKS)

22. a) Describe short term tractor servicing. **8marks)**

b) Explain the procedure of establishing a fish pond. **(5mks)**

c) Outline preventive measures for livestock diseases. **7mks)**

23. a) Describe brucellosis under the following subheadings:

i) Causal organism **(1mark)**

ii) Transmission **(1mark)**

iii) Symptoms **(4mks)**

iv) Control measures **(4mks)**

b) State the function of any five parts of a zero grazing unit in dairy farming. **(5mks)**

c) Explain **five** factors that should be considered when choosing tools and equipment to use in the farm. **(5mks)**

24. a) Explain **eight** qualities of an ideal broader for a day old chick. **(8mks)**

b) Describe **seven** factors that a farmer should consider when sitting a bee hive to prevent swarming of bees. **(7mks)**

c) State **five** functions of water in nutrition. **(5mks)**

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KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

BUSINESS STUDIES

565/1

PAPER 1

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES:

- *Write your Name, School and Admission number in the spaces provided*
- *Answer **all** the questions in the spaces provided.*
- *Check that the question paper has all pages printed and that no questions are missing.*

FOR EXAMINERS USE ONLY

QUESTIONS	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
MARKS															

QUESTIONS	16	17	18	19	20	21	22	23	24	25
MARKS										

*Answer **all** the questions in the spaces provided*

1. Outline **four** methods of Trade restriction used by the government. **(4mks)**

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2. State the effects of the following transactions on the balance sheet totals by writing increase decrease or no effect in each case. **(4mks)**

(i) Bought machinery on credit……

(ii) Withdrew cash from the business for own use ……

(**iii)**Purchased stock in cash ……

(iv) Paid outstanding loan by cheque ……..

3. List **four** benefits that may be enjoyed by Kenyans as a result of government initiatives to expand road and railway network in the country. **(4mks)**

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4. Highlight **fou**r circumstances under which a firm would prefer open office layout. **(4mks)**

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5. Outline **four** limitations of Barter trade. **(4mks)**

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6. The following information was extracted from the books of Mangi traders on 30th June 2009.

Item	Sh
Purchases	720 000
Opening stock	165,000
Closing stock	?
Sales	980 000

a)Additional information.

Margin 20%

Required: Prepare the Trading account for Mangi trades for the year ended 30th June 2009. (**4mks)**

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7. Identify four factors that influence entrepreneurial practices in Kenya. **(4mks)**

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8. Stima insured his house worth sh. 800 000 for sh. 700 000 and unfortunately the house was destroyed by an inferno and he sustained losses worth sh. 600000. Calculate the amount the amount of money that Stima should claim from the insurance company as a compensation and comment. **(4mks)**

9. State four reasons for popularity of WhatsApp as trend in communication. **(4mks)**

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10. State four negative effects of overpopulation in a nation. **(4mks)**

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11. State the type of unemployment relating to each of the following descriptions. **(4mks)**

i) Caused by alternating trading patterns occurring at similar times.

……

ii) Arises when a worker has more skills and higher qualification than the job requirement.

……

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iii) Arises out of mismatch between the skills possessed by a potential employee and the job available.

……

iv) Arises when people are unwilling to take up jobs due to low pay.

……

12. Highlight **four** ways in which a warehouse may be useful to a trader. **(4mks)**

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13. Outline **four** distribution channels of locally produced agricultural products. **(4mks)**

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14. Outline **four** levels of inflation. **(4mks)**

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15. State **four** measures that a consumer may undertake to satisfy the unlimited human wants.**(4mks**

……

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……

16. Give **four** differences between shares and debentures. **(4mks)**

Shares	**Debentures**
(i) **(ii)** **(iii)** **(iv)**	

17. Highlight four factors that a firm must take in the account when choosing on the products to produce . **(4mks)**

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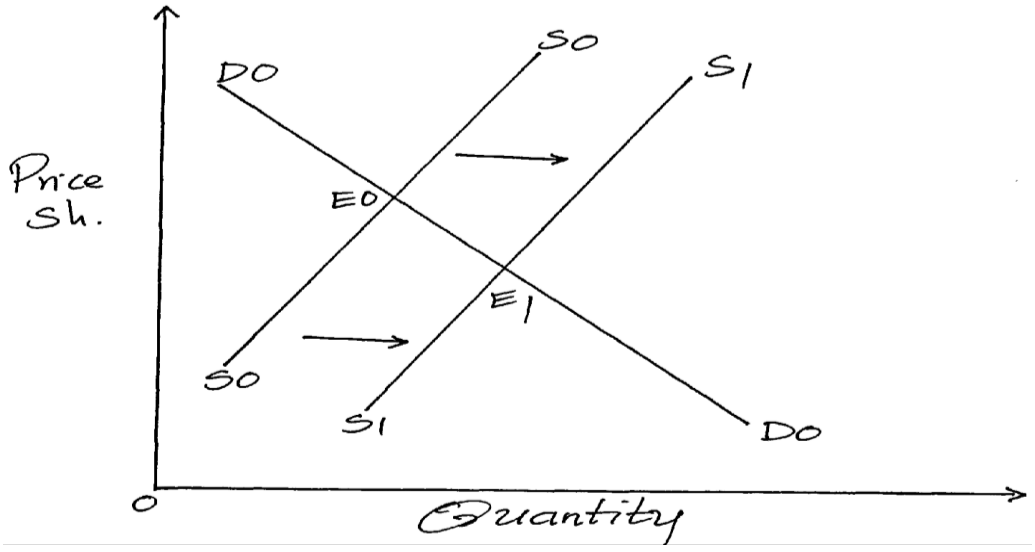
18. Below is a demand and supply curve. Highlight the factors that may have caused the supply curve to shift right ward. **(4mrks)**



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19. Outline four circumstance under which a trader can issue a credit note to a customer. **(4mks)**

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20. Highlight four advantages of indirect tax. **(4mks)**

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21. Highlight **four** duties of commercial attaches in trade promotion. **(4mks)**

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22. Outline **four** advantages of using celebrities in product promotion. **(4mks)**

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23. Highlight four features of perfect competition market. **(4mks)**

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24. Outline **four** problems encountered in development planning. **(4mks)**

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25. Identify the book of original entry in which the following transactions can be recorded. **(4mks)**

Transaction	Book of original Entry
(i) Paid salaries by cheque	_____
(ii) Returned goods to a supplier	_____
(iii) Sold goods on credit	_____
(iv) Bought delivery van on credit	_____

THIS IS THE LAST PRINTED PAGE!

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KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

BUSINESS STUDIES

565/2

PAPER 2

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *Write your name and index number on the answer booklet provided above.*

b) *Sign and write the date of the examination in the spaces provided above*

c) *This paper consists of six questions.*

d) *Answer any* ***five*** *questions in the spaces provided after question 6.*

e) *All questions carry equal marks.*

FOR EXAMINER'S USE ONLY

Question	Maximum Score	Candidate's Score
1	20	
2	20	
3	20	
4	20	
5	20	
6	20	
	Total Score	

1. a) Assuming you were planning to start a business after form four, explain any **five** factors you would consider when evaluating your business idea. **(10 marks)**

b) Distinguish between whole life insurance policy and endowment insurance policy **(10marks)**

2. a) Explain **five** benefits that may be realized by a country as a result of government policy to relocate industries to rural areas. **(10 marks)**

b) Outline **five** ways in which an office manager can ensure that the company's property is safeguarded. **(10marks)**

3. a) There has been a decline in the demand for wooden furniture in Kenya. Explain **five** factors that may have cause this trend. **(10 marks)**

b) On 1st January 2022 Fadhili Traders had 180,000 cash in hand and a bank credit balance of sh 56800 . During the month the following transactions took place **(l0marks)**

Jan

3rd cash sales sh 21,800
5th A debtor settled his account of sh 75,000 by cheque
10th Paid salaries sh 40,000 in cash
12th withdrew cash sh 3500 to settle a personal debt
23rd Received a cheque shs 11520 from Kavutha wholesalers after deducting 4% cash discount
24th Deposited sh 10,000 in the bank from office cash till
25th Purchased stock worth sh 8950 on credit from Ngumo distributors
26th Cash sales banked directly sh 38,000
27th A cheque received on 5th from debtor was dishonored. The bank charged him sh 500
29th Settled creditors account sh 6000 by cheque less 5% cash discount
31st Banked all cash except sh 20,000

Required: Prepare a three column cash book dully balanced **(10 marks)**

4. a) Apart from selling shares explain **five** sources of finance for a public limited company **(10 marks)**

b) Inflation has been on the rise in the Kenyan economy, explain **five** monetary policies that can be used by the government to curb inflation **(10 marks)**

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5. a) Explain **five** reasons for differences in terms of trade between countries **(10 marks)**

b) Jayden enterprises had the following trial balances for the year ended 2022.

Trial Balance As at 31st December 2022		
Details	DR	CR
Insurance	20000	
Bad debts	30000	
Carriage inwards	50000	
Carriage outwards	20000	
Commission received		100000
Discount	100000	50000
Stock (1/1/2021)	100000	
Purchases	1000000	
Rent	40000	
Returns	150000	200000
Sales	- - - - -	1160000
	1510000	1510000
	_____	

Additional information: Stock as at 31St December 2022 was Sh. 250,000

Prepare a Trading Profit and Loss account for Jayden Enterprises for the year ended 31st December 2022 **(10 marks)**

6. a) State and explain **five** benefits of using computers in an office **(10 marks)**

b) Explain **five** reasons for which traders observe ethical practices in product promotion **(10 marks)**

KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

BIOLOGY

231/1

PAPER 1 (THEORY)

TIME: 2 HOURS

NAME……

SCHOOL…… **SIGN**……

INDEX NO…… **ADM NO**……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

1. *Write your name and Adm. number in the spaces provided above*

2. *Sign and write date of examination in the space provided.*

3. *All working must be clearly shown where necessary.*

4. *Answer ALL questions in the spaces provided.*

5. *Answer all questions in English.*

FOR EXAMINERS USE ONLY

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1-29	80	

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Answer ALL questions in the spaces provided.

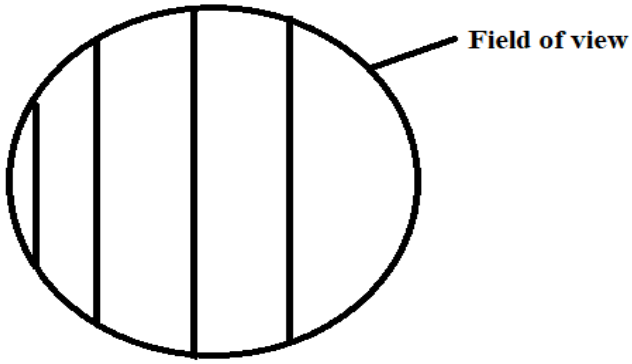
1. Explain why ferns are considered to be more advanced than mosses. **(2mks)**

……

……

……

2. A student estimating a cell size of an onion epidermal cell observed the following on the microscope field of view using a transparent ruler.



The student identified 20 cells across the field of view. Calculate the size of the cell in micrometers.

(Show your working). **(3mks)**

……

……

……

……

……

3. What role do the following play in the movement a Tilapia fish? **(2mks)**

a) Myotomes

……

……

b) Swim bladder

……

……

4. Name the tissues whose cells are thickened with;

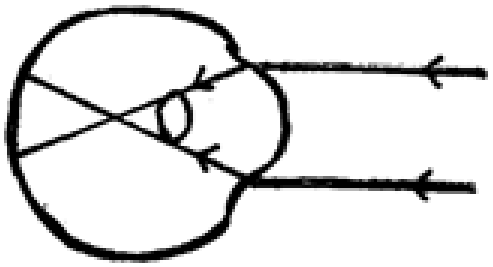
a) Cellulose and pectin **(1mk)**

……

b) Lignin **(1mk)**

……

5. The diagram below shows the position of an image formed in a defective eye.



a) Name the defect. **(1mk)**

……

b) Explain how the defect named in (a) above can be corrected. **(2mks)**

……

……

……

6. The paddles of whales and the fins of fish adapt these organisms to aquatic habitat.

a) Name the evolutionary process that may have given rise to the structures. **(1mk)**

……

b) What is the name given to such structures? **(1mk)**

……

c) Give two examples of vestigial organs in man. **(2mks)**

……

……

……

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7. a) Define the term mutation. **(1mk)**

……

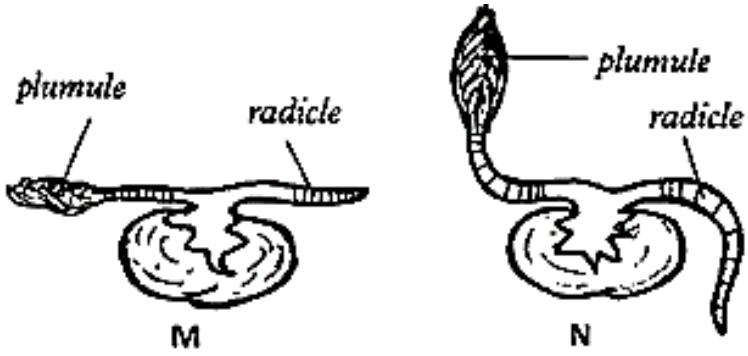
……

b) State two disorders due to gene mutation. **(2mks)**

……

……

8. An experiment was set to investigate a certain aspect of response. A seedling was put on a horizontal position as shown in figure M below. After 24 hours, the set up was shown in figure N.



a) Name the response exhibited by the shoot. **(1mk)**

……

b) Explain the curvature of the shoot upwards. **(3mks)**

……

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9.a) A student visiting a game park observed an adult elephant flapping its ears twice as much as its calf in order to cool its body when it is hot. Explain. **(2mks)**

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……

b) Explain why some desert animals excrete uric acid rather than ammonia. **(2mks)**

……

……

……

10. The table below shows the concentration of important plant nutrients.

Ion	Concentration in pond water (ppm)	Concentration in cell sap (ppm)
Potassium	1	15
Chloride	200	50

Name the process by which the above ions could have been taken up by the plants.

i) Potassium **(1mk)**

……

ii) Chloride **(1mk)**

……

11. Name two hormones produced by the duodenal cells in response to the presence of acidic chyme from the stomach. **(2mks)**

……

……

……

12. Name the disease causing microorganism in the following respiratory diseases. **(2mks)**

i) Pneumonia

……

……

ii) Pulmonary tuberculosis

……

……

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13. State the role of the following hormones during menstruation. **(3mks)**

a) Oestrogen

……

……

b) Luteinising hormone

……

……

c) Progesterone

……

……

14. Give one aspect of dichogamy in flowers. **(1mk)**

……

……

15. The equation below shows an oxidation reaction of a food substance.

$$5C_{51}H_{98}O_6 + 145O_2 \rightarrow 102CO_2 + 98H_2O + Energy$$

a) Determine respiratory quotient of the oxidation of the food substance above. **(2mks)**

……

……

……

……

b) Identify the food substance. **(1mk)**

……

16. State two pollution effects of radioactive emissions. **(2mks)**

……

……

17. A blood group A mother gave birth to a blood group O child with a blood group B husband.

a) State the genotype of the parents. **(2mks)**

……

……

b) What is the genotype of the child? **(1mk)**

……

……

c) State other blood groups likely to occur in the children of the couple. **(1mk)**

……

18. Name the organelle that would be most abundant in:

i) White blood cell **(1mk)**

……

ii) Salivary glands **(1mk)**

……

19. Name three mechanisms through which plants excrete. **(3mks)**

……

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20. a) Nitrogen in the atmosphere cannot be directly utilized by plants. State two ways through which Nitrogen is made available for plant use. **(2mks)**

……

……

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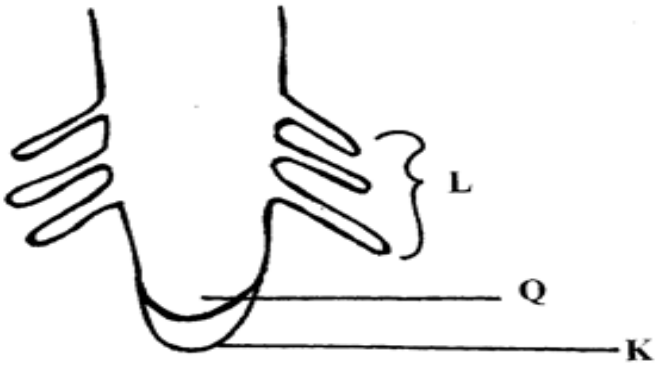
b) State the importance of saprophytic bacteria in the environment. **(1mk)**

……

……

21. The diagram below shows regions of a root tip.



a) What is the function of the part labelled K. **(1mk)**

……

……

b) Name the region labelled L. **(1mk)**

……

c) Give two characteristics of the cell in the part labelled Q. **(2mks)**

……

……

……

22. Name the hormones that control the following activities;

a) Metamorphosis in young insect **(1mk)**

……

b) Formation of abscission layer in leaves and fruits. **(1mk)**

……

23. Give the formula for calculating magnification of a specimen using: **(2mks)**

i) Light microscope

……

……

ii) Hand lens

……

……

24. A student met a lion as he walked along a forest path.

i) Name the hormone that was secreted in his blood stream and state its source. **(2mks)**

Name

……

Source

……

ii) What is the effect of the hormone in his? **(2mks)**

a) Circulatory system

……

……

b) Respiratory system

……

……

25. State the function of the following structures found in the walk of the trachea. **(3mks)**

i) Cilia

……

……

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ii) Mucus

……

……

iii) Rings of cartilage

……

……

26. Explain the basis for the ever changing drugs for malaria. **(3mks)**

……

……

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……

27. During an accident a victim suffered injuries in the head. After the accident he lost his memory and was passing excessive amount of dilute urine. Suggest the part of the brain that was damaged in relation to: **(2mks)**

a) Memory

……

……

b) Passing large amounts of dilute urine

……

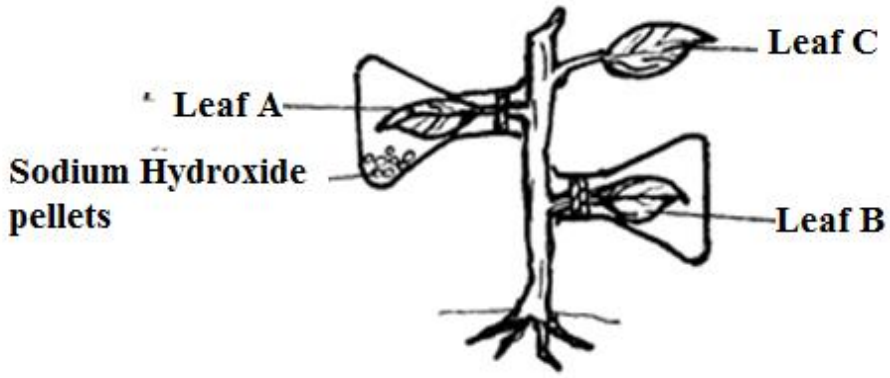
……

28. State two structural differences between bicep muscles and muscles of the gut. **(2mks)**

Bicep muscles	**Gut muscles**

29. The diagram below represents an experimental set up to investigate a certain scientific concept.

The potted plant was first destarched by keeping it in the dark for four days.



The setup was then placed in sunlight for five hours and leaves were tested for starch.

a) What scientific concept was being investigated? **(1mk)**

……

b) i) Give the results likely to be obtained after starch test for **A and B.**

A **(1mk)**

……

B **(1mk)**

……

c) Why was leaf C included in the set-up? **(1mk)**

……

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KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

BIOLOGY

231/2

PAPER 2 (THEORY)

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

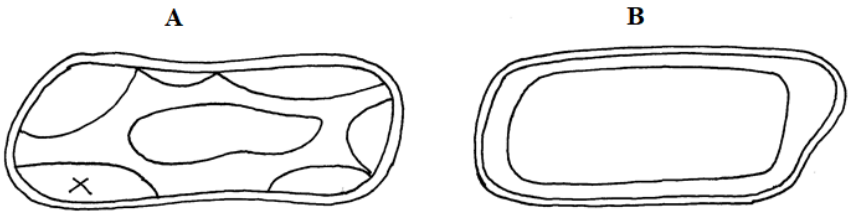
1. *Write your name and index number in the spaces provided above*
2. *Sign and write date of examination in the space provided.*
3. *All working must be clearly shown where necessary.*
4. *Mathematical tables and silent electronic calculations may be used*
5. *Answer all questions in English.*

FOR EXAMINERS USE ONLY

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1-5	40	
6	20	
7	20	
8	20	
TOTAL	80	

SECTION A (40 MARKS)

1. The diagram below represents two plant cells A and B placed in two different solutions. Study the diagrams and answer the questions that follow:



a) Identify the nature of solution into which each cell was placed. **(2mks)**

A……

B……

b) Name the physiological process responsible for the observed results. **(1mk)**

……

c) Give the correct biological term used to describe cell A. **(1mk)**

……

d) Describe what happen if red blood cell was placed in the solution in which cell B was placed. **(2mks)**

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e) Explain why freshwater amoeba do not burst when placed in distilled water. **(2mks)**

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2. i) Under certain conditions, carbon (IV) oxide concentration in the blood of mammals rises above the normal levels. State two physiological change that occur to bring carbon (IV) oxide level back to normal. **(2mks)**

……

……

……

……

ii) Why does a fresh wound bleed more in a hot weather than in cold weather? **(2mks)**

……

……

……

iii) A certain organ R was surgically removed from a rat. Later a drastic increase in glucose level was observed in blood. Substance S was injected into the animal's blood. The whole process was reversed. Identify:

Organ R…… **(1mk)**

Substance **S**…… **(1mk)**

iv) State two functions of blood plasma. **(2mks)**

……

……

……

3. a) Explain why people with sickle-cell trait have an advantage of surviving malarial attack than those with normal red blood cells. **(2mks)**

……

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……

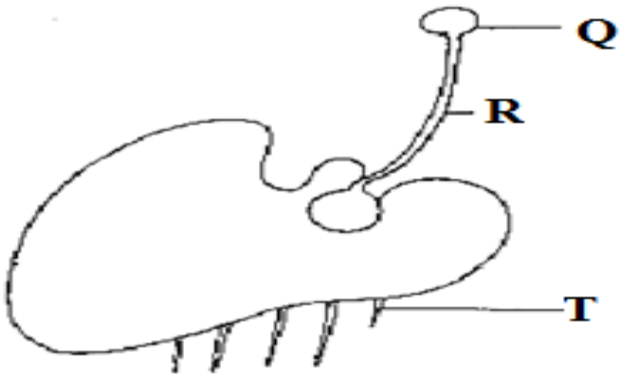
b) Colour blindness is a sex linked trait caused by a recessive gene carried on the X chromosome. A carrier woman marries a man with normal colour vision. Using letter N to represent the gene for normal colour vision, workout the probability of the couple getting a colour blind son. **(5mks)**

c) State one advantage of polyploidy in plants. **(1mk)**

……

……

4. The diagram below represents a living organism.



a) Name the division to which the organism belongs to. **(1mk)**

……

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b) Name part labelled Q. **(1mk)**

……

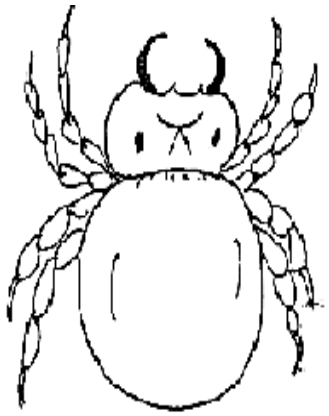
c) State **two** functions of part T. **(2mks)**

……

……

……

d) During a practical activity, Form three students of Bora Boys collected a specimen whose drawing is as shown below. State the class that the organism belongs to giving a reason.



Class ……**(1mk)**

Reason ……... **(1mk)**

e) State the economic importance of a named fungus. **(2mks)**

……

……

……

5.a) Distinguish between population and community. **(2mks)**

……

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b) What is the importance of the following in an ecosystem? **(2mks)**

Decomposers

……

……

Predation

……

……

c) Give a reason why two species in an ecosystem cannot occupy the same niche. **(2mks)**

……

……

……

d. i) Name the bacteria found in root nodules of leguminous plants. **(1mk)**

……

ii) Identify the relationship between the bacteria named in d(i) above. **(1mk)**

……

……

SECTION B (40MARKS)

Answer Question 6 (compulsory) and either question 7 or 8 in the spaces provided.

6. The table below shows how quantities of sweat and urine produced by a healthy adult human vary with external temperature.

External Temperature	0	5	10	15	20	25	30	35
Urine produced cm^3/hr.	100	90	80	70	60	50	40	30
Sweat produced in cm^3/ hr.	5	6	10	15	30	60	120	200

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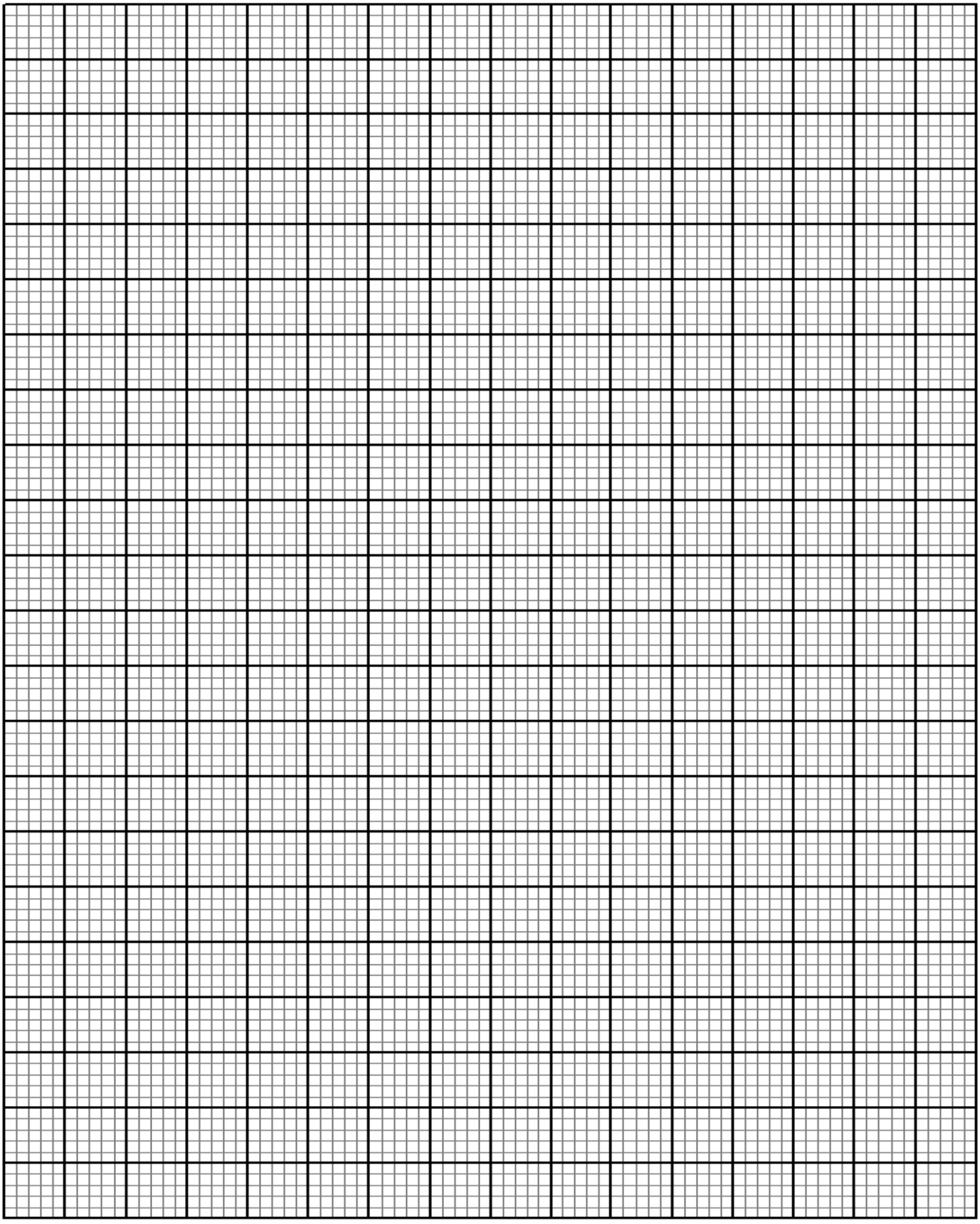
a) Using the same axes, draw graphs of quantities of urine and sweat against external temperature.

(8mks)



b) Account for the amount of sweat produced as the external temperature rises. **(3mks)**

……

……

……

……

c) At what temperature was the amount of urine equal to amount of sweat produced. **(1mk)**

……

……

d) Explain the effects of temperature on the amount of urine produced. **(4mks)**

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……

……

e) Explain how the following structures reduce body heat loss when external temperatures are low.

i) Skin hairs **(2mks)**

……

……

……

……

ii) Blood vessels **(2mks)**

……

……

……

……

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7.a) Describe the adaptations of mammalian male reproductive system to its function. **(10mks)**

b) Explain how the vertebrae below are adapted to their functions. **(10mks)**

i) Cervical vertebrae

ii) Thoracic vertebrae

8. Explain how the leaves of mesophytes are suited to their functions. **(20mks)**

KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

BIOLOGY

231/3

PAPER 3 (PRACTICAL)

TIME: 1¾ HOURS

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Each candidate requires:

- ✓ *A mature Sodom apple's flower (J)*
- ✓ *A mature lemon fruit labelled T*
- ✓ *Scalpel*
- ✓ *3 test tubes*
- ✓ *Test tube holder*
- ✓ *50 ml beaker*
- ✓ *Ruler*

Access to:

- ✓ *DCPIP solution*
- ✓ *Sodium hydrogen carbonate solution*
- ✓ *Dilute hydrochloric acid*
- ✓ *Benedict's solution*
- ✓ *Sodium hydroxide solution*
- ✓ *Copper II sulphate solution*
- ✓ *Means of heating*

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KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

BIOLOGY

231/3

PAPER 3 (PRACTICAL)

TIME: 1¾ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *Write your name and index number in the spaces provided above*

b) *Sign and write date of examination in the space provided.*

c) *Answer ALL the questions in the spaces provided.*

d) *You are required to spend the first 15 minutes of the 1 ¾ hours allowed for this paper reading the whole paper carefully before commencing your work.*

e) *Additional papers must not be inserted.*

FOR EXAMINERS USE ONLY

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1	13	
2	14	
3	13	
Total score	40	

Answer ALL the questions in the spaces provided

1. You are provided with a specimen T that has been obtained from a plant.

a) i) Identify the part of plant that is T. **(1mk)**

……

ii) Give one reason for your answer in a (i) above. **(1mk)**

……

……

b) Cut specimen T into two halves to obtain its cross sections. Squeeze the juice from specimen T into the beaker provided. Using the reagents provided, test the food substances present in specimen T. record your results in the table below. **(9mks)**

Food	Procedure	Observation	Conclusion

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c) Specimen T is dispersed in nature by animals. Give two importance of fruits and seed dispersal.

(2mks)

……

……

……

2. You are provided with specimen J. examine it and answer the questions below.

a) i) Identify the subdivision of the plant from which J was obtained. **(1mk)**

……

ii) Give a reason. **(1mk)**

……

……

b) State the class of J. **(1mk)**

……

Reason. **(1mk)**

……

……

c) i) What is the mode of pollination of J. **(1mk)**

……

ii) Give a reason for your answer in (i) above. **(1mk)**

……

……

d) Describe the following parts: **(2mks)**

i) Corolla

……

……

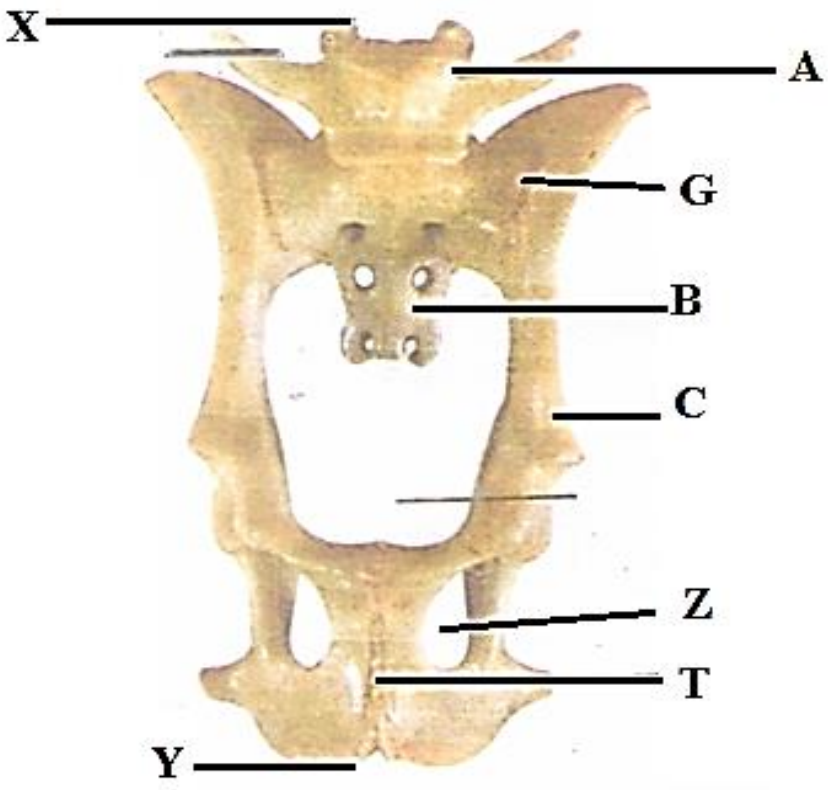
ii) Androecium

……

……

e) Carefully open T and remove the petals. Remove one stamen and make a well-labelled diagram. Indicate the magnification. **(4mks)**

3. Study the photograph below and answer the questions that follow:



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a) Name the three bones labelled A, B and C. **(3mks)**

A……

B……

C……

b) Name the cavity Z and state its role. **(2mks)**

……

……

c) Name the structure labelled T and state the role it plays in female mammals. **(2mks)**

……

……

d) In the photograph show with letter K where ball and socket joint is formed and name the bone that forms the joint. **(2mks)**

e) Give one name of the structure formed by bones C, G and T. **(1mk)**

……

f) i) Where is it found in the mammalian body. **(1mk)**

……

ii) The actual length of the specimen from points X and Y is 20.8cm. Calculate the magnification of the photograph. **(2mks)**

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KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

CHEMISTRY

233/1

PAPER 1 (THEORY)

TIME: 2 HOURS

NAME……

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INDEX NO…… **ADM NO**……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *Write your name and index number in the spaces provided above*

b) *Sign and write date of examination in the space provided.*

c) *All working must be clearly shown where necessary.*

d) *Mathematical tables and silent electronic calculations may be used*

e) *Answer all questions in English.*

For examiners use only

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1-29	80	

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1. The following are atomic and ionic radii of elements in the same group of the periodic table. The letters are not actual symbols of the elements

Elements	Atomic radius	Ionic radius
A	0.133	0.216
B	0.114	0.195
C	0.099	0.181

a) Identify the strongest oxidizing agent. **(1 mark)**

……

b) Give reasons for answer in (a) above? **(1mark)**

……

……

c) Which element has the highest atomic number? Explain? **(1mark)**

……

……

2. P, Q and S are solutions with pH values

Solutions	pH value
P	7.0
Q	6.5
S	5.0

a) Which solution is likely to be:

i. Water obtained from location near greenhouse? **(1mk)**

……

ii. Water collected near a contact process plant. **(1mk)**

……

iii. Distilled water **(1mk)**

……

……

3. Write a balanced ionic equation to:

a) Explain how temporary hardness in water is removed using soda ash. **(1mk)**

……

……

b) Give one disadvantage of using hard water in washing. **(1mk)**

……

4. Draw a simplified diagram of a common Liebig condenser and show direction of water using arrows. **(2mks)**

5. Draw structures of the following compounds

i.2-chloro-4-methylpent-1-ene. **(1mk)**

ii.3-methylheptanoic acid. **(1mk)**

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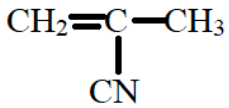
6. Study the monomer below



a) Draw the structure of its polymer. **(1mk)**

b) A sample of polymer formed from the monomer above has a molecular mass of 4020. Determine the number of monomers making up the polymer. (H=1, C=12, N=14). **(2mks)**

7. Nitric (V) acid is a major product of Ostwald process with 65% purity.

a) State how its concentration is increased. **(1mk)**

……

……

b) What gives a yellow colour of the acid? How is it removed? **(2mks)**

……

……

……

8. Name the type of artificial Name the type of artificial radioactivity represented by each of the following nuclear equations.

a)

i. $^{3}_{1}H + {}^{2}_{1}H \rightarrow {}^{4}_{1}He + {}^{0}_{n} + energy$ **($\frac{1}{2}$mk)**

……

ii. $^{235}_{92}u + {}^{}_{0}In \rightarrow {}^{141}_{56}Ba + {}^{92}_{36}K + 3{}^{}_{0}In + energy$ **($\frac{1}{2}$mk)**

……

b) Give two differences between nuclear reactions and chemical reactions. **(2mks)**

Nuclear reactions	Chemical reactions
i)	
ii)	

9. Complete the table below.

Species	Number of electrons	Number of neutrons
$^{108}_{47}Ag^{+}$		

10. A given volume of ozone (O_3) diffused through a porous hole in 144 seconds. How long would it take equal volume of Sulphur (IV) oxide to pass through same hole? (O = 16, S =32)

(3mks)

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11. One way to increase the yield of methanol from hydrogen and carbon (II) oxide is to lower the temperature of the system. Why is it not advisable to lower the temperature below the optimum 250^0c. (2mks)

$$2H_{2(g)} + CO_{(g)} \rightleftharpoons CH_3OH_{(g)} \qquad \Delta H = -90vJ/mole$$

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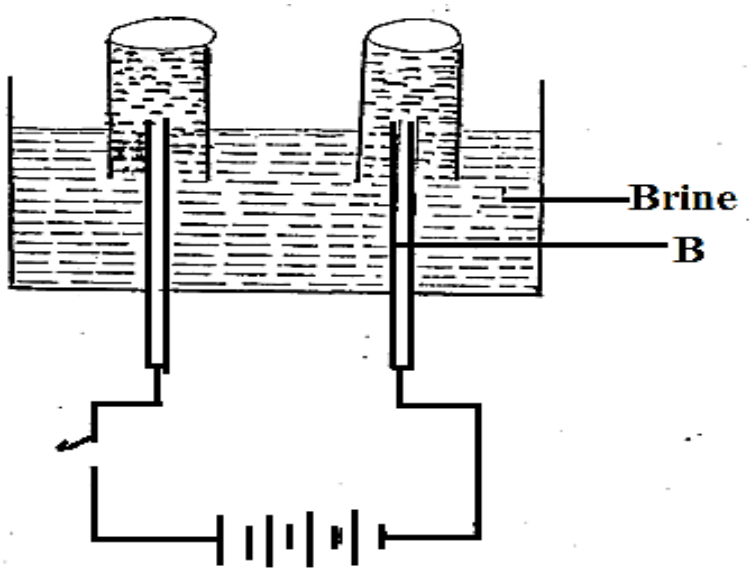
12. The apparatus below was used to investigate products formed during electrolysis of brine (concentrated sodium chloride).



a) Write equation at electrode B. **(1mk)**

.....

.....

b) If electrode B was replaced with mercury electrode. Name product formed? Explain**.** **(2mks)**

.....

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.....

13. A solution contains 7.5g of solute X in $20cm^3$ of water. When the solution is cooled, crystals of X begin to appear at 10^0c. Determine solubility of solute X at 10^0c. **(2mks)**

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14. Explain the difference in melting point of magnesium oxide 3080^0c and phosphorous (V) oxide 563^0c. **(2mks)**

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15. How would you confirm presence of lead in an ore? **(3mks)**

……

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……

16. Why do latent heat of fusion and latent heat of vaporization increase from sodium to aluminum in third period. **(2mks)**

……

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17. a) Write an equation for reaction between chlorine and hot concentrated sodium hydroxide. **(1mk)**

……

……

b) Explain how chlorine is used in water treatment. **(1mk)**

……

……

……

18. A fixed mass of a gas occupies $300cm^3$ at 15^0c and 740mmHg. At what temperature will the gas occupy 450^0c at pressure of 780mmHg? **(3mks)**

……

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19. When a sample of hydrated Iron (II) sulphate ($FeSO_4.nH_2O$) was heated until a constant was obtained the following data was recorded.

a) Mass of evaporating dish = 50.00

b) Mass of evaporating dish + hydrated salt = 55.20

c) Mass of evaporating dish + residue = 52.84.

Calculate value of n. (Fe = 56, S = 32, O=16, H=1). **(3mks)**

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20. a) Define the term standard molar heat of formation. **(1mk)**

……

……

b) Draw an energy cycle diagram to show how the standard heat of formation of ethane (C_2H_6) can be determined from standard heat of combustion of its elements. **(2mks)**

21. When a piece of potassium metal is placed in water, it becomes "ball like" and darts on the surface of water as it gets diminished. Explain why the metal become "ball like**".** **(2mks)**

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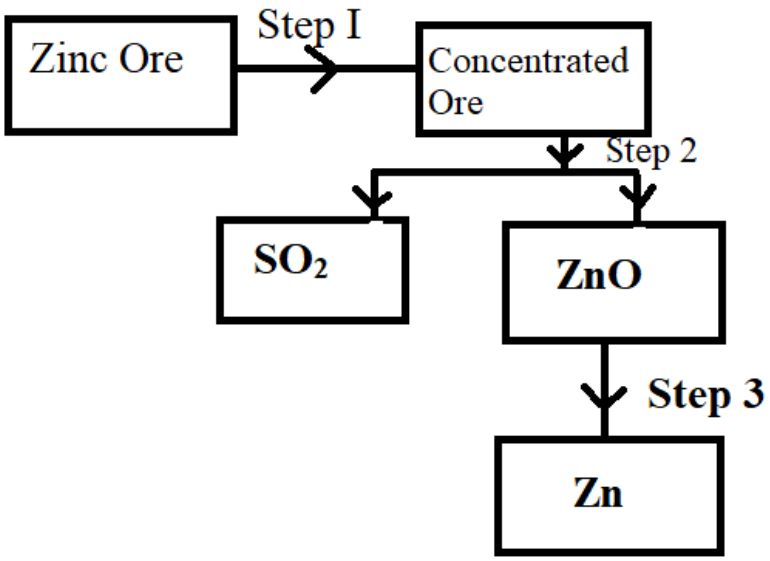
……

22. The flow chart below shows steps in extraction of Zinc study it and use it to answer questions that follows.



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i. Name the process in Step I. **(1mk)**

……

ii. Write a balanced chemical equation in Step 2. **(1mk)**

……

……

iii. Name the ore used in extraction of Zinc in above flow chart. **(1mk)**

……

23. A mass of 3.2g of XOH reacts completely with $20cm^3$ of 2.0M $H_2SO_{4(aq)}$

i. Write an equation for the reaction. **(1mk)**

……

……

ii. Calculate the relative atomic mass of X in the formula XOH. (O=16, H=1). **(3mks)**

……

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……

24. A Compound whose general formula is $M(OH)_3$ reacts as shown below:

a) $M(OH)_{3(s)} + OH^-_{(aq)} \rightarrow M(OH)^-_{4(aq)}$

b) $M(OH)_{3(s)} + 3H^+_{aq} \rightarrow M^{3+}_{(aq)} + 3H_2O_{(l)}$

i. What name is given to compounds which behave like M (OH) in the two equations above?

(1mk)

……

ii. Name two elements whose hydroxide behave like that of M. **(2mks)**

……

……

25. Diamond and graphite are allotropes of carbon.

a) What are allotropes? **(1mk)**

……

……

b) Explain why graphite conducts electricity while diamond does not? **(2mks)**

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26. A piece of blue and red litmus paper were placed in a beaker containing water into which aluminum chloride had been dissolved.

i. Is dissolving aluminum chloride in water physical or chemical process. **(1mk)**

……

……

ii. State and explain the observation. **(1mk)**

……

……

……

27. Consider electrochemical cell below

$$Zn_{(s)} / Zn^{2+}_{(aq)} // Pb^{2+}_{(aq)} / Pb_{(s)}$$

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i. Name the electrode in above cell. **(1mk)**

……

ii. Write half ionic equation involving oxidation in above electrochemical cell**.** **(1mk)**

……

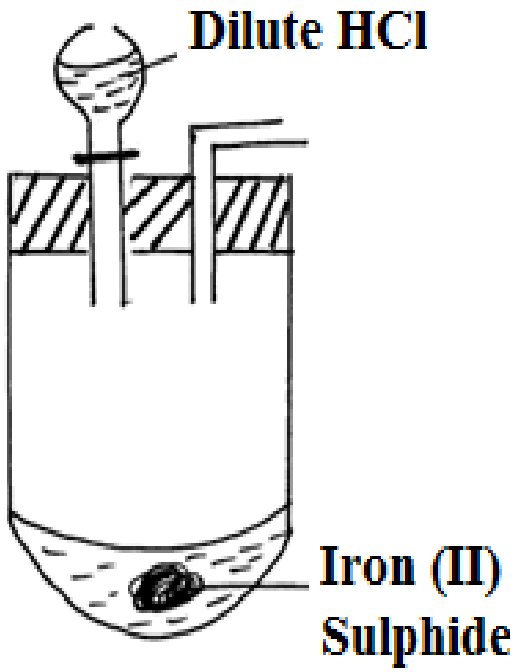
……

iii. Name the possible salt bridge. **(1mk)**

……

……

28. The diagram below is a part of a set up used in preparation of a particular gas in the laboratory.



a) Complete the diagram to show how dry sample of gas can be collected. **(3mks)**

b) Write a balanced chemical equation for the reaction in the diagram. **(1mk)**

……

……

29. When SO_2 sulphur (IV) oxide gas is bubbled through acidified $KMnO_4$ solution the reaction takes place according to the following equation.

$$2MnO^{-}_{4(aq)} + SO^{2-}_{2(aq)} + 6H^{+}_{(aq)} \rightarrow 2MnO_{4(aq)} + SO^{2-}_{4} + 3H_2O_{(l)}$$

a) Calculate the oxidation number of manganese in:

i. MnO_4^- **(1mk)**

……

……

……

……

……

MnO_4 **(1mk)**

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b) During the reaction was manganese oxidized or reduced? Explain. **(1mk)**

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KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

CHEMISTRY

233/2

PAPER 2 (THEORY)

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *Write your name and index number in the spaces provided above*

b) *Sign and write date of examination in the space provided.*

c) *All working must be clearly shown where necessary.*

d) *Mathematical tables and silent electronic calculations may be used*

e) *Answer all questions in English.*

FOR EXAMINERS USE ONLY

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1-7	80	

QUESTIONS

1. (a) Study the table below and answer the questions that follows. The symbols are not the actual symbols of the elements

Element	A	B	C	D	E	F
Electronic configuration of the ion	2.8	2.8.8	2.8	2.8.8.	2.8	2.8.8
Valency and type of ion	Divalent cation	Divalent anion	Monovalent cation	Monovalent anion	Trivalent cation	Trivalent anion

i) Arrange the elements A,B,C,D,E and F in terms of increasing atomic sizes **(1mk)**

……

ii) Name the period of the periodic table to which these elements belongs? **(1mk)**

……

iii) Write an equation for the reaction between elements C and D **(1mk)**

……

……

iv) Compare the electrical conductivity of elements A and E. Explain **(2mks)**

……

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……

v) Compare the first ionization energies of elements A and C. Explain. **(2mks)**

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vi) Which element sit re strongest oxidizing agent **(1mk)**

……

……

b.) Study the information below and answer the question that follow

Formula of oxide	NaCl	$MgCl_2$	$AlCl_3$	$SiCl_4$	PCl_3	SCl_2
Melting point ^oC	801	714	_	-70	-91	-80
Formula of oxide	Na_2O	MgO	AlO_3	SiO_2	P_4O_{10}	SO_2
Melting point ^oC	1190	3080	2050	1730	560	-73

b. Aluminum chloride($AlCl_3$) has an unexpected bond type and structure

i.) State the type of bond and the structure in $AlCl_3$ **(1mk)**

……

……

ii.) What type of bond would $AlCl_3$ be expected to have? Give a reason **(1mk)**

……

……

iii.) Why is the melting point of $AlCl_3$ not indicted in the table above **(1mk)**

……

……

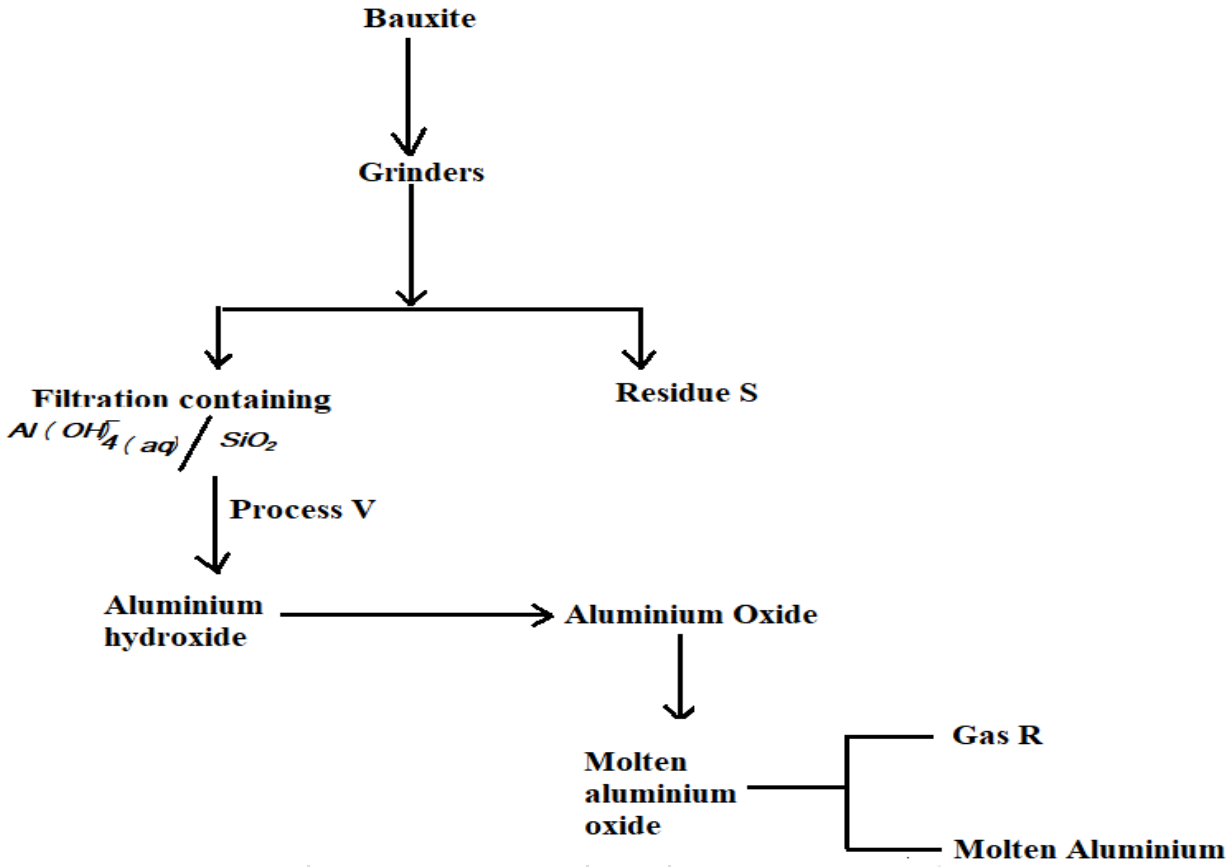
iv.) Silicon (iv) chloride get hydrolyzed by water. Write a balanced equation for this reaction **(1mk)**

……

……

……

2.) The following flow chart is an illustration of the extraction of aluminum from its ores



i) Give the formula of bauxite **(1mk)**

……

ii.) Name the two main impurities in bauxite **(2mks)**

……

……

iii.) Write the chemical equation for the reaction taking place during process V **(1mk)**

……

……

(iv) The melting point of aluminum oxide is quite high. Explain what is done to make the process cost effective. **(1mk)**

……

……

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(v) Name residue S

……

(vi) Write down the half equations for the reaction at the **(2mks)**

……

……

……

(vii) In the electrolysis stage the graphite electrode used at the anode is periodically replaced anode at regular intervals **(1mk)**

……

……

……

(viii) Give two properties that makes aluminum and alloys suitable for making aircraft bodies **(2mks)**

……

……

……

(3a.) A form four students carried out an experiment to extract oil from sim sim seeds. **(1mk)**

i.) Name two apparatus he used to crush the simsim seeds **(1mk)**

……

……

ii.) Name suitable solvent used **(1mk)**

……

iii.) Name the class or organ compounds in which vegetable oil belongs to **(1mk)**

……

(iv) Describe the process of preparing soapy detergents using vegetable oil **(3mks)**

……

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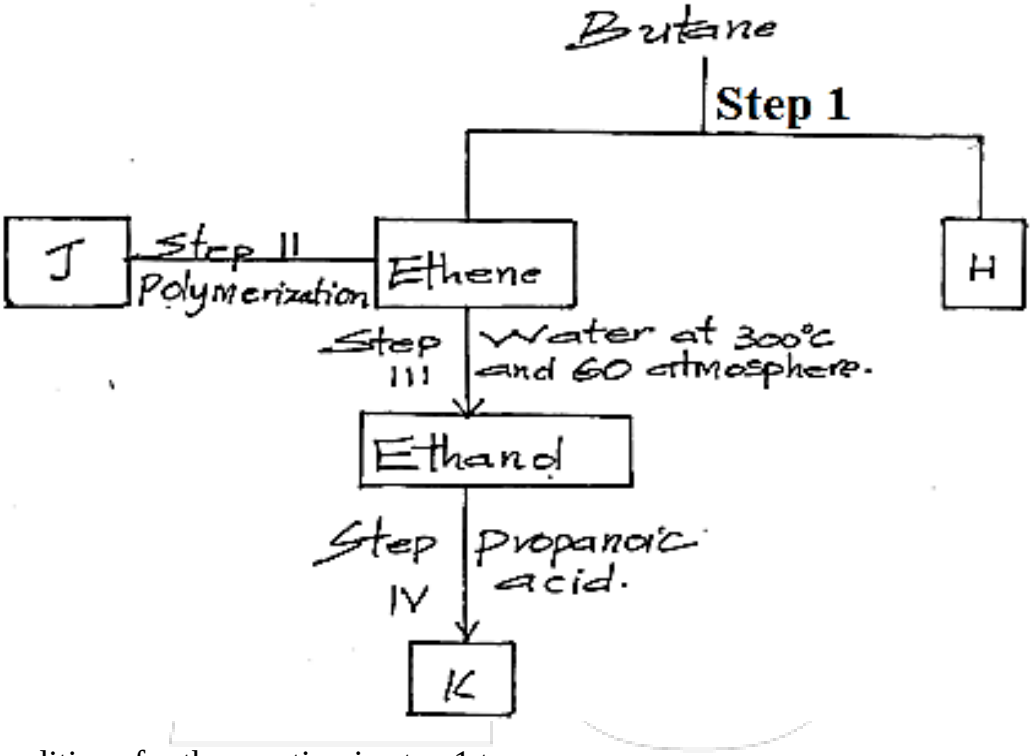
b.) Study the flow chart below and answer the question that follow



(i) State the conditions for the reaction in step 1 to occur **(1mk)**

……

……

(ii) Identify substance H **(1mk)**

……

(iii) Give one disadvantage of the continued use of substances such as J **(1mk)**

……

……

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(iv) The relative molecular mass of J is 16800. Calculate the number of monomers that make up J **(2mks)**

……

……

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……

……

4. Study the standard electrode potentials of the half – cells given below and answer the questions that follow. The letters do not represent the actual symbols of the elements)

	E^{Θ} Volts
$N^{+}_{(aq)} + e^{-} \rightleftharpoons N_{(S)}$	-2.92
$J^{+}_{(aq)} + e^{-} \rightleftharpoons J_{(s)}$	+0.52
$K^{+}_{(aq)} + e^{-} \rightleftharpoons \frac{1}{2}K_{2(g)}$	0.00
$G^{+}_{(aq)} + e^{-} \rightleftharpoons G_{(s)}$	+0.80
$M^{2+}_{(aq)} + 2e^{-} \rightleftharpoons M_{(s)}$	-.0.44

i) Identify the strongest oxidizing agent. Give a reason for your answer **(2mks)**

……

……

……

……

ii) Which two half- cells would produce the highest potential difference when combined **(1mk)**

……

……

……

iii) Draw an electrochemical cell for the above. Show on the diagram flow of electrons **(3mks)**

iv) Write the cell notation representation for the above cell **(1mk)**

……

……

v.) Calculate the e.m.f of the cell above **(1mk)**

vi.) Give two functions of the salt bridge **(2mks)**

……

……

……

(vii) Determine the oxidation number of the halogen in $I0_4^-$ **(1mk)**

……

……

……

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viii) Give on use f electrolysis **(1mk)**

……

……

5. The table below shows the observations made when aqueous ammonia and sodium hydroxide solutions were added to cations of A,B,C and D

Cation of	Sodium hydroxide in excess	Ammonia solution in excess
A	Blue precipitate	Blue precipitate dissolves to form a deep blue solution
B	White precipitate dissolve to form a colourless solution	White precipitate dissolve to form a colourless solutuion
C	White precipitate dissolved to form a colourless solution	White precipitate
D		

(i) Identify the cations present in **(2mks)**

B-

C-

(ii) Write the formula of the complex ion present in the deep blue solution of cation A **(1mk)**

……

……

iii.) Given that the cation of D have Na + ions complete the table above (**1mk)**

……

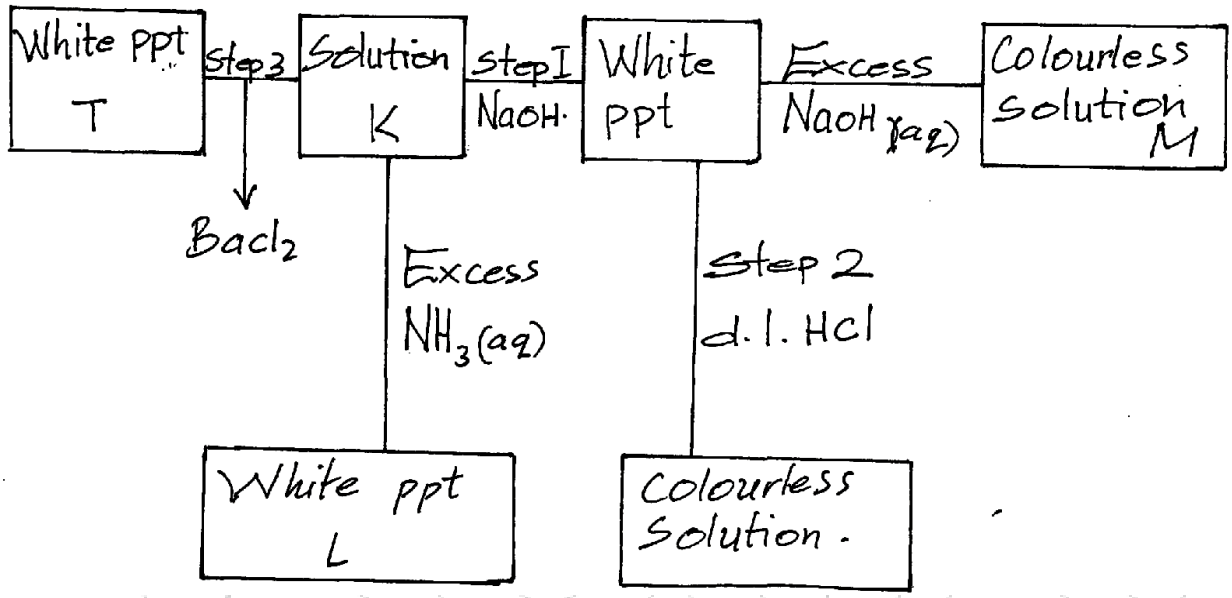
……

iv.) State any one use of complex ions **(1mk)**

……

……

5(b)



i.) Name precipitate L **(1mk)**

……

……

ii.) Write the ionic equation for the formation of L **(1mk)**

……

……

iii.) Name the type of reaction in step 2 **(1mk)**

……

……

iv.) Name any other solution that can be used in step 2 above **(1mk)**

……

……

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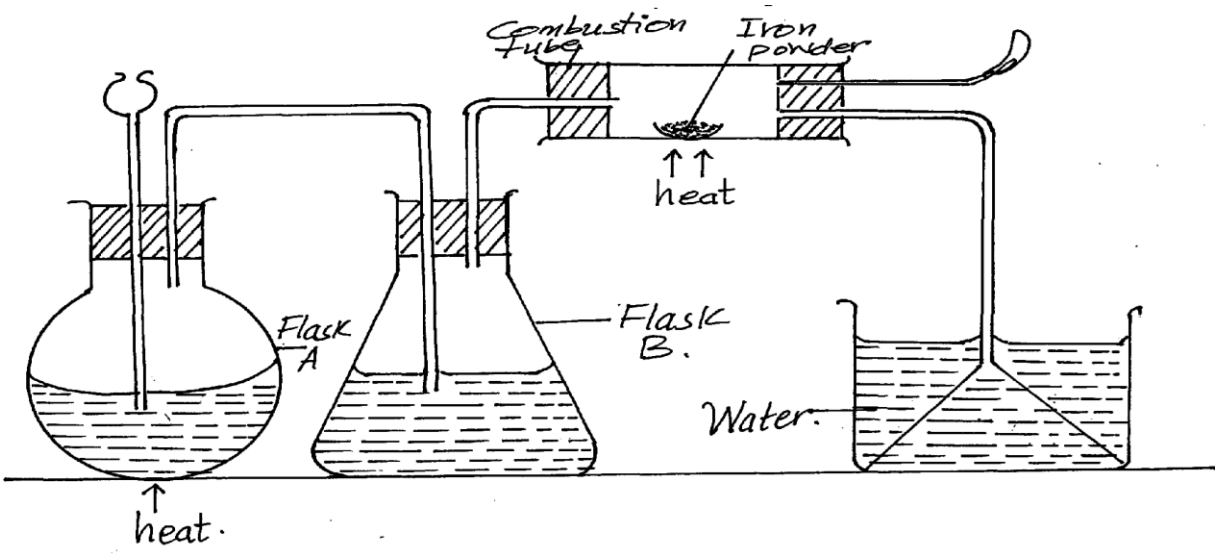
6. The diagram below was used to prepare hydrogen chloride gas which was passed over heated iron powder



a.i.) State a pair of reagents that will produce hydrogen chloride gas in flask A **(1mk)**

……

ii.) Name the substances in flask B **(1mk)**

……

iii.) State the observations made in the combustion tube **(2mk)**

……

……

……

iv.) Write the equation for the reaction in the combustion tube **(1mk)**

……

……

v.) Describe a chemical test for hydrogen chloride gas **(2mks)**

……

……

……

b i.) Identify the gas that burns at the jet **(1mk)**

……

ii.) Explain why the gas in (b) is burnt **(1mk)**

……

……

c.) Another experiment was carried out where hydrogen chloride gas was bubbled through methylbene and water in separate beakers the resulting solutions were tested with blue litmus paper and marble chips **(2mks)**

Solution of hydrogen chloride gas	Blue litmus paper	Marble chips
Water		
Methylbenzene		

The thermodynamic equation for the formation of ammonia in the Harber process is as follows.

$$\mathbf{N}_{2g)} + 3H_{2(g)} \rightleftharpoons 2NH_{3(g)} \qquad \Delta H = -92KJ/mol$$

i.) If the system is allowed to attain equilibrium. State and explain how the following factors would affect the yield of ammonia

a.) Increase in temperature **(1mk)**

……

……

……

b.) Increase in pressure **(1mk)**

……

……

……

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c.) Using a more efficient catalyst **(1mk)**

……

……

ii.) In an experiment to study the rate of reaction 1g of Magnesium ribbon was reacted with excess 2M hydrochloric acid. The results obtained were recorded as shown in the table below.

Time(s)	0	20	40	60	80	100	120	140	160	180
Volume of gas produced (cm^3)	0	11	20	26	31	35	38	39	40	40

(a) Give a reason why Magnesium ribbon is normally cleaned with sand paper before being put into the acid **(1mk)**

……

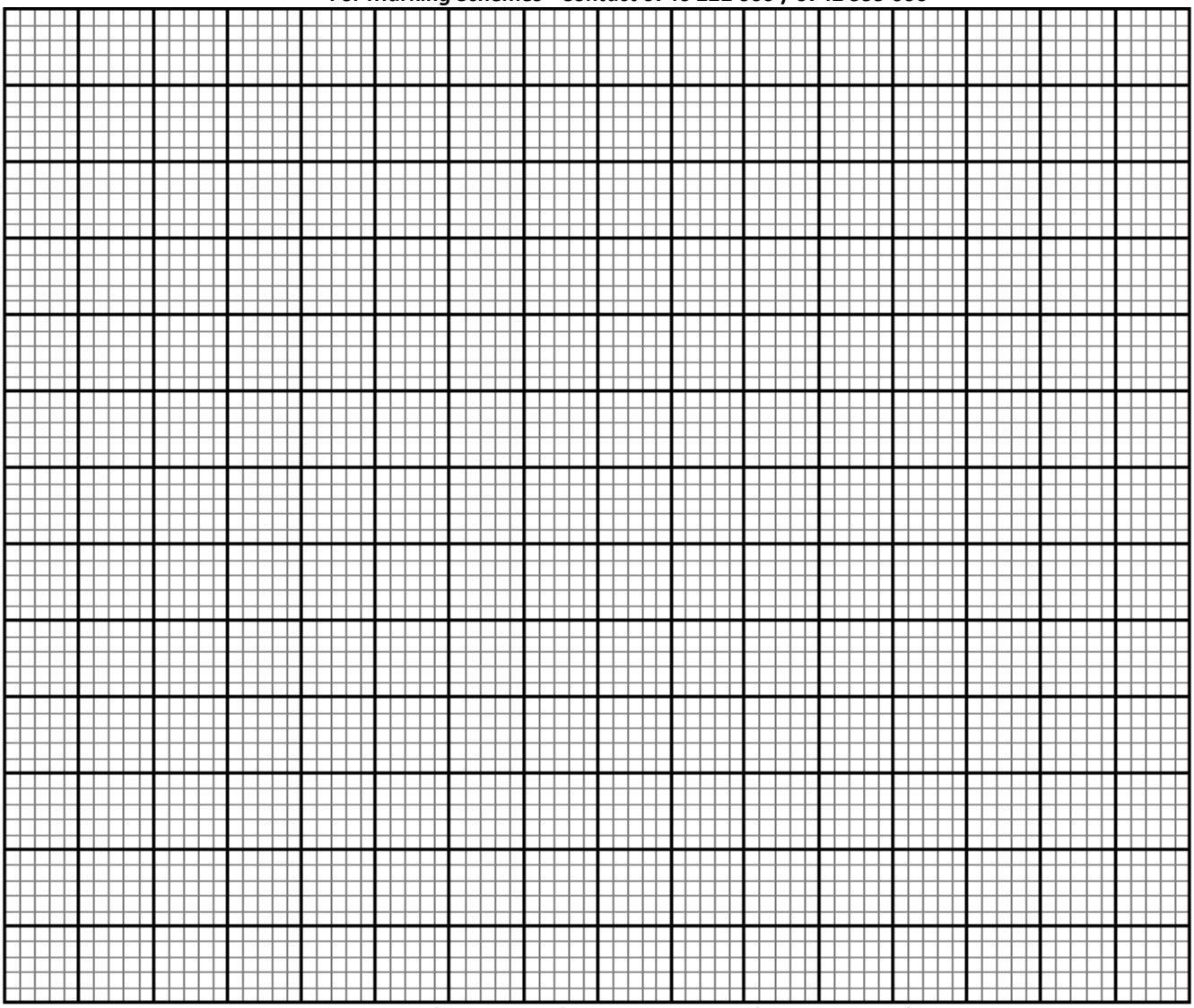
……

b.) Write a balanced chemical equation for the reaction **(1mk)**

……

……

c.) On the grid provided plot a graph of volume of the gas produced against the time taken **(3mk)**



iii.) From the graph determine the rate of reaction at

a.) 30 seconds

b.) At 120 seconds

c.) Give a reason for the difference between the two values

……

……

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KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

CHEMISTRY

233/3

PAPER 3 (PRACTICAL)

TIME: 2¼ HOURS

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CONFIDENTIAL

- Solution A-120cm^3
- Solution C -60cm^3
- 5cm^3 of absolute ethanol
- About 0.5gms $NaHCO_3$
- About 0.2g solid E
- About 1g solid P
- Pipette
- Pipette filler
- 250ml volumetric flask
- Means of labelling
- Burette
- Filter funnel
- Conical flasks – 2pcs
- 100 ml plastic beaker
- Thermometer
- 20ml syringe
- Boiling tube -2pcs
- Filter paper -2pcs
- 6 test tubes in a rack
- Wooden splint
- Distilled water in wash bottle
- Metallic spatula
- Test tube holder

Access to;

- Phenolphthalein indicator
- Source of heat
- 2M NH_3
- 2M HCl
- $Ba(NO_3)_2$
- Universal indicator and pH chart

Preparation of solutions

- Solution A -0.8 M NaOH
- Solution C -1M H_2SO_4
- Solid P –mixture of $ZnCO_3$ and $ZnSO_4$ in the ratio 2:1
- Solid E is 0.2 grams Maleic acid

KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

CHEMISTRY

233/3

PAPER 3 (PRACTICAL)

TIME: 2¼ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

1. *Write your name, admission number in the space provided.*
2. *Answer all the questions in the spaces provided*
3. *All working must be clearly shown where necessary.*
4. *You are not allowed to start working with the apparatus for the first 15 minutes. This time is to enable you read the question paper and make sure you have all the requirements.*

FOR EXAMINERS USE ONLY

QUESTION	MARKS	CANDIDATES SCORE
1	23	
2	10	
3	07	
TOTAL	**40 MARKS**	

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1. You are provided with the following

Sodium hydroxide solution A
0.1M HCl labelled B
An alkanoic acid labelled C

You are required to

i) Standardize solution A

ii) Determine the mole ratio of reaction between sodium hydroxide and the alkanoic acid

iii) Calculate the molarity of solution C

iv) Determine the molar enthalpy of neutralisation of the alkanoic acid and sodium hydroxide

PROCEDURE 1

Using the pipette, place 25cm^3 of solution A into a 250ml volumetric flask .Add distilled water as you shake up to the 250ml mark .Label the solution formed as D.

Fill the burette with solution B .Rinse the pipette and use it to transfer 25cm^3 of solution D into a conical flask. Add 3 drops of phenolphthalein indicator and carry out titration .Repeat the procedure twice to obtain concordant values .Record the results below

	1	2	3
Final burette reading (cm^3)			
Initial burette reading (cm^3)			
Volume of solution B used (cm^3)			

(4mk)

a) Determine the average titre volume **(1mk)**

……

……

……

b) Calculate the number of moles of

i) HCl that reacted **(1mk)**

……

……

……

……

ii) NaOH in the 25cm^3 of solution **D** **(1/2mk)**

……

……

……

iii) Molarity of NaOH solution **A** **(1mk)**

……

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……

PROCEDURE 2

Rinse the burette and fill it with solution C .Run 16cm^3 of solution C into a 100ml plastic beaker .Using a thermometer measure its temperature and record it in the table 2 below as initial .Add 4cm^3 of solution A using a syringe .Stir with the thermometer immediately and note the highest temperature reached .Record it in the table as final temperature .Repeat the procedure with other volumes of A and C as shown in the table and complete it . Rinse the beaker and the thermometer after each experiment

Volume of solution (cm^3)	16	12	8	6	4	2
Volume of solution A (cm^3)	4	8	12	14	16	18
Final temperature (°C)						
Initial temperature (°C)						
Change in temperature						

d) On the grid below, plot the graph of change in temperature against volume of sodium hydroxide solution **A** **(3mks)**

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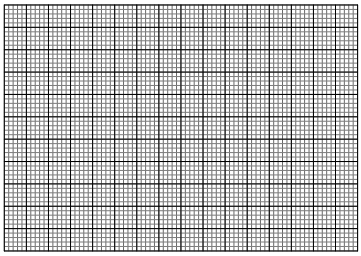

e) From your graph determine,

i) The volume of sodium hydroxide solution A required to neutralize the alkanoic acid **(1/2mk)**

……

……

……

ii) Highest change in temperature ΔT **(1/2mk)**

……

……

……

f) Determine the volume of the alkanoic acid solution C, used in the neutralization **(1/2mk)**

……

……

……

g) Calculate the;

i) Concentration of the alkanoic acid solution C, given that the ratio of volume of alkali to the volume of acid is also the mole ratio **(2mks)**

……

……

……

……

ii) Molar enthalpy of neutralisation of the acid by sodium hydroxide **(2mks)**

(C=4.2J/g/k, density of solution =1g/cm^3)

……

……

……

……

……

2. You are provided with solid P .Carry out the following tests and write your observations and inferences in the spaces provided

a)Place all the solid P in a boiling tube .Add about 10cm^3 of distilled water and shake the mixture thoroughly .Filter the mixture into another boiling tube .Retain the filtrate for use in the test 2 (b) below and dry the residue using a filter paper

i) Transfer about half of the residue in a dry test tube .Heat the residue strongly and test any gas produced using a burning splint

Observations	**Inferences**
1mk	**1mk**

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ii) Place the rest of the residue in a dry test tube .Add 2cm^3 of 2M hydrochloric acid .Retain the mixture for test (iii) below

Observations	Inferences
1mk	**1mk**

iii) To the solution formed in (ii) above, add aqueous ammonia drop wise till in excess

Observations	Inferences
1mk	**1mk**

b) i) To above 2cm^3 of the filtrate obtained in a) above add aqueous ammonia drop wise until in excess

Observations	Inferences
1mk	**1mk**

ii) To about $2cm^3$ of the filtrate, add about $2cm^3$ of 2M hydrochloric acid

Observations	Inferences
1mk	**1mk**

iii) To 2cm3 of filtrate add two drops of barium nitrate solution **(2mks)**

Observations	Inferences
1/2mk	**1/2mk**

3. You are provided with solid E carry out the following test and record your observations and inferences in the spaces provided

a) Place about one half of solid E in a dry test tube .Retain the other half for use in (b) below .Add all of the absolute ethanol provided to solid E in a test tube shake the mixture

Observations	Inferences
1/2mk	**1/2mk**

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Divide the mixture formed into two portions

i) Determine the pH of the first portions

Observations	Inferences
1/2mk	**1/2mk**

ii) To the second portion, add about one half of sodium hydrogen carbonate provided

Observations	Inferences
1mk	**1mk**

b) Place the remaining solid E in a boiling tube 10cm^3 of distilled water and shake. Boil the mixture and divide it into 3 portions while still warm

i) To the first portion add the remaining sodium hydrogen

Observations	Inferences
1/2mk	**1/2mk**

ii) The second portion add three drops of acidified $K_2Cr_20_7$ **(1mks)**

Observations	Inferences
1/2MK	**1/2mk**

iii) To the third portion add 5 drops of Bromine water **(1mk)**

Observations	Inferences
1/2MK	**1/2mk**

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KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

PHYSICS

232/1

PAPER 1 (THEORY)

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

Instruction to The Candidates

a) *Write your* ***name*** *and* ***ADM number*** *in the spaces provided above.*

b) *Sign and write the* ***date*** *of examination in the spaces provided above.*

c) *This paper consists of* ***two*** *Sections* ***A*** *and* ***B****.*

d) *There are 14 printed pages, with 18 questions check to confirm that your paper is complete.*

e) *Answer* ***all*** *the questions in sections* ***A*** *and* ***B*** *in the spaces provided.*

f) *All working must be clearly shown in the spaces provided.*

g) *Mathematical tables and electronic calculators* ***may be*** *used.*

For Examiners Use Only

Section	Question	Total Score	Candidates Score
A	1-13	25	
B	14	08	
	15	09	
	16	08	
	17	09	
	18	06	
	19	07	
	20	08	
Total		80	

For Marking Schemes - Contact 0746 222 000 / 0742 999 000

SECTION A (25 MARKS)

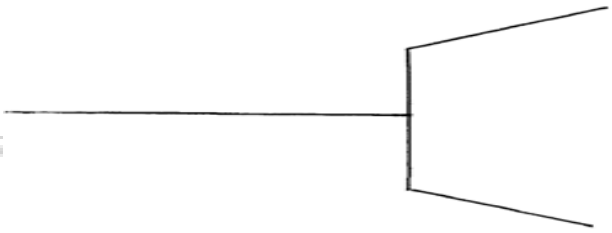
Answer all Questions in the space provided

1. State the branch of physics applied by a soldier when firing a gun. **(1mrk)**

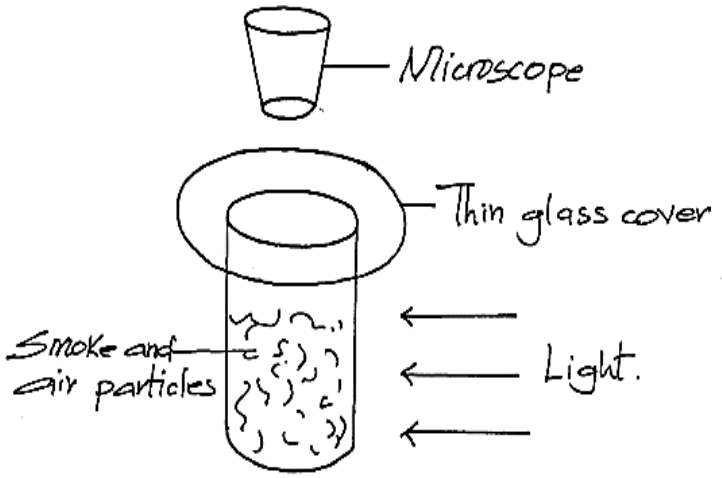
……

……

2. The figure bellow shows part of micrometer screw gauge with 100 divisions on the thimble scale. Complete the diagram to show a reading of 5.79mm **(2mks)**



3. The diagram bellow shows apparatus used to observe the behavior of smoke particles in air.



i) Why are smoke particles suitable for use in this experiment? **(1mk)**

……

……

ii) What difference if any would be seen in the motion of the smoke particles if a source of light of weaker energy was used **(1mk)**

……

……

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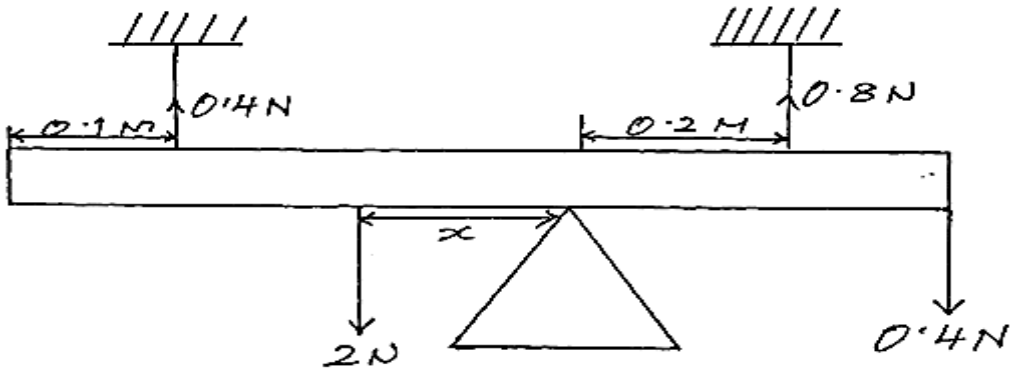
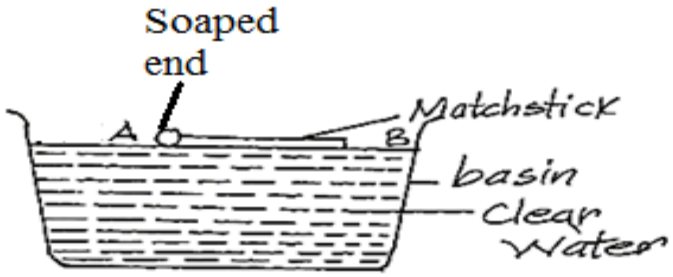
4. The diagram bellow shows a uniform meter rule pivoted at its center and balanced bay the forces shown. **(3mks)**



Determine the value of ***x*.**

5.a) The Figure below shows a matchstick soaped on one end and placed on the surface of water as shown below. If soap solution is poured at A



The matchstick is observed to move in a certain direction.

i) State the direction (A or B) **(1mk)**

……

……

ii) Explain your answer in (i) above. **(1mk)**

……

……

b) A physics teacher writing on a board uses a piece of chalk or white board marker. Explain why any ink or chalk particles sticks on the board. **(1mk)**

……

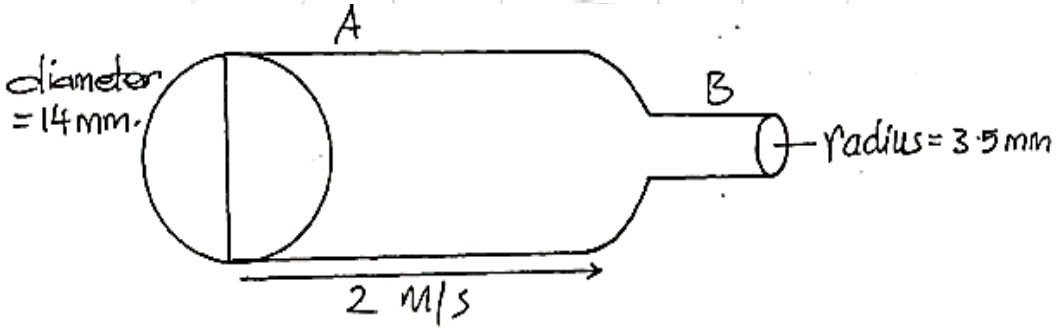
……

6. A student pulls a block of wood along a horizontal surface by applying a constant force. State the reason why the block moves at a constant velocity. **(1mk)**

……

……

7. Water moves through a horizontal pipe of varying crossection area as shown below.



Determine the velocity of the water in pipe B given the velocity of A is 2m/s **(3mks)**

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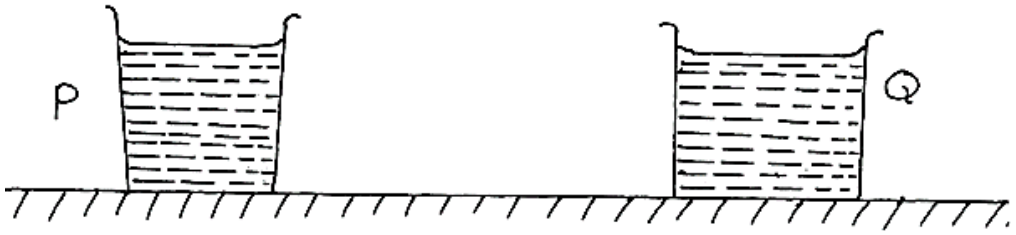
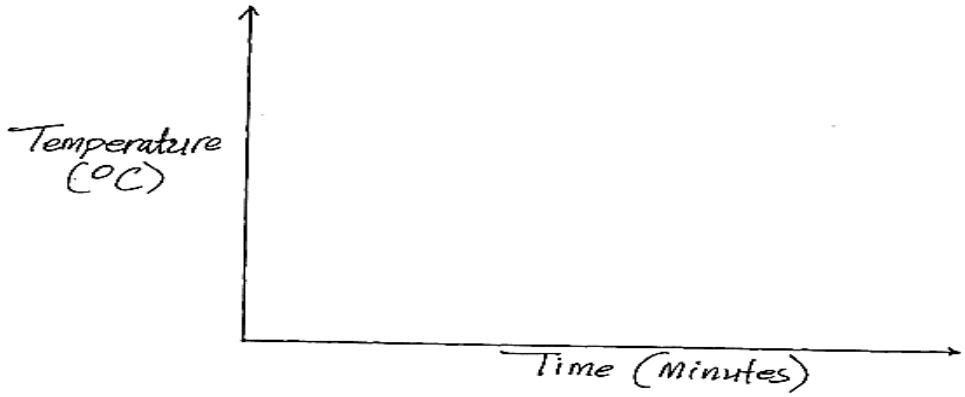
8. Equal amount of hot water at 100°C is poured in to vessels P and Q as shown below and left to cool up to the room temperature. P is painted black and Q is polished.



The readings of the thermometer are taken at interval of five minutes. On the axes below, sketch a graph of temperature against time for P and Q **(2mks)**



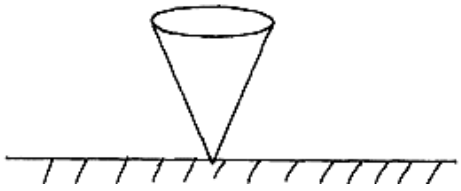
9. In a ball and ring experiment the ball goes through the ring at room temperature. When it is heated it does not go through the ring but when left on the ring for some time it goes through. Explain this observation. **(2mks)**

……

……

……

10) State the type of stability shown below **(1mk)**



……

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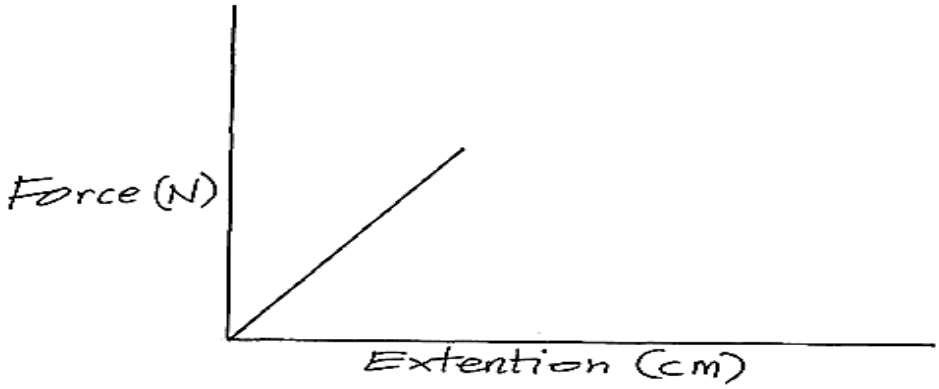
11) The graph below shows Force against extension of the spring. **(1mk)**



On the same axes sketch a graph of force against extension for a spring double the length same thickness and same material as the given spring.

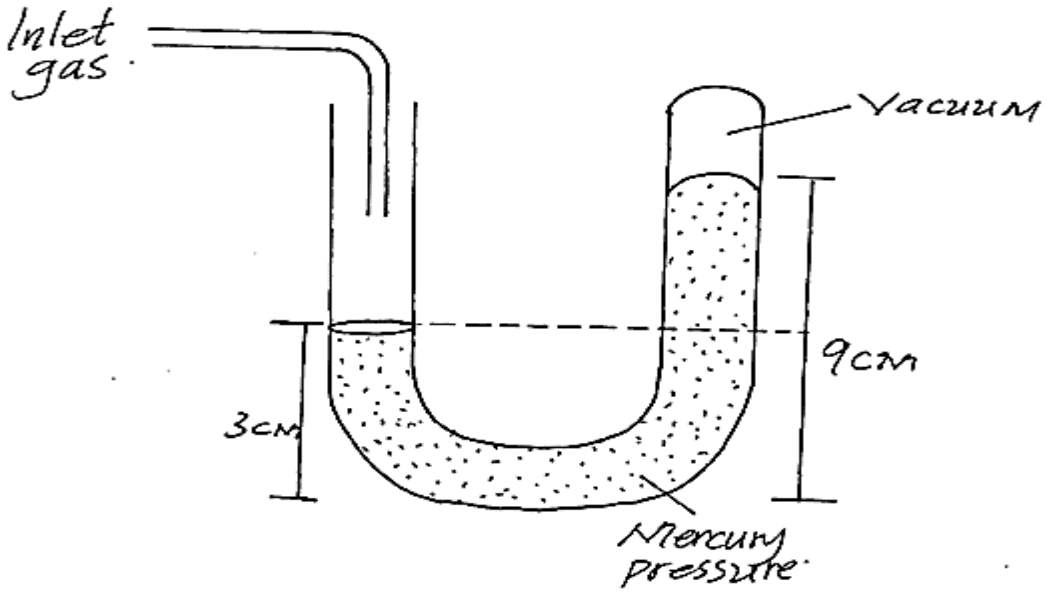
12.A small stone in your shoes is painful when you step on it but does not hurt you when removed from the shoe and placed in on the hand.Explain **(2mks)**

……

……

……

13. Consider the Figure below.



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Mercury ρ = ($13.6gcm^{-3}$) and Pa=760mmHg

Calculate the pressure of the gas in cm Hg. **(2mks)**

EXPLAIN B (55 MARKS)

Answer all question in the space provided

14.i) Define the term momentum. **(1mk)**

……

……

ii) Explain why high jumpers flexes their knees when landing on the ground. **(2mks)**

……

……

……

b) **A** body of mass 150Kg travelling at a constant velocity of 72km/h collides with a stationary object of mass 90kg. If the impact takes 3s before the two moves together at a constant velocity for 20s. Find

i) Their common velocity **(2mks)**

ii) Impulsive Force. **(3mks)**

15.i) State one similarity between boiling and evaporation. **(1mk)**

……

……

ii) Explain why pieces of ice at 0°C added to a drink at room temperature are more effective in cooling the drink than equal mass of water at 0°C. **(2mks)**

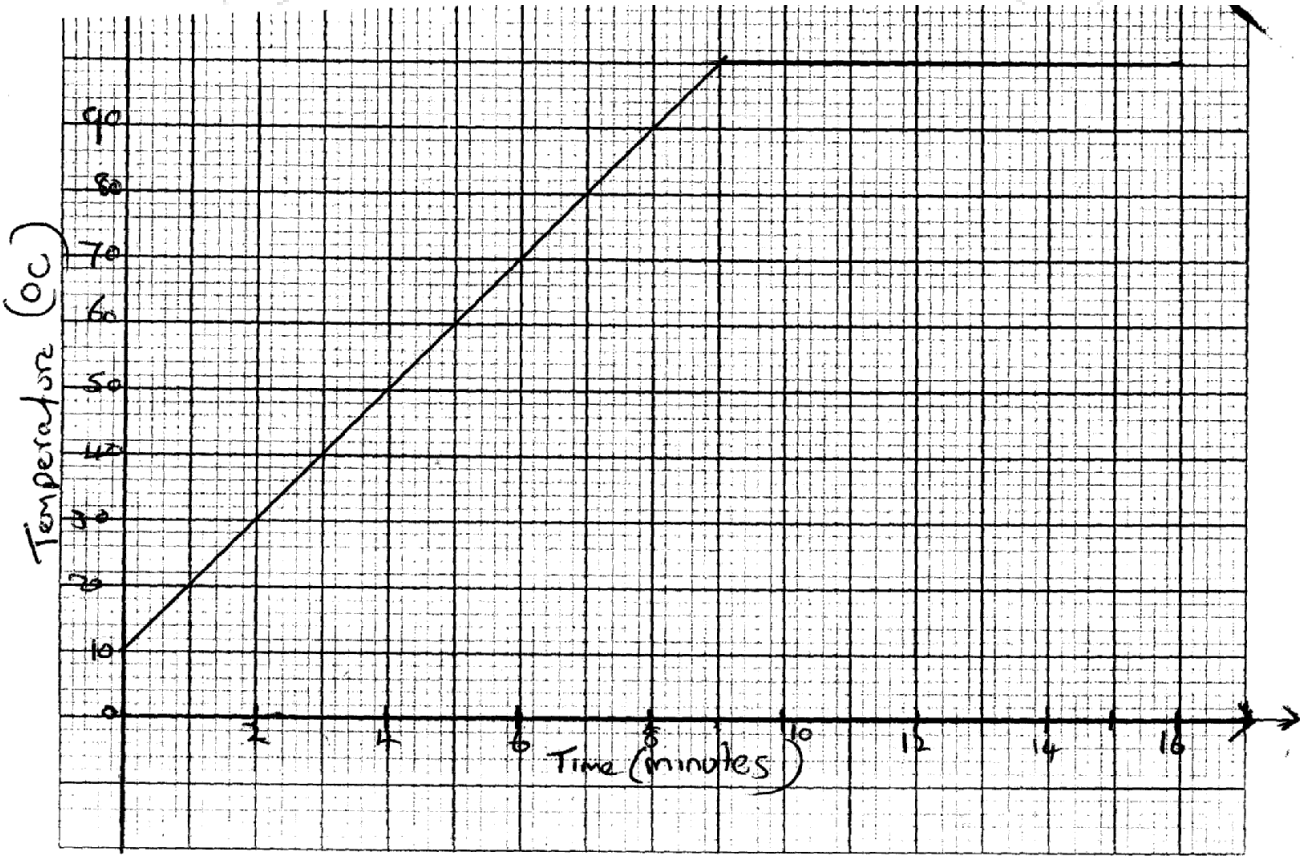
……

……

……

……

b)i) 200g of a liquid at a temperature of 10°C is poured into a well lagged calorimeter. An electric heater rated 1500W is used to heat the liquid. The graph below shows a variation of temperature of the liquid with time.



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From the graph determine the specified latent heat of vaporization assuming that the liquid evaporates. **(3mks)**

c)i) A small electric heater rated 20W 240V is immersed in crushed ice in a funnel. Before the heat is switched on, the water drops from the funnel at a rate of 0.5g/min and when the heater is working the water drop at the rate of 4g/min.

Calculate the specified latent heat of fusion. **(3mks)**

16.a) A ball is thrown verticality upwards from hands at 125m/s and the thrower receives it back.

i) Calculate the time of flight. **(2mks)**

ii) Calculate how high the ball rises **(2mks)**

b)i) A bullet is fired horizontal at a target. Neglecting air resistance, give a reason why the horizontal acceleration of the bullet is zero. **(1mk)**

……

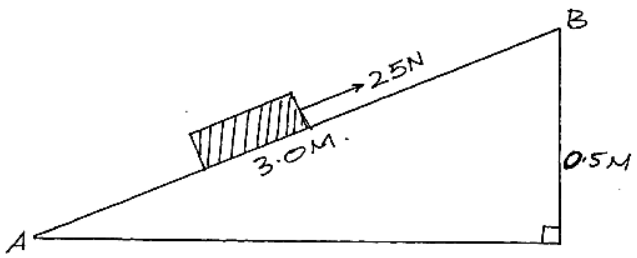
……

ii) A bullet is fired horizontally from a flat form 15m high. If initial speed is 300m/s determine maximum horizontal distance covered g=10m/s^2 **(3mks)**

17.a)i) Name the device that is used to convert electrical energy to light energy **(1mk)**

……

b) The figure below shows a load of 100N being raised by pulling it along a incline plane of length 3m.



i) Calculate the efficiency of the system **(3mks)**

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ii) Calculate the work done against the friction when moving the body from point A to B. **(2mks)**

c)i) Assuming that you know your weight, Explain how you can calculate your own power given the following:

Tape measure, stopwatch, A partner to record the time, Flight of stairs. **(3mks)**

18.a) Define the term "Absolute zero temperature" as applied in gas laws. **(1mk)**

……

……

b) **State** two assumptions used in gas laws. **(2mks)**

……

……

……

……

c) An air pump is taking in air at 1.01×10^5Pa and supplies it into a rigid container of volume 2 liters. The barrel of the pump has a volume of 0.2 liters. If the pressure in the receiver is initially at 101×10^5Pa what is the pressure in the receiver after five strokes of the pump. Assuming temperature is constant. **(3mks)**

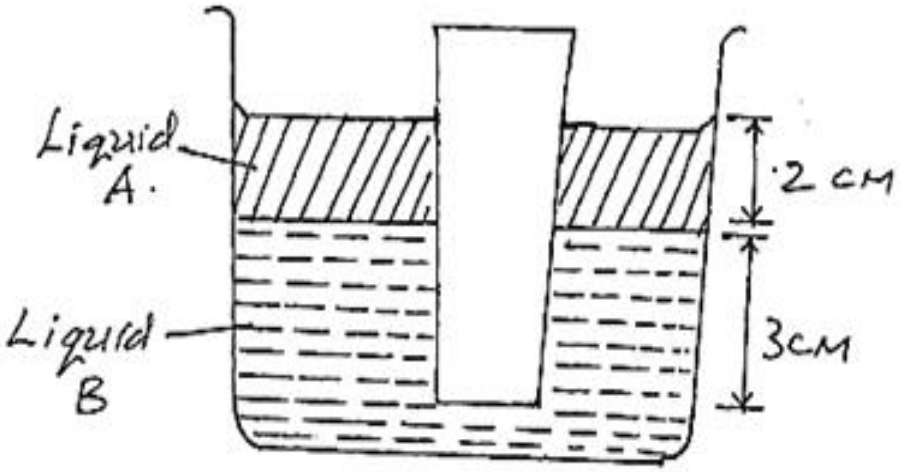
19.a) State the Archimedes principle **(1mk)**

……

……

……

b)i) The figure below shows a rectangular block of height 6cm floating. Vertically in a beaker containing two immiscible liquids A and B. The density of the liquid is 800kgm^3 and 1200kgm^3 respectively.



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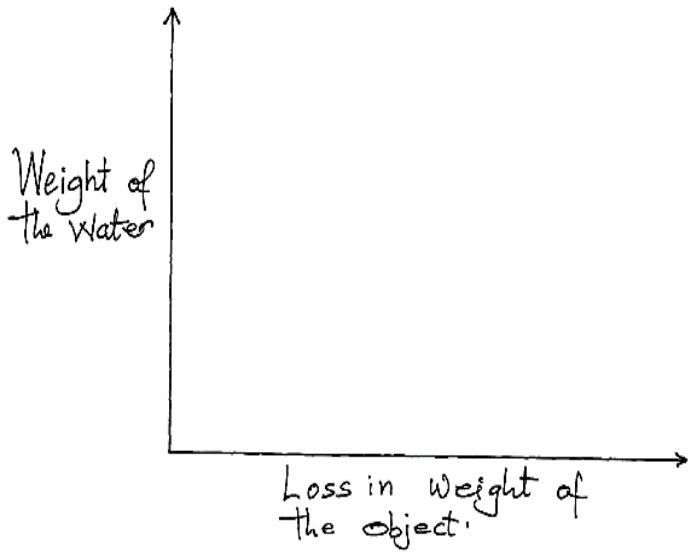
The cross-section area of the block is $2cm^2$

Determine:

i) The total weight of the liquid displaced by both liquids A and B. **(3mks)**

ii) Density of the block **(2mks)**

c) In the space provided sketch a graph of the weight of the water displaced against the lost in weight of the object when the object is lowered in the water until it is fully submerged. **(1mk)**



20.a) State two parts of the earth which have zero angular velocity of linear velocity as it completely one rotation. **(1mk)**

……

……

b) **A** particle moving along a circular path of radius 5cm describes an arch length of 2cm every 2 seconds. Determine:

i) Its Angular velocity **(2mks)**

ii) Its periodic time **(2mks)**

c) A car of mass 1500kg negotiates a bend of radius 45m on horizontal road. If the friction force between the road and the tires is 7200N, calculate the maximum speed at which the car can be driven at the bend without skidding. **(3mks)**

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KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

PHYSICS

232/2

PAPER 2 (THEORY)

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTION TO THE CANDIDATES

a) *Write your* ***name*** *and* ***ADM number*** *in the spaces provided above.*

b) *Sign and write the* ***date*** *of examination in the spaces provided above.*

c) *This paper consists of* ***two*** *Sections* ***A*** *and* ***B****.*

d) *Answer* ***all*** *the questions in sections* ***A*** *and* ***B*** *in the spaces provided.*

e) *All working must be clearly shown in the spaces provided.*

f) *Mathematical tables and electronic calculators* ***may be*** *used.*

FOR EXAMINERS USE ONLY

Section	Question	Total Score	Candidates Score
A	1-13	25	
B	14	8	
	15	9	
	16	11	
	17	14	
	18	13	
Total		80	

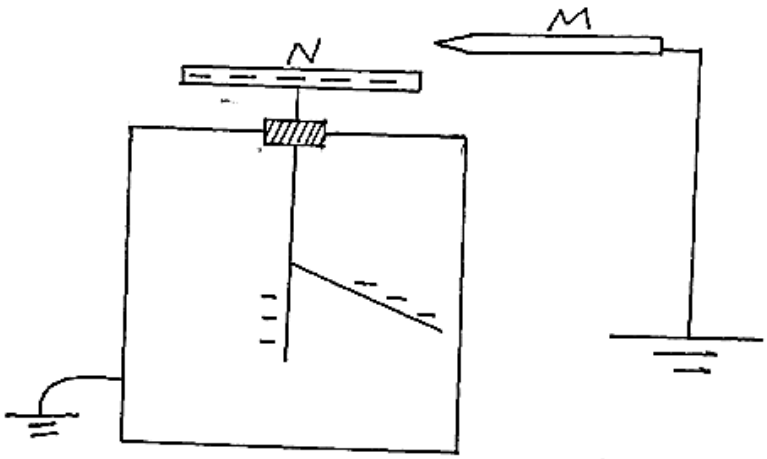
SECTION I (25 MARKS)

1. State the number of images formed when three objects are placed between two plane mirrors which parallel to each to each other. **(1mk)**

……

……

2. The figure shows a highly negatively charged electroscope. A pointed pin M which is earthed is brought closer to the metal cap N as shown.



State and explain the observations that will be made. **(3mks)**

……

……

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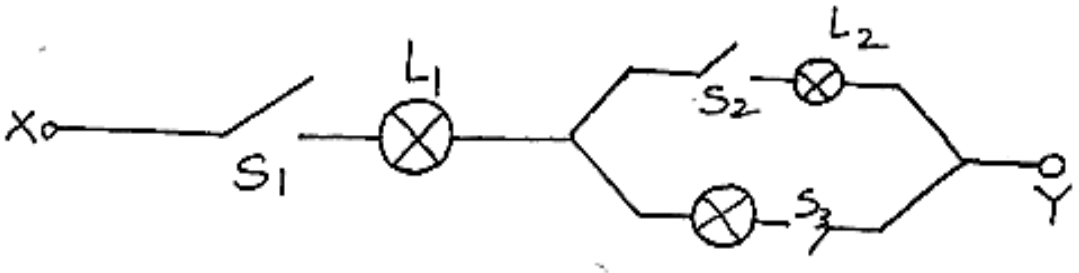
……

3. The figure below shows an electric circuit. S_1, S_2 and S_3 are switched and L_1,L_2 and L_3 are lamps. A constant potential difference is applied across X and Y.



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i) Other than L_1 state the lamp that will light when S_1 and S_2 are closed. **(1mk)**

……

……

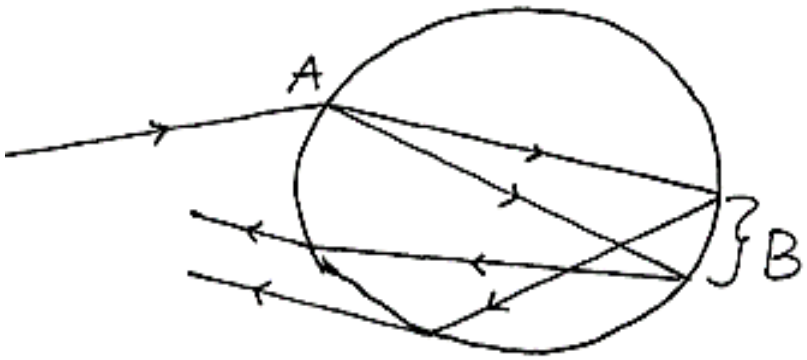
ii) How does the brightness in L_1in (i) above compared with its brightness when all the switches are closed. **(1mk)**

4. One method of magnetization is by single stroking. State the disadvantage of this method.**(1mk)**

……

5) A pendulum bob takes 0.5seconds to move from its mean position to maximum displacement. Calculate its frequency. **(2mks)**

6. The figure below shows part of a rainbow.



State what happens at part

A …… **(1mk)**

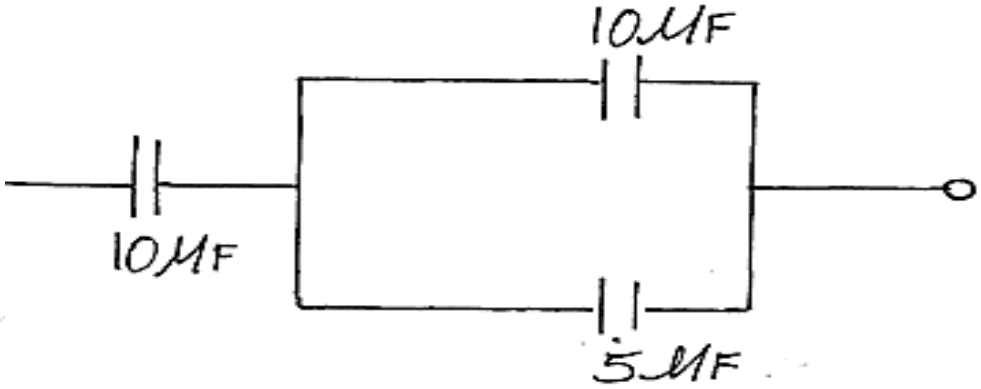
B …… **(1mk)**

7. State one factor that affects resistance of metal conductor other than temperature. **(1mk)**

……

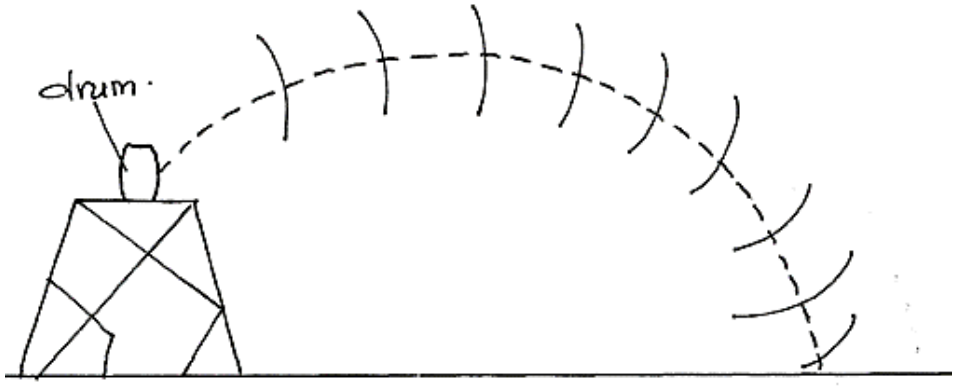
……

8. The figure shown a network of three capacitors



Determine the effective capacitance. **(2mks)**

9. The figure shows sound waves emitted by a drum stick.



Explain way the wave fronts are directed to the ground **(2mks)**

……

……

……

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10. Write a nuclear equation of a radioactive cobalt $^{60}_{26}Co$ which undergoes a β decay to form element W. **(2mks)**

.....

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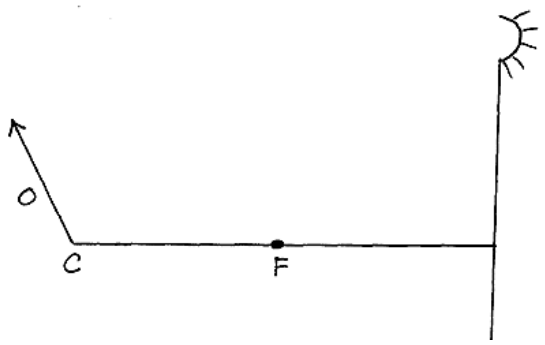
11. The figure below show an object O placed in front of concave mirror.



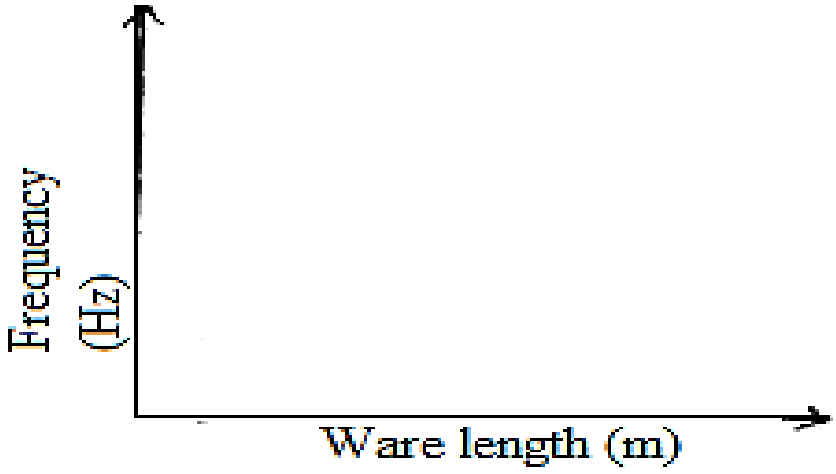
On the same figure construct a ray diagram to locate the image of the object. **(3mks)**

12.a) State one property common to all electromagnetic waves. **(1mk)**

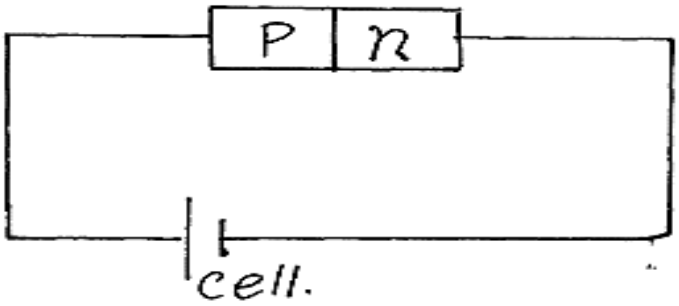
.....

.....

b) On the axis provided, sketch a frequency wavelength graph for electromagnetic waves. **(1mk)**



13.a) The figure below shows a p-n junction connected to a cell.

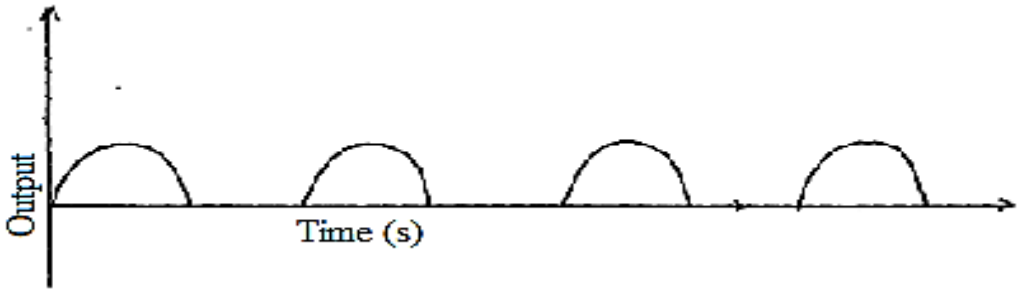


What type of biasing will occur if the terminals of the cell are interchanged **(1mk)**

……

……

b) The graph below shows the output obtained with time during rectification process



State the number of diode used in this process. **(1mk)**

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SCTION II (55 MARKS)

Answer all the question in the space provided

14.a) State Ohm's law **(1mk)**

……

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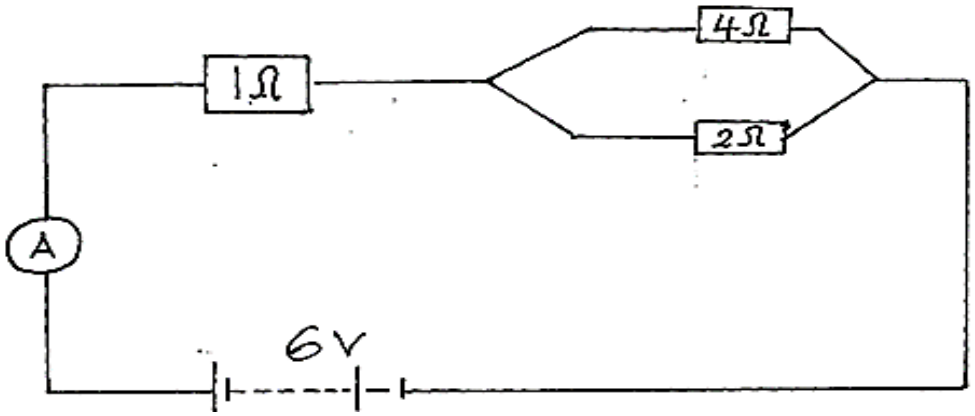
b) Study the circuit diagram below and answer the question that follows.



Calculate

i) The effective resistance **(2mks)**

ii) Current flowing through the ammeter **(2mks)**

iii) Current flowing through the 4Ω resister. **(3mks)**

15.a) State one use of echoes **(1mk)**

……

……

b) Explain why there is gradual decrease in amplitude of a progressive wave **(1mrk)**

……

……

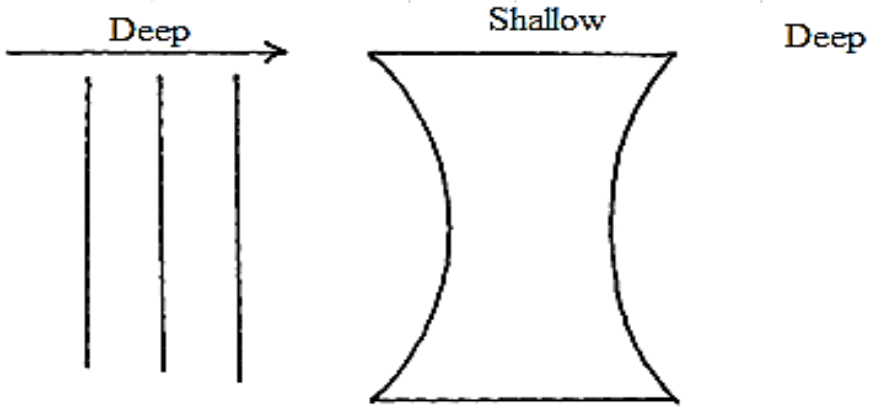
c)i) Distinguish between Refraction and reflection of waves **(1mk)**

……

……

……

ii) In the figure below complete the diagram to show how plane wave move in the shallow and deep region there after **(2mks)**



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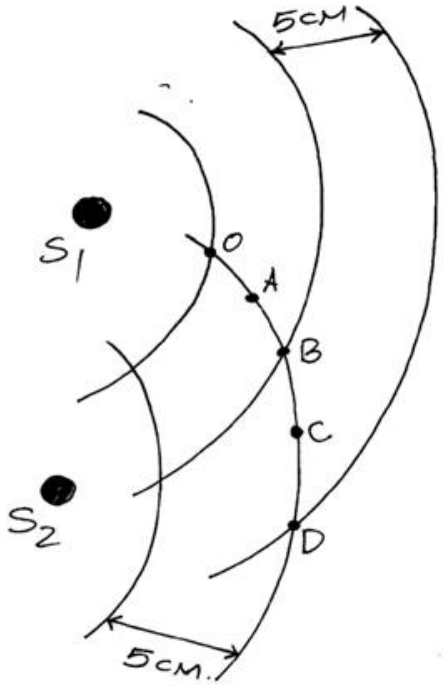
iii) The figure below shows how water wave interferes in a ripple tank. The amplitude and wavelength of each wave is 8cm and 5cm respectively.



Determine the amplitude of the water wave at point

A **(1mk)**

B **(1mk)**

iv) If the Vibrator at S_1 and S_2 in part (iii) above produce coherent waves of frequency 40Hz, determine the speed of the water wave. **(2mks)**

16.a)Determine the term principal focus for a convex lens. **(1mk)**

……

……

……

b) A certain student accommodates objects situated at a distance greater than 80.0cm from the eye.

i) Define the term accommodation in reference to eye vision. **(1mk)**

……

……

ii) State with a reason this type of eye defect **(2mks)**

……

……

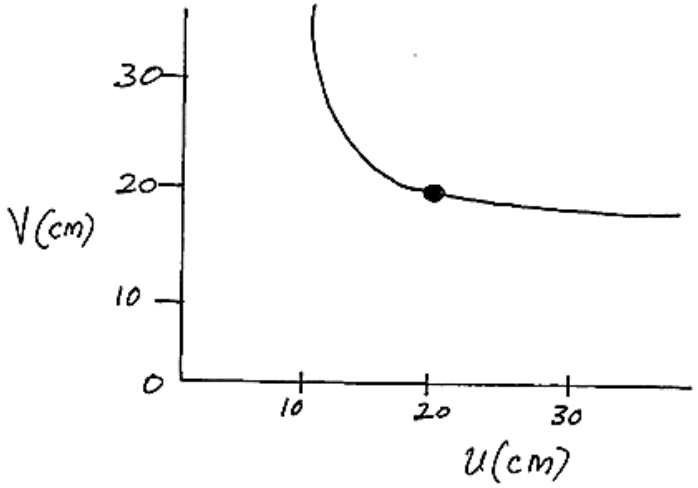
……

iii) Identify the type of lens that would enable the student to see. **(1mk)**

……

……

c) The graph below is a plot of image distance (v) against object distance (u) for a convex lens.



From the graph determine the focal length of the convex lens. **(2mks)**

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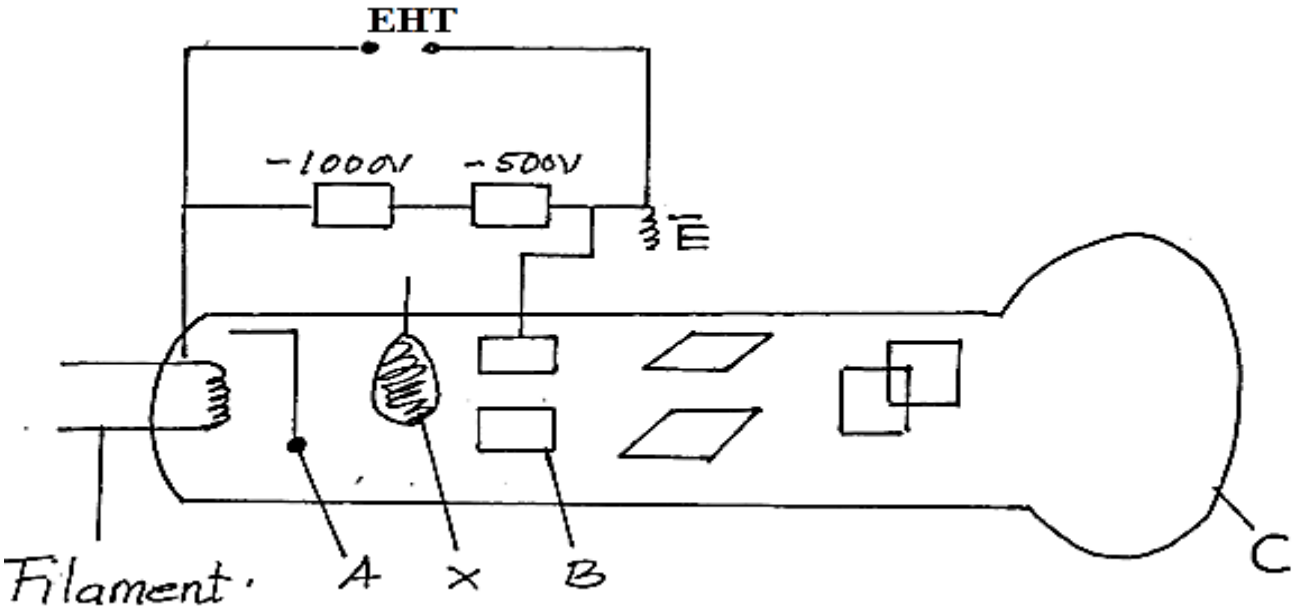
d) An object of height 4cm is placed 2cm from a diverging lens of focal length 3cm calculate:

i) The image distance. **(2mks)**

ii) The height of the image **(2mks)**

17.a) The figure below shows a cathode ray oscilloscope (CRO)



i) State the function of the component labeled: **(3mks)**

A ……

B ……

C ……

ii) What would be the effect on the CRO if the temperature of the filament of the electron gun was raised. **(1mk)**

……

……

……

iii) Name and state the function of the part labeled X. **(2mks)**

……

……

……

b) Apart from thermionic emission name the other method of emitting electrons from a metal surface. **(1mk)**

……

……

……

c) State two factors that affect photoelectric effect on a metal surface. **(2mks)**

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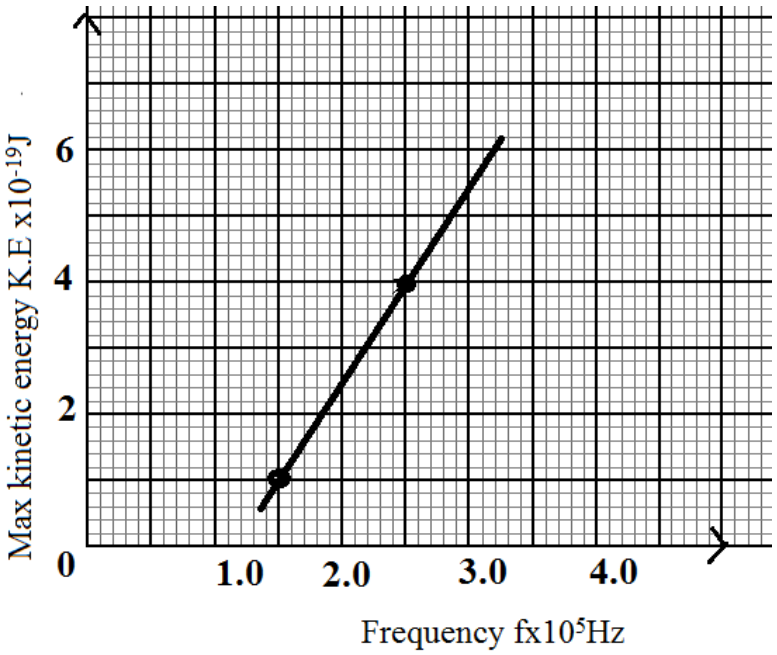
d) The graph below shows how kinetic energy varies with frequency *f* in an experiment using a photocell.



Given the k.e *max=hf-Ø* determine from the graph :

i) Plank constant h **(3mks)**

ii) The Constant Ø **(2mks)**

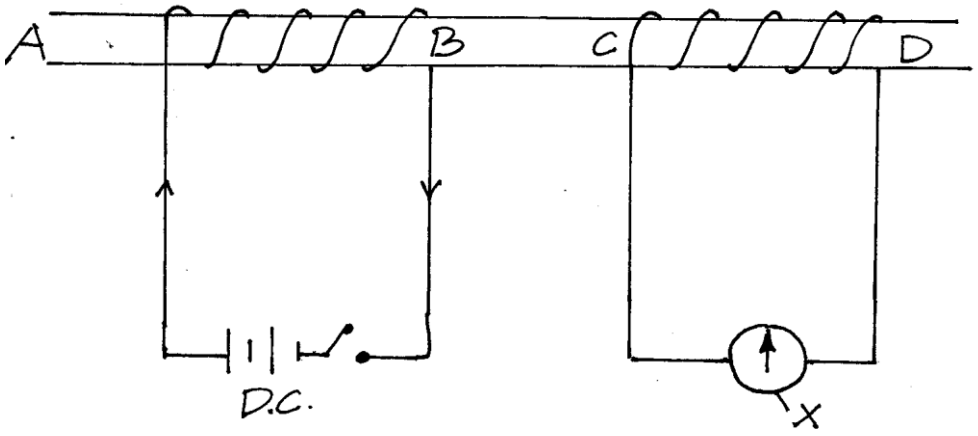
18.a) State the Lenz's low of electromagnetic induction. **(1mk)**

……

……

……

b) The figure below shows two coil connected using a soft iron core



i) Name the part labeled X **(1mk)**

……

ii) State and explain what happens when the switch is closed **(3mks)**

……

……

……

……

ii) State the observation made on X when the D.C supply is replaced with A.C **(1mk)**

……

……

c) A generator produces 250kW is connected to a factory by a cable which has a total resistance of 10Ω. Determine the voltage at which the generator produces power if the maximum current in the cable is 8.0A **(2mks)**

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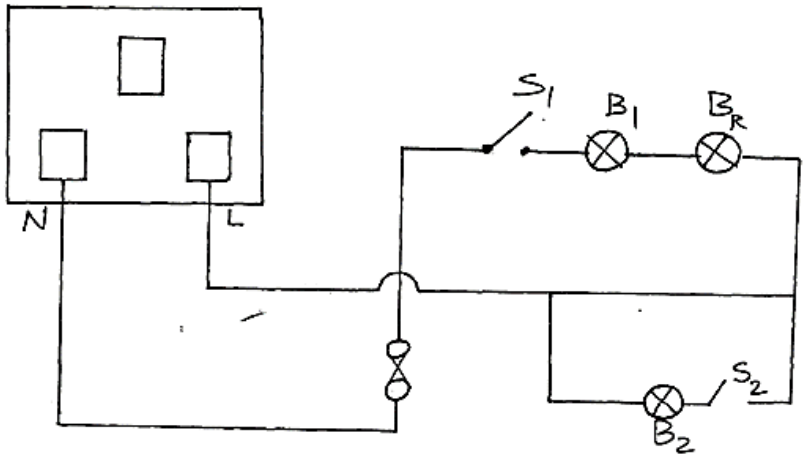
d)i) State two ways through which power loss is minimized in a transmission cables. **(2mks)**

……

……

……

ii) The figure below shows part of a wiring circuit for a house.



Identify three faults made in the wiring. **(3mks)**

……

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KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

PHYSICS

232/3

PAPER 3 (PRACTICAL)

TIME: 2½ HOURS

SCHOOL…… SIGN……

Kenya Certificate of Secondary Education.

CONFIDENTIAL

Each student will require;

Question one

1. Boiling tube approx. 15.0cm tall and diameter 2.4±0.5cm
2. Some dry sand
3. Half meter rule
4. Vernier calipers (to be shared)
5. Weighing balance (At least one per room)
6. A piece of tissue paper.
7. A glass beaker (at least 600ml almost full of liquid L and labeled L)
(Liquid L is brine prepared with 1kg salt in 5 liters of water)
8. A plane mirror.
9. A rectangular glass block approximately 100mm×60mm×18mm.
10A plain white paper.
11Soft board.
12. Protractor (Student geometrical set)
13. A piece of plasticine.
14. Four optical pins
15. A lit candle
16. A biconvex lens of f =15cm

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17. *A lens holder*
18. *A meter rule*
19. *A white screen.*

Question Two

1. *Ammeter (0-1A)*
2. *Voltmeter (0-5V)*
3. *Two new size D cells.*
4. *A cell holder.*
5. *A resistance wire fixed on a millimeter scale (SWG 31)*
6. *A switch.*
7. *Six connecting wire with crocodile clips.*

KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

PHYSICS

232/3

PAPER 3 (PRACTICAL)

TIME: 2½ HOURS

NAME……

SCHOOL…… **SIGN**……

INDEX NO…… **ADM NO**……

INSTRUCTIONS TO THE CANDIDATES

(a) *Write your name and index number in the space provided above.*
(b) *Answer all questions in the space provided in the question paper*
(c) *You are supposed to spend the first 15 minutes of the 2½ hours allowed for this paper reading the whole paper carefully before commencing your work.*
(d) *Marks are given for clear record of the observation made, their suitability accuracy are use.*
(e) *Candidates are advised to record their observation as soon as they are made.*
(f) *Non-programmable silent calculators and mathematical tables may be used.*

For Examiners Use Only

QUESTION 1 A

Part	i	iii	iv	v	vi	vii	viii	Total
Students Score								

QUESTION 1B

Part	e	f	g	Total
Students score				

QUESTION 1 C

Part	b	c	d	e	Total
Students score					

QUESTION 2

Part	i	iii	iv	v	Total
Students score					

GRAND TOTAL

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Question 1

A) You are provided with the following apparatus:

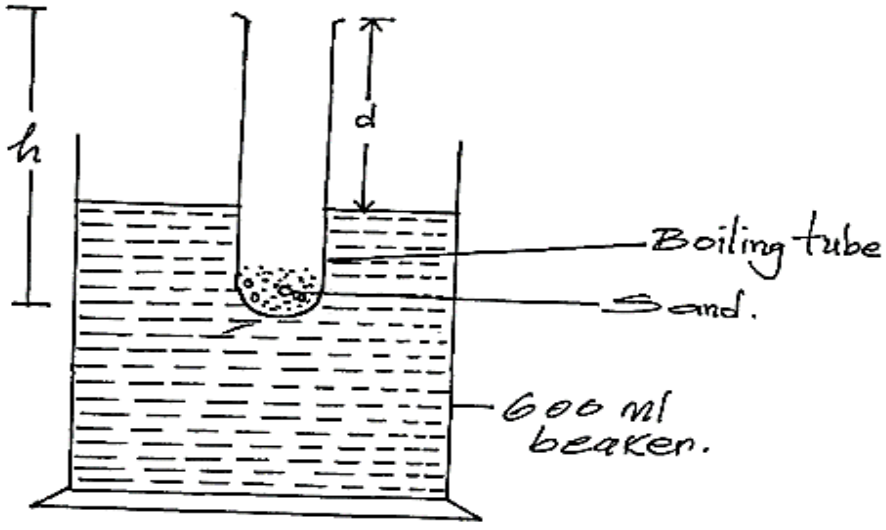
- A boiling tube,
- Some dry sand
- A liquid in a beaker labeled L
- Half meter rule
- Vernier caliper (To be shared)
- A weighing balance (To be shared)
- Tissue paper

Proceed as follows:

i) Measure the length of the boiling tube using the vernier calipers.

***h*=……..cm** **(1mrk)**

ii) Put a little amount of sand in the boiling tube and place it in the beaker which is almost filled with liquid L. Add sand little by little until the tube floats upright as shown in the figure bellow.



iii) Measure the length d, part of the boiling tube which is above the liquid.

d=…….cm **(1mrk)**

iv) Determine the length t, of the boiling tube which is immersed in the liquid.

t=……cm **(1mrk)**

v) Remove the boiling tube from the beaker, wipe it dry on the outside and measure its mass, including the sand inside.

m=…….g **(1mrk)**

vi) Measure the external diameter, D, of the boiling tube.

D=……..cm **(1mrk)**

vii) Determine the external reading, R **(1mrk)**

R =…… + ……..cm

viii) Using the formula $m = 12\rho\pi R^2$, determine ρ of the liquid **(3mks)**

ρ =

B)You are provided with the following apparatus:

- One plane mirror.
- One rectangular glass block.
- One white plane paper.
- Soft board.
- A protector (student geometrical set).
- A piece of plastic ine.
- Four optical pins.

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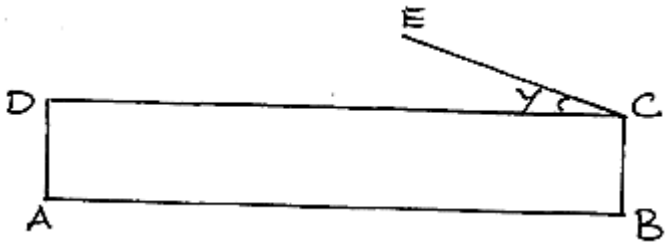
Proceed as follows

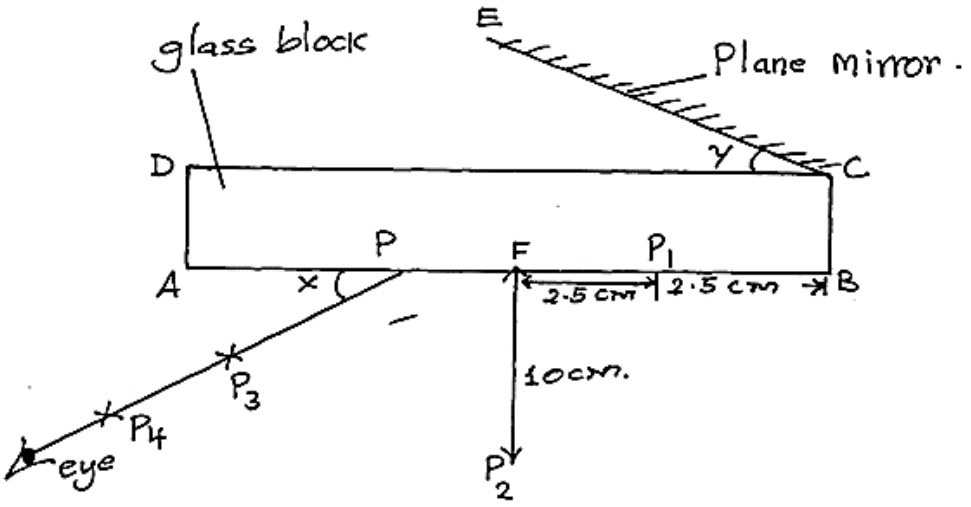
a) Place the glass block vertically on the white paper with its largest surface facing you. Draw the outline of the block and label it ABCD. Remove the block.

b) From point c measure angle y=30° and draw line CE as shown in the diagram.



c) From point B, fix a pin P1 at 2.5cm from B along BA and another pin P2 2.5cm from P1 and 10cm from point F on line AB. As shown in the diagram.

d) Replace the glass block and put the plane mirror vertically on line CE behind the glass block (fix it with plastacine). Arrange pins P3 and P4 to be in a straight with the image of P1 and P2 as seen through the glass block after reflection from the plane mirror. Draw a line P3P4 to meet the block at P as in the figure below.



e) Measure angle X and state its units **(1mk)**

X =……..

f) Given the equation Y= Y_0 - 0.515X determine the value of y_0. **(2mks)**

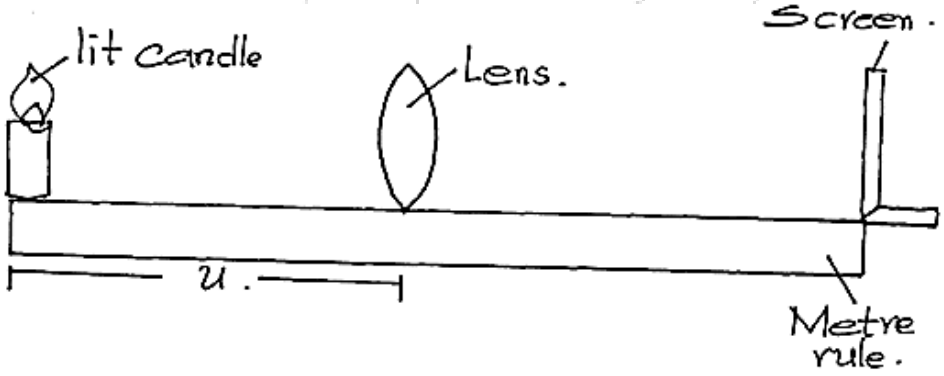
g) Find n from the formula $n = \frac{1}{\sin(90 - Y_o)}$ **(2mks)**

C)You are provided with;

- A candle,
- A biconvex lens,
- A lens holder,
- A meter rule,
- A white screen.

Proceed as follows;

a) Arrange the lit candle and the white screen on the bench at a distance of 100cm from each other. Mount the meter rule on the bench as shown so that it's zero mark coincides with point of the lit candle and 100cm mark coincide with the position of the screen.



b) Place the lens between the screen at a point near the candle. Move the lens systems together with its holder towards the screen until you observe a sharp magnified inverted image of the flame on the screen.

Record the distance U_1 between the lens and the lit candle.

U_1…….cm **(1mrk)**

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c) Move the lens system further towards the screen until you obtain another position where a sharp diminished inverted image of the flame is formed on the screen.

Record the new distance U_2 between the lens and the candle.

U_2=……..cm **(1mrk)**

d) Determine the displacement d of the lens **(1mrk)**

$d = U_2 - U_1$

d) Determine Constant Ø given that Ø$= \frac{1+m}{mU_1}$ when $m = \frac{100 - U_1}{U_1}$ **(3mks)**

<u>Question 2</u>

You are provided with the following apparatus;

- Ammeter (0-1 A)
- Voltmeter (0-5V)
- Two dry cells
- One resistance wire fixed on a meter rule/mm scale.
- A switch
- Six connecting wires with crocodile clip.

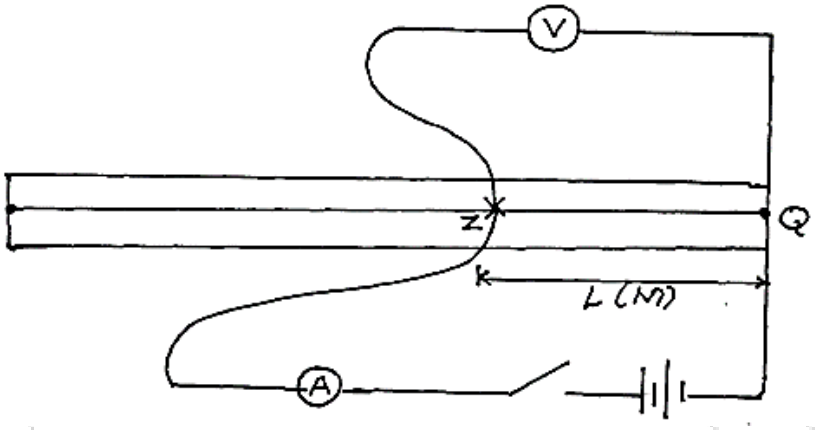
A cell holder

Proceed ad follows

i) Set up a circuit and measure the potential difference M across the cells before connecting the circuit.

M =……. **(1mk)**

ii) Arrange the circuit as shown below.



iii) Keeping both crocodile clips attached on the resistance wire QZ for a length L=0.1m from Q, record corresponding values of current I (A) and voltage (V) in the table below.

Repeat the procedure from the other length L of L 0.2m, 0.3m, 0.4m, 0.5m, 0.6m, 0.7m and 0.8m.

Length L(m)	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
Current **I**(A)								
Voltage V (V)								
$P = \frac{V}{I}(\Omega)$								
$\frac{1}{\mathbf{I}}(A^{-})$								

NB (give your answer in 3 significance figures.)

iv) Draw a graph of $\frac{1}{\mathbf{I}}$ against P **(5mks)**

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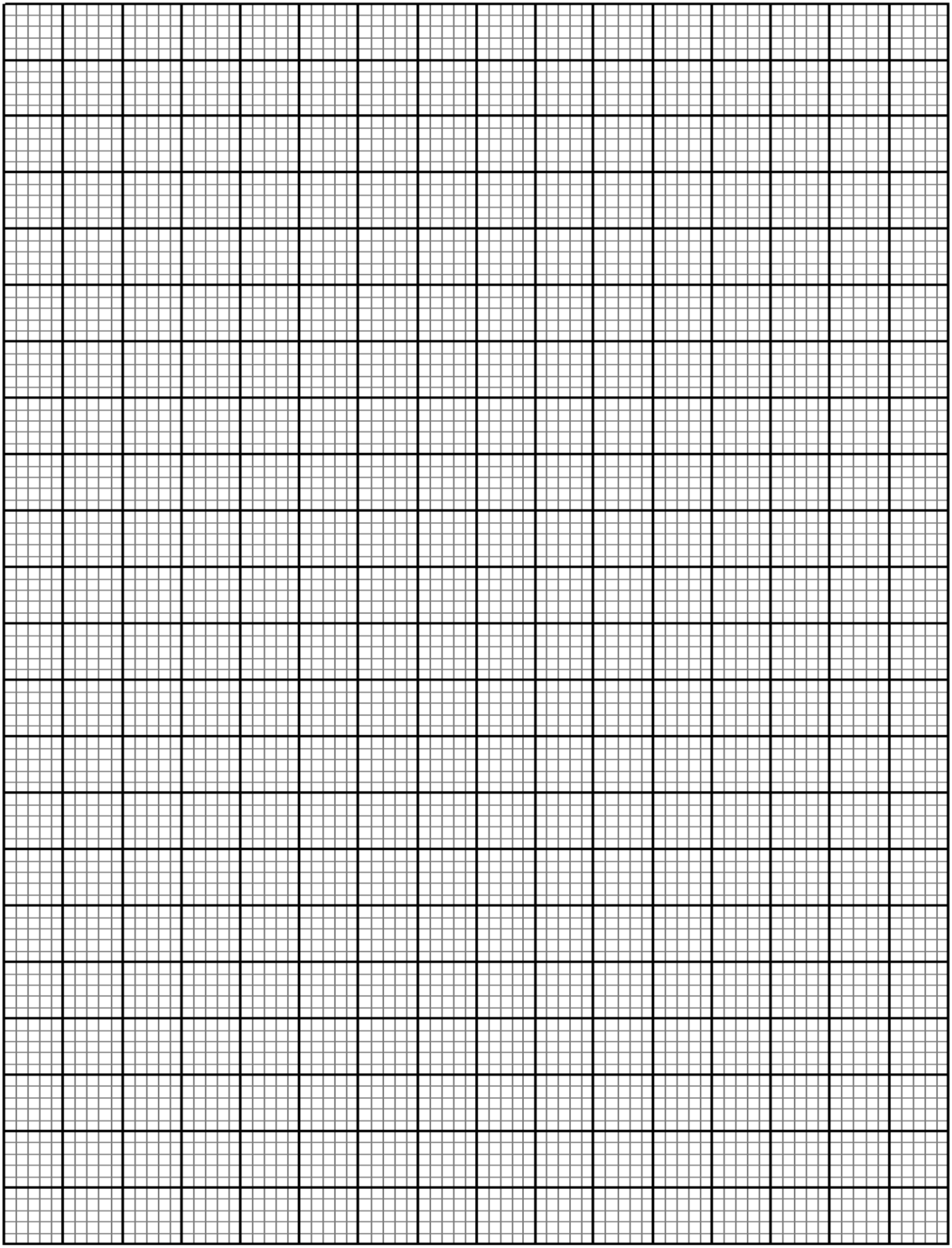

v) Given that the Quantities are connected by the equation $\frac{1}{\mathbf{I}} = \frac{P}{m} + \frac{x}{m}$

Determine the value of

a) m **(4mks)**

b) x **(2mks)**

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KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

MATHEMATICS

121/1

PAPER 1

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTION TO CANDIDATES

a) Write your name and Admission number in the spaces provided above.
b Sign and write the date of examination in the spaces provided above.
*c)The paper consists of **two** sections. **Section I** and **Section II.***
*d)Answer **ALL** the questions in Section I and any **FIVE** questions in Section II.*
e) Show all the steps in your calculations, giving your answer at each stage in the spaces provided below each question.
f) Marks may be given for correct working even if the answer is wrong.
g)Non-programmable silent electronic calculators and KNEC Mathematical tables may be used except where stated otherwise.
h)Candidates should answer the questions in English.

FOR EXAMINER'S USE

SECTION I

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	**Total**

SECTION II

17	18	19	20	21	22	23	24	**Total**

Grand Total

SECTION I:(50MKS)

Attempt All The Questions From This Section

1.Without using a calculator or a mathematical table evaluate **(3mks)**

$$\frac{\frac{6}{7} of \frac{14}{3} \div 8 \times \frac{-2}{3}}{-2 \times 3 + (14 \div 7) \times -3}$$

2. In a disco hall, four lights signals are programmed at intervals of 8 seconds, 10 seconds, 12 seconds and 15 seconds. What is the earliest time they will give out light signals simultaneously if the last time they did this 1915 Hrs. **(3mks)**

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3. Simplify $\frac{12x^2 - 16x}{20 - 11x - 3x^2}$ **(3mks)**

4. The number of sides of two regular polygons differ by one. If the sum of the interior angles of these polygons is in the ratio 3:2 calculate the number of sides of each polygon and name them. **(4mks)**

5. Under an enlargement scale factor -4 the image of point A(4,3) is A^1(-4,-5). Calculate the coordinates of the centre of enlargement. **(3mks)**

6. Given that $A+\begin{pmatrix}2 & 0\\ 1 & 3\end{pmatrix}=\begin{pmatrix}2 & 3\\ 0 & 1\end{pmatrix}$ find A^T the transpose of matrix A. **(2 mks)**

7. If $\frac{x^h}{y^{\frac{2}{3}}}\div\frac{y^k}{yx^3}=x^3y^{-4}$, find h +k **(3mks)**

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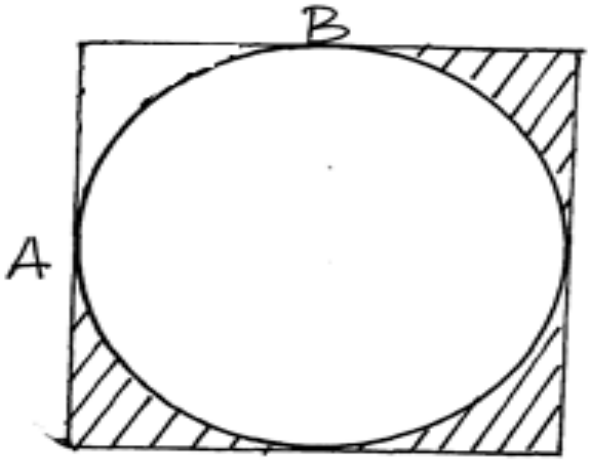
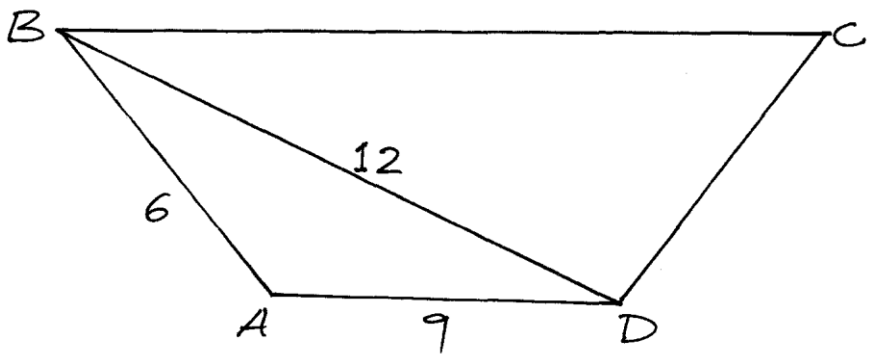
8. The figure below shows a circle inscribed in a square. The length of the arc AB is $\frac{44}{7}\sqrt{7}$ cm.

Calculate the area of the shaded region. $\left(\pi = \frac{22}{7}\right)$. **(4mks)**



9. Two students Paul and Omondi standing 10m apart on the same side of a tall building on a horizontal ground. Paul who is closer to the building sees the roof top at an angle of 70^0, while Omondi at an angle of 46.8^0, if the building, Paul and Omondi lies on a straight line, calculate the height of the building correct to 3 s.f. **(4 mks)**

10.A trapezium was created by joining two similar triangles. What is the perimeter of the quadrilateral? **(3mks)**



11. Mr Wajakoya purchased animal feeds for his 10 cows which would last for 7 days. After feeding his cows for 4 days, he sold 4 cows. How many more days will the feeds last the remaining cows. **(3mks)**

KCSE 23

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12. Use the tables of logarithms to evaluate. **(4mks)**

$$\left(\frac{6.79\times 0.391}{\log 5}\right)^{\frac{-3}{4}}$$

13.A pentagonal prism has each of its sides as 5cm and length 10cm. Find the volume of the prism.

(3 mks)

14. Solve the following inequalities and state the integral solutions. **(3mks)**

$$\frac{1}{2}(24-4x) > 6(3x-\frac{4}{3}) \geq -\frac{2}{3}(42+3x)$$

15. When a shirt is sold at sh 126 a loss of x% is made. If the same shirt is sold at sh 154, a profit of x% is realized. Find the buying price of the shirt. **(3mks)**

16. Without using calculator or mathematical tables, find the value of x in $\sin 60^0 = \cos (3x-45)^0$ given that $0^0 \leq x \leq \frac{\pi^C}{2}$ **(2mks)**

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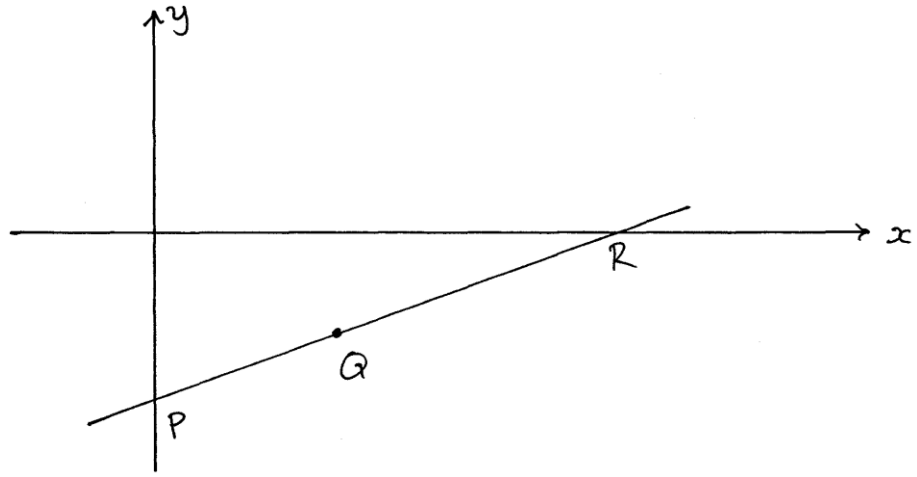
SECTION II

Answer Any Five Questions

17. The figure below shows a line that passes through points P, Q and R. Given that its equation is $\frac{-7y}{30}+\frac{x}{10}=1$ and that point Q is equidistant from x and y-axis



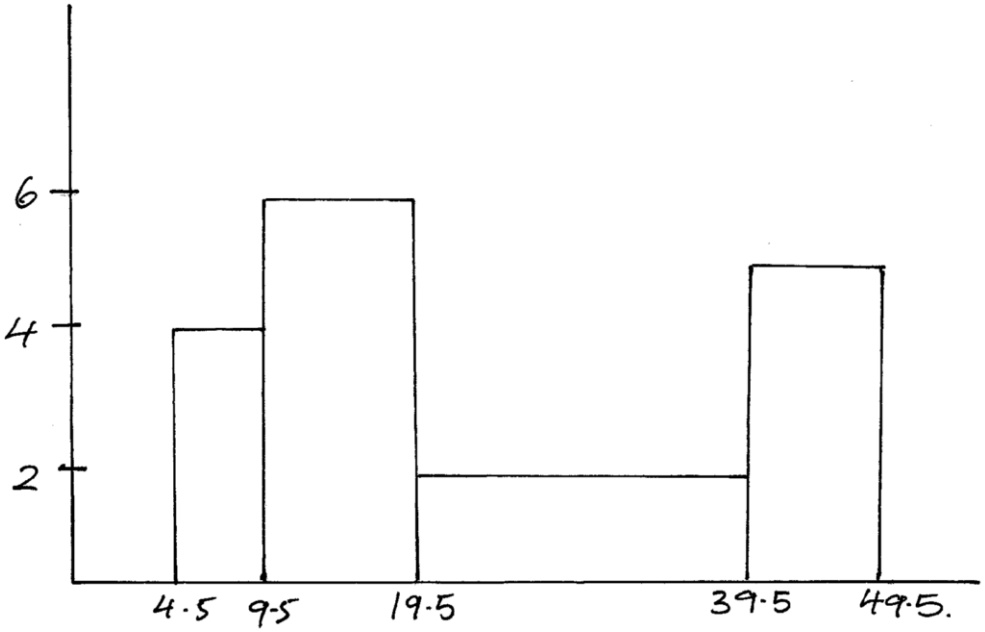
(a) Calculate the co-ordinates of points Q. **(4mks)**

(b) Calculate the size of angle formed by the line and y-axis. **(3mks)**

(c) Find the equation of the perpendicular to the line through Q in the form of $\frac{x}{a}+\frac{y}{b}=1$

(3 mks)

18. The figure below shows a histogram of a certain data.



(a) Given that the frequency of the last class is 30, prepare frequency distribution table for the data. **(3mks)**

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(b) **(i)**State the modal class. **(1 mk)**

(ii) Estimate the mean height **(3mks)**

(c) Using a vertical line show where the median lies and state the median. **(3mks)**

19. Towns A and B are 420km apart. Two Lorries departed from A at the same time travelling towards B. Lorry X travelled at an average speed of 15km/h less than Y and reached 1 hour and 24 minutes later.

(a) Calculate the average speed of lorry Y. **(5mks)**

(b) How far was X from A when Y reached B. **(2mks)**

(c) A van left town B heading towards A at the time lorries X and Y left A. If the van travelled at an average speed of 90km/h, how far from A did it meet Lorry Y. **(3mks)**

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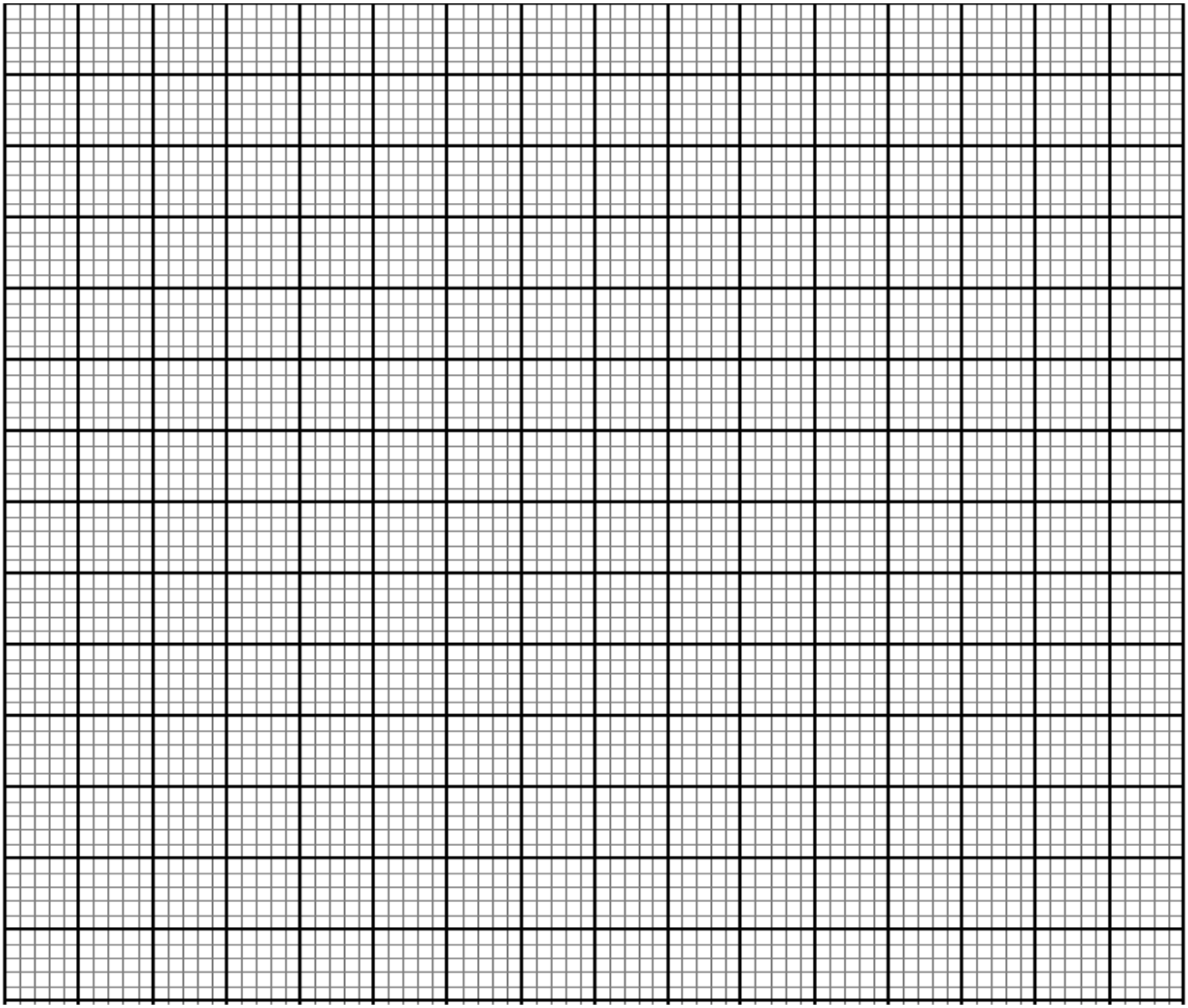
20. The vertices of a triangle PQR are P(0,0), Q(6,0) and R(2,4).

(a) Draw triangle PQR on the grid provided. **(1mk)**



(b) Triangle $P^1Q^1R^1$ is the image of triangle PQR under an enlargement scale factor $\frac{1}{2}$ and centre (2,2), write down the co-ordinates of $P^1Q^1R^1$ and plot on the same grid. **(3mks)**

(c) Draw triangle $P^{11}Q^{11}R^{11}$ the image of triangle $P^{1}Q^{1}R^{1}$ under a positive quarter turn about point (1,1). State the co-ordinates of $P^{11}Q^{11}R^{11}$. **(3mks)**

(d) Draw triangle $P^{111}Q^{111}R^{111}$ the image of $P^{11}Q^{11}R^{11}$ under a reflection in the line y=1. **(2mks)**

(e) State the type of congruence between triangle $P^{1}Q^{1}R^{1}$ and $P^{111}Q^{111}R^{111}$. **(1mk)**

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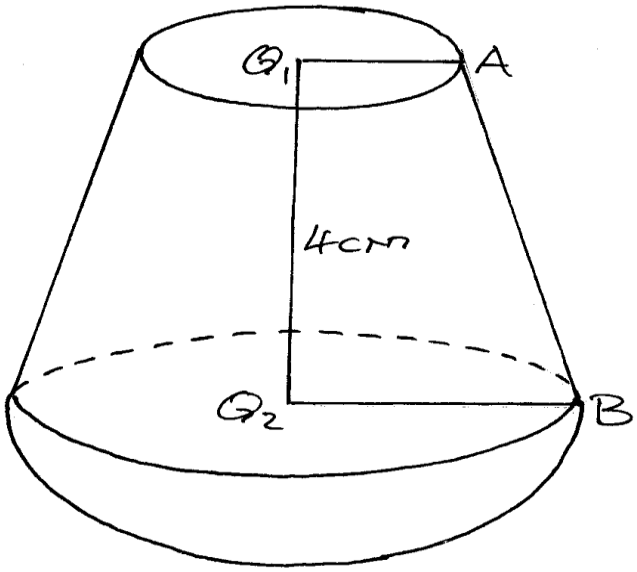
21.The diagram below represents a solid consisting of a hemispherical bottom and a conical frustum at the top. O_1O_2 =4cm, O_2B=R=4.9cm and O_1A=r=2.1cm.



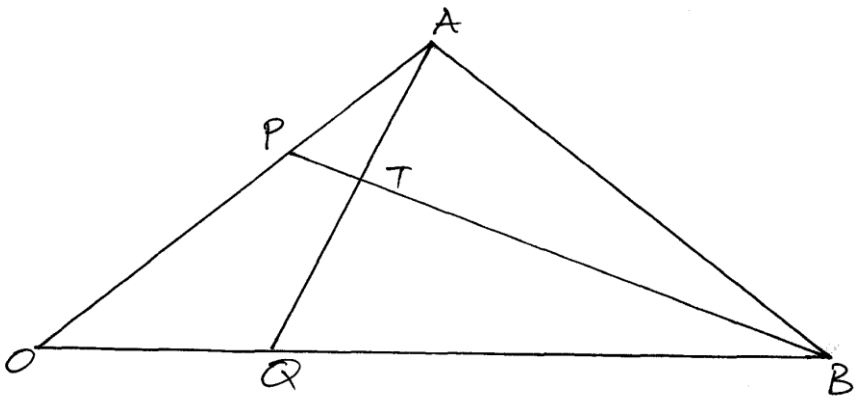
Calculate to 1 d.p,

(a) The height of the chopped off cone and hence the height of the bigger cone**. (2mks)**

(b) The surface area of the solid. **(4mks)**

(c) Calculate the volume of the solid. **(4mks)**

22. In the triangle below P and Q are points on OA and OB respectively such that OP:PA=3:2 and OQ:QB =1:2 AQ and PQ intersect at T. Given that OA= $\underset{\sim}{a}$ and OB= $\underset{\sim}{b}$



(a) **Express AQ** and **PQ** in terms of $\underset{\sim}{a}$ and $\underset{\sim}{b}$ **(2mks)**

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(b) Taking **BT**=k**BP** and **AT**=h**AQ** where h and k are real numbers.

(i) Find two expressions for **OT** in terms of $\underset{\sim}{a}$ and $\underset{\sim}{b}$ **(2mks)**

(ii) Use the expressions in b(i) above to find the values of h and k. **(3mks)**

(c) Show that B, T and P are collinear. **(3mks)**

23. A ship leaves port M and sails on a bearing of 050^0 heading towards island L. Two navy destroyers ships sail from a naval base N to intercept the ship. Destroyer A sails such that it covers the shortest distance possible. Destroyer B sails on a bearing of 010^0 to L. The bearing of N from M is 100^0 and distance NM=300km. Using a scale of 1cm represents 50km, determine;

(i) The position of M, N and L. **(5 mks)**

(ii) The distance travelled by destroyer A. **(2mks)**

(iii) The distance travelled by destroyer B. **(2mks)**

(iv) The bearing of N from L. **(1mks)**

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24.(a) Determine the x and y-intercepts of the curve $y=(x-1)(x+3)^2$ **(3mks)**

(b) Find the stationary points of the curve above and state their nature. **(4mks)**

(c) Sketch the curve. **(3mks)**

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KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

MATHEMATICS

121/2

PAPER 2

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTION TO CANDIDATES

a) Write your name and Admission number in the spaces provided above.

b) Sign and write the date of examination in the spaces provided above.

*c) The paper consists of **two** sections. **Section I** and **Section II.***

*d) Answer **ALL** the questions in Section I and any **FIVE** questions in Section II.*

e) Show all the steps in your calculations, giving your answer at each stage in the spaces provided below each question.

f) Marks may be given for correct working even if the answer is wrong.

g) Non-programmable silent electronic calculators and KNEC Mathematical tables may be used except where stated otherwise.

h)Candidates should answer the questions in English.

FOR EXAMINER'S USE

SECTION I

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	**Total**

SECTION II

17	18	19	20	21	22	23	24	**Total**

Grand Total

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SECTION I: (50MKS)

Attempt All The Questions From This Section

1. Find the percentage error in the area of a circle whose radius is 3.5cm measured to 1decimal place. **(3mks)**

2. Make h the subject of the formula. **(3mks)**

$q = \frac{1+rh}{l-ht}$

3. Simplify $\frac{2}{2\sqrt{3}+\sqrt{2}} - \frac{2}{2\sqrt{3}-\sqrt{2}}$ and express your answer in the form $a\sqrt{b}$. State the values of a and b. (Express a and b in the simplest form) **(3mks)**

4. Given that $a^2x^2+6ax+k$ is a perfect square find K. **(3mks)**

5. Vector q has a magnitude of 7 and is parallel to vector P. Given that $P = 3\underset{\sim}{i} - \underset{\sim}{j} + 1\frac{1}{2}\underset{\sim}{k}$, Express vector q in terms of I, j and k. **(3mks)**

6. Given that three number x, y and z are in the ratio 6:4:5. Find the value of **(3mks)**

$$\frac{3x-y}{4y-z}$$

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7. Determine the equation of the normal to the curve $y=x^2 -3x+1$ at a point (-2, 3) giving your answer in the form ax+by=c. **(3mks)**

8. (a) Expand and simplify $(1-3x)^5$ upto the term in x^3. **(1 mks)**

(b)Hence use your expansion to estimate $(0.97)^5$ correct to 4 decimal places. **(2mks)**

9. Two lines x+2y=1 and 2x+3y=3 intersect at T. Find the equation of circle centre T and radius 5 units giving your answer in form of $x^2 + y^2 +ax+by+c=0$ **(4 mks)**

10.A quantity P varies jointly as the square of Q and inversely as S. P=3 when Q=5 and S=2. Find the value of P when Q=2 and S=3. **(3mks)**

11. Solve for x if $\sin \frac{3x}{2} = 0.85$ for the range $0 \leq x \leq 360^0$ **(3mks)**

12.A rectangle ABCD is such that AB=6 and BC=5cm. A variable point P moves inside the rectangle such that $AP \leq PB$ and AP>2.5cm. Show the region where P lies. **(3mks)**

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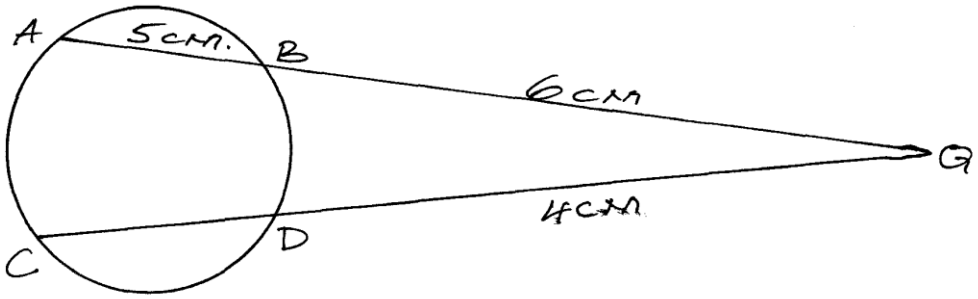
13. Chords AB and CD intersects externally at Q. If AB=5cm, BQ=6cm and DQ =4cm. Find the length CQ. **(3mks)**



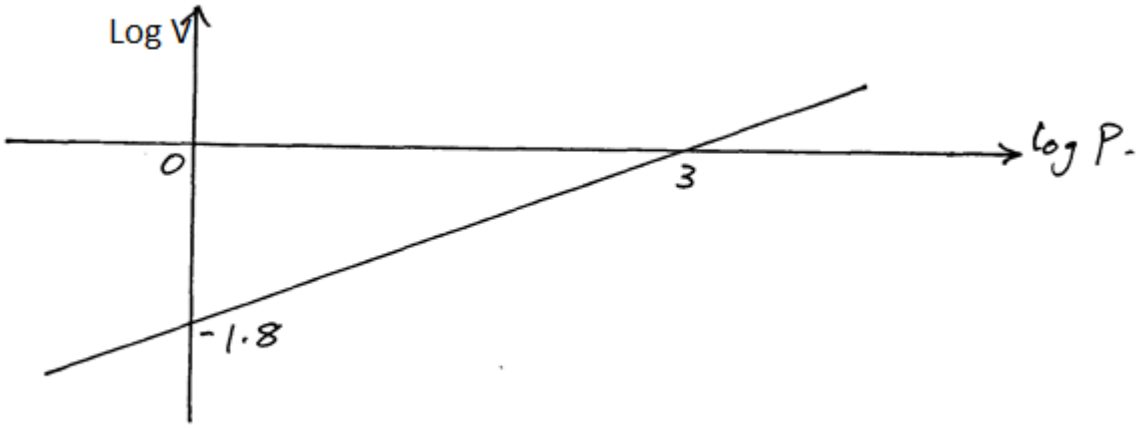
14. Find the value of k for which the matrix below is singular . **(3mks)**

$$\begin{pmatrix} k & k+3 \\ 1 & 2k \end{pmatrix}$$

15. Solve for x in the equation **(3mks)**

$$\log_8(x+5) - \log_8(x-3) = \frac{2}{3}$$

16. The graph below is part of the straight line graph obtained from the initial equation $V = ap^n$.



(a) Write down the equation of the straight line in form y=mx+c. **(1mk)**

(b) Use the graph to calculate the values of a and n. **(3 mks)**

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SECTION II

Answer Only Five Questions From This Section

17. The table below shows income tax rates.

Monthly taxable pay in K£	**Rate of tax Ksh in 1 K£**
1-435	2
436-870	3
871-1305	4
1306-1740	5
Excess over 1740	6

A company employee earn a monthly basic salary of Ksh 30,000 and is also given allowances amounting to Ksh 10 480.

(a) Calculate the total income tax. **(5mks)**

(b) The employee is entitled to a personal tax relief of Ksh 800 per month. Determine the net tax. **(1mk)**

(c) If the employee received a 50% increase in his total income, calculate the corresponding percentage increase on the income tax. **(4 mks)**

KCSE 23

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18. John and James were employed together in a certain year. Their annual salaries in shillings progressed as follows.

	1st year	2nd year	3rd year
JOHN	480,000	528,000	576000
JAMES	480,000	528,000	580800

(a) Calculate John's annual salary increment and hence write down an expression for his annual salary in his n^{th} year of employment. **(2mks)**

(b) Calculate James' annual percentage rate of salary increment and hence write down an expression for his annual salary in his n^{th} year of employment. **(3 mks)**

(c) Calculate their total earnings after 10 years of employment to the nearest Kshs. **(5mks)**

19. The number x is chosen at random from the set (0,3,6,9) and the number y is chosen at random from set (0,2,4,6,8). Calculate the probability of each of the following separate events.

(i) $x > 6$ **(1mk)**

(ii) $x+y=11$ **(2mks)**

(iii) $x>y$ **(2mks)**

(iv) $xy=0$ **(2mks)**

(v) $10x+y<34$ **(2mks)**

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20. On the surface of the earth A(50^0N, 80^0E) and B(50^0N, 120^0 E) are two separate places that seem to enjoy trade connected by airlines, taking the radius of the earth as 6370km.

(a) If the local time at B is 12.15pm. Find the time at A. **(2mks)**

(b) Calculate the shortest distance between A and B along

(i) Parallel of latitude in nm. **(3mks)**

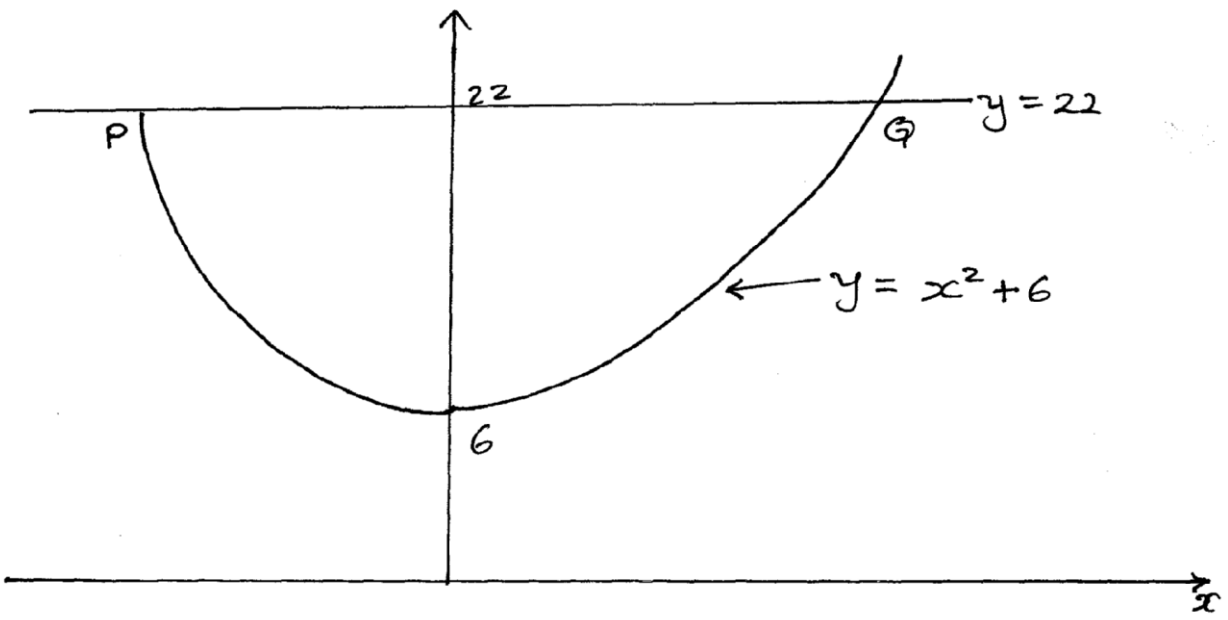
(ii) A great circle in nm. **(3mks)**

(c) There is a third place C(0,80^0E) that is also enjoying some relationship with town A.

Calculate the distance between A and C in km. **(2mks)**

For Marking Schemes - Contact 0746 222 000 / 0742 999 000

21. The diagram shows a sketch of the graph of $y=x^2+6$ and $y=22$, intersecting at point P and Q.



(a) Find the co-ordinates of P and Q. **(2mks)**

(b) Estimate the area bounded by line PQ and the curve using the trapezium rule with 8 intervals. **(3mks)**

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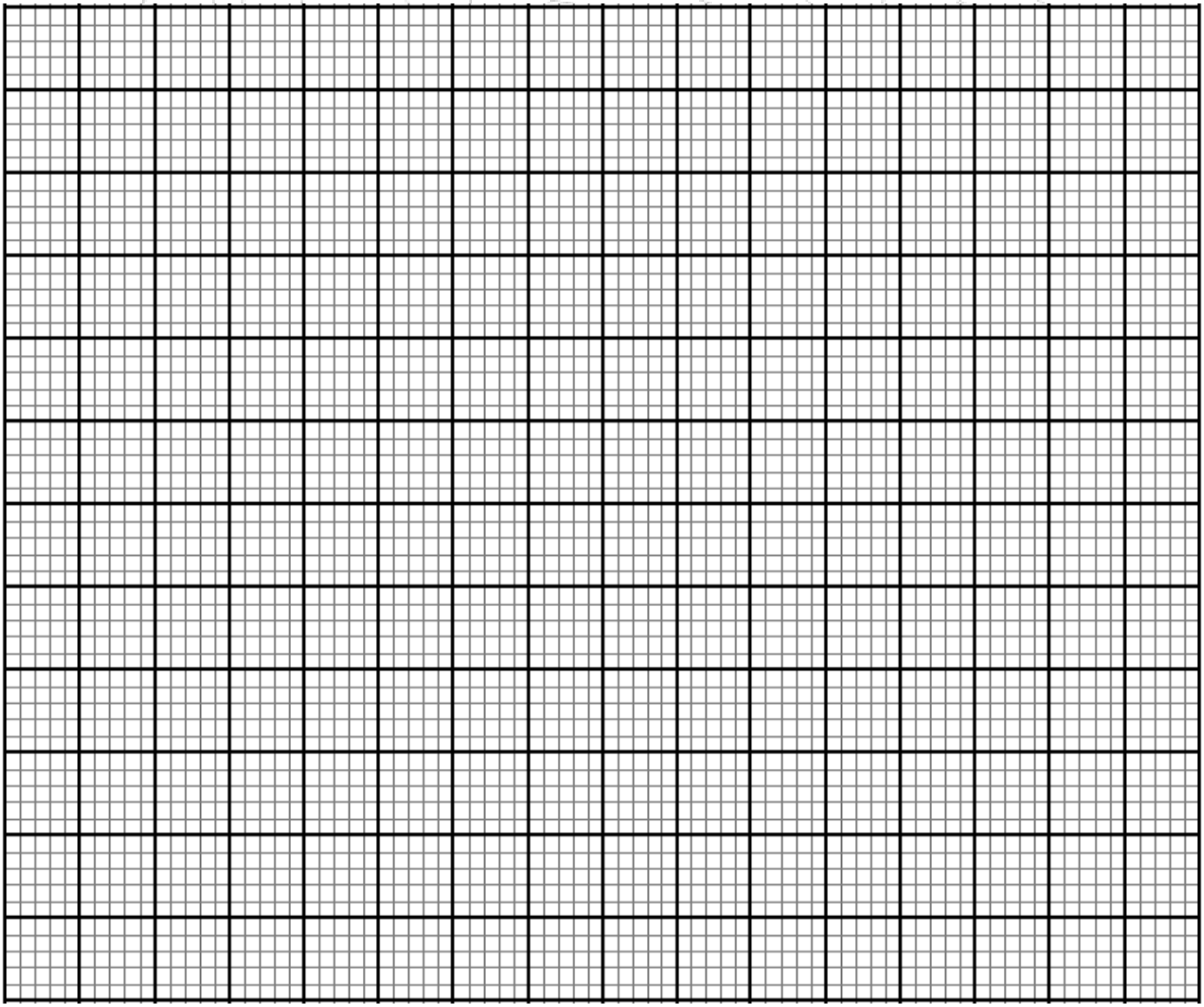
(c) Calculate the actual area of the enclosed region. **(3mks)**

(d) Calculate the percentage error introduced. (Give your answer to 4 d.p) **(2mks)**

22. Mr Mark Opito wishes to take students from wonderful mixed secondary school for a tour. The total number of pupils to be taken should not exceed 60. Each girl must contribute sh 10,000 and each boy shs 15000 and money to be contributed must not exceed sh 120,000. If the trip is to be successful the number of boys must conditionally be greater than girls.

(a) Write down inequalities to represent this information taking the number of boys and girls to be x and y respectively. **(3mks)**

(b) Represent the above information on the graph paper provided **(4 mks)**



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(c) What is the optimum number of boys and girls to be taken in order to minimize cost and hence determine the cost. (**3mks)**

23. Complete the table below. **(2mks)**

x	0	15	30	45	60	75	90	105	120	135	150	165	180
sinx	0.00	0.26		0.71			1.00	0.97		0.71			0.00
2cos x	2.00	1.93		1.41			0.00	-0.52		-1.41			-2.00
y=sinx+2cosx	2.00	2.19		2.23			1.00	0.45		-0.70			-2.00

(b) Draw the graph of y=sin x+2 cos x for $0 \leq x \leq 180$ on the grid provided. **(3mks)**

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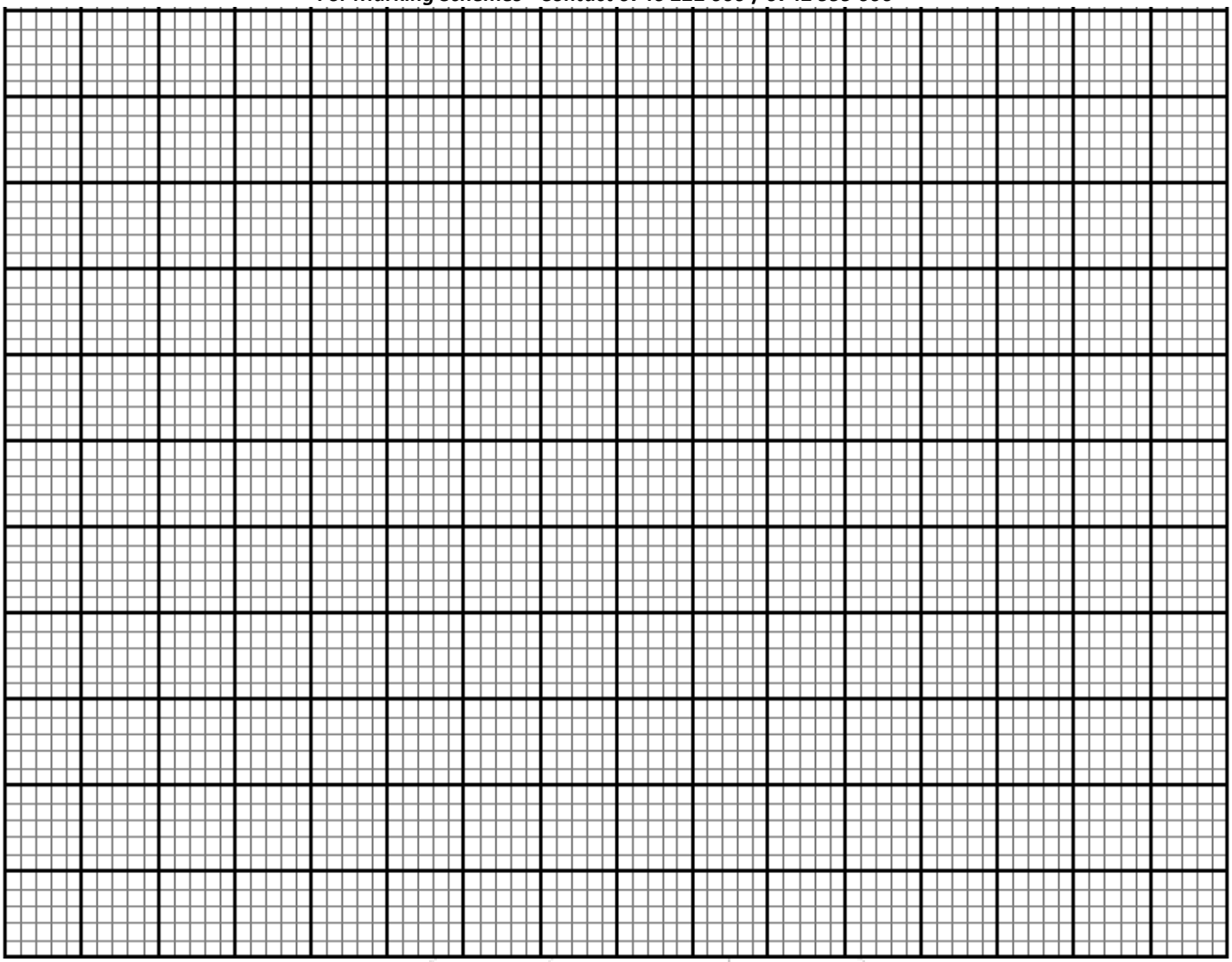

(c) Use the graph to solve

(i) $\sin x + 2\cos x = 0$ **(1mk)**

(ii) $2(\sin x + 2\cos x) = 3$ **(2mks)**

(iii) $\tan x + 2 = \frac{1}{\cos x}$ **(2mks)**

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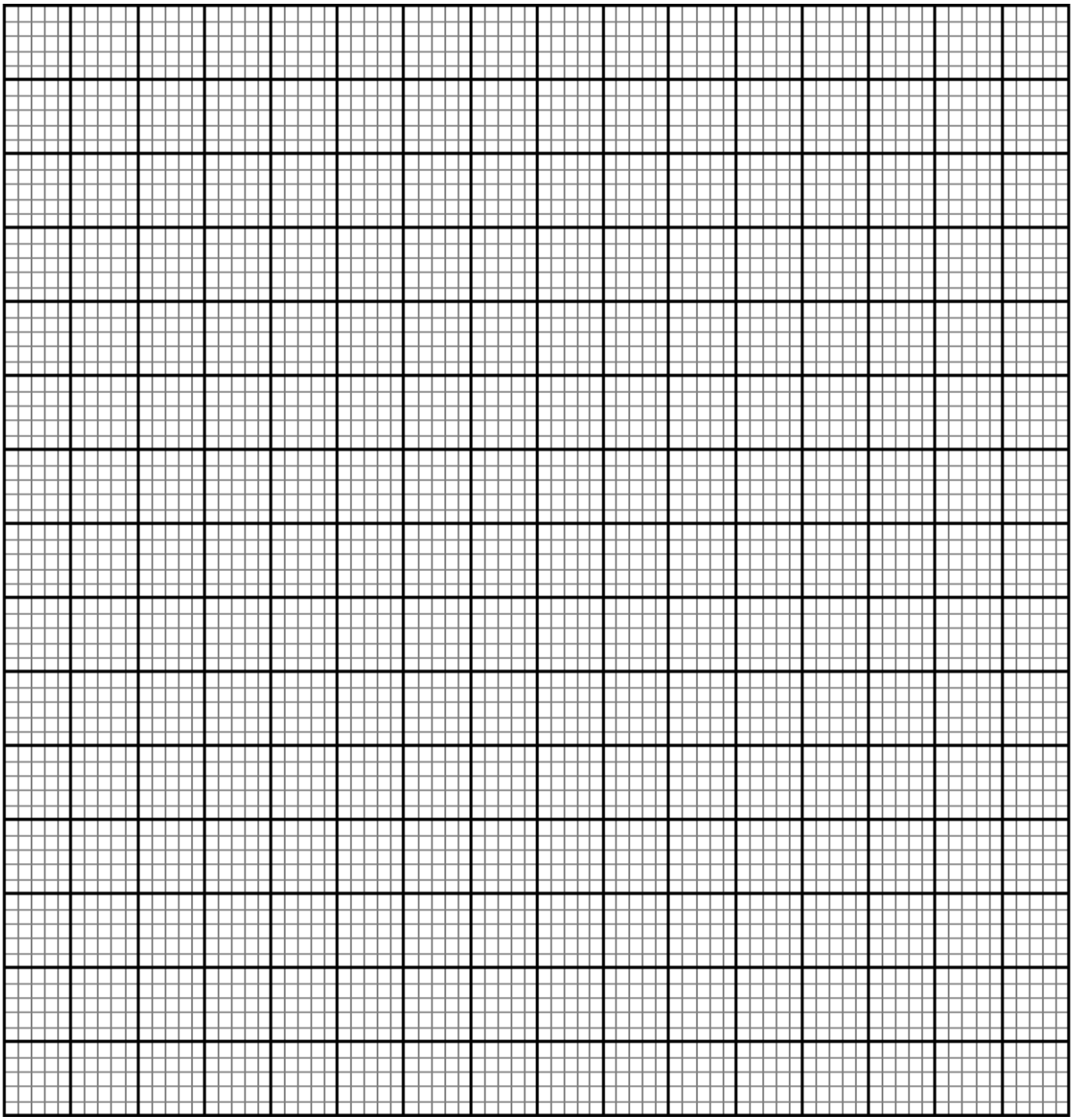
24. The following Distribution shows the marks obtained by 72 students in a mathematical test.

Marks	20-29	30-39	40-49	50-59	60-69	70-79	80-89
Frequency	3	13	13	13	14	12	4

(a) Use the information above to draw a cumulative frequency (Ogive) curve on the grid provided.



(b) Use your graph to estimate

(i) Median **(1mk)**

(ii) Lower quartile and upper quartile **(3mks)**

(iii) Quartile deviation. **(1mk)**

(c) The percentage of candidates passing if the pass mark is 42 marks. **(3mks)**

KCSE 23

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KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

COMPUTER STUDIES

451/1

PAPER 1 (THEORY)

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *Write your name and index number in the space provided above.*

b) *Sign and write the date of examination in the spaces provided above.*

c) *This paper consists of **two** sections **A** and **B**.*

d) *Answer **all** the questions in section **A**.*

e) *Answer question **16** and any other **three** questions from section **B**.*

f) *All answers should be written in the space provided in the question paper.*

g) ***Candidates should answer the questions in English.***

FOR EXAMINER'S USE ONLY

Section	Question Number	Candidate's Score
A	1-15	
B	16	
	17	
	18	
	19	
	20	
Total Score		

SECTION A (40 MARKS)

Answer all question

1. In a computer class a teacher taught on removable storage media. State three precautions of preventing data loss in such media that the teacher may have mentioned. **(3 marks)**

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2. What is the function of an antistatic wrist member? **(1 mark)**

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3. Classify the following software's according to purpose. **(4 marks)**

	software	Classification
1.	Need for Speed Game	
2.	BIOS	
3.	Google Chrome Browser	
4.	Adobe InDesign 6	

4. Differentiate between Sequential file organization and indexed-sequential file organization.

(2 marks)

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5. List four threats to a computer system. **(4 marks)**

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6. Distinguish between relative and absolute cell references as used in spreadsheet. **(2 marks)**

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7. List three characteristics of a soft computer system. **(3 marks)**

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8. Briefly describe two transcription errors. **(2 marks)**

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9. a) List two advantages of secondary storage devices which make them indispensable part of a computer. **(2 marks)**

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b) Give two reasons why magnetic tape is not a popular secondary storage device. **(2 marks)**

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10. Define the following as used in word processing. **(2 marks)**

i) Word wrap**.**

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ii) Drop Cap

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iii) Orphan

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……

iv) Widow-

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11. Name the two common types of system units and differentiate them. **(2 marks)**

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12. Without proper marketing, a business cannot survive in a competitive environment hence computers are being used in a number of ways to enhance marketing. List any three ways of ensuring this is effected. **(3 marks)**

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13. Control unit is an essential component of the CPU. Describe the functions of the control unit. **(2 marks)**

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14. Speech recognition devices are used to capture natural sound and convert the input into digital form. State two problems related to speech recognition devices. **(2 marks)**

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15. (a) Differentiate between pasteboard and master page as used in DTP **(2 marks)**

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(b) Differentiate between graphic-based and layout based desktop publishing software.**(2 marks)**

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SECTION B (60 MARKS)

ANSWER QUESTION 16 AND ANY OTHER THREE QUESTIONS IN THIS SECTION

16. (a) Define the following terms as used in programming **(2 marks)**

i) Source code

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……

ii) Object code

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(**b) Differentiate** between Assembler and Interpreter as used in programming. **(2 marks)**

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……

(c) Identify the type of programming language used in the codes below; **(1 mark)**

(i) 1101 1101 1011 1011

1110 0001 1100 0111

0010 1110 1011 0011

……

……

(ii) LDA A, 20

ADD A, 10

STO B, A

NOP

……

……

(d) On the Nairobi-Nakuru highway, the Kenya Police have put speed cameras at a certain point to read the time a vehicle passes a point (A) on the road and then reads the time it passes a second point (B) on the same road. (Points A and B are 200 meters apart). The speed of the vehicle is calculated using:

- $\boldsymbol{Speed = \frac{100}{(time\ at\ point\ B - time\ at\ point\ A)}\ (Km/\ hr)}$
- *The maximum allowed speed is 100 kilometers per hour.*
- *500 vehicles were monitored using these cameras over a 1-hour period.*

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(i) Write a pseudo code, which: **(5 marks)**

- Inputs the start time and the end time for the 500 vehicles that were monitored
- Calculates the speed for each vehicle using the formula above.
- Outputs the speed for each vehicle and a message if the speed exceeded 100 km/hour.

>=100km/hr “High Speed”

<100km/hr “Normal Speed”

(ii) Draw a flow chart for the above pseudo code. **(5 marks)**

KCSE 23

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17. a) Describe two health issues related to working with computers and give a remedy for each. **(4 marks)**

b) Robots are introduced into a factory which makes car engines. Describe three ways this could affect the workers. **(6 marks)**

c) List two duties performed by the following personnel **(2 marks)**

i) Database administrator

ii) Computer trainer **(2 marks)**

iii) Web administrator **(2 marks)**

18. a) Differentiate between a database and DBMS. **(1 mark)**

b) List two advantages of using electronic database systems. **(2 marks)**

c) In database system, data integrity ensures the correctness and completeness of the data in the database. Differentiate the following types of integrity constraints.

i) Validity integrity **(1 mark)**

i) Entity integrity **(1 mark)**

ii) Referential integrity **(1mark)**

d) Briefly describe any three database models. **(3marks)**

e) (i) Differentiate between error handling and interrupt handling as used in operating systems. **(2 marks)**

(ii) State **three** reasons why most network technicians prefer using command line operating systems to configure networking equipment. **(3 marks)**

19. (a) Define the following terms as used in networking. **(3marks)**

(i) Network

(ii) Intranet

(iii) Browser

(b) The World Health Organization is global entity that deals with health issues around the world. It has computer networks linking its regional and continental offices using internet. State **two** importance of the internet to such organization. **(2 marks)**

(c) Mr. Zuma, the Principal of a school wishes his school to have an internet connection in a bid to improve its service delivery. Mention **four** internet connectivity requirements that must be present to enable the connection. **(2 marks)**

(c) Explain the following as used in e-mail:

- Inbox **(1 mark)**
- Drafts **(1 mark)**

(e) (i) Failure of information systems is a major concern in the security of data in computing systems. State **two** causes of such failure. **(2 marks)**

(ii) Explain the following computer crimes.

- Fraud **(1 mark)**
- Industrial espionage **(1 mark)**

(f) Excluding passwords, state **two** other security control measures used to guard against unauthorized access to computers in a network. **(2 marks)**

20. (a) Convert the 1010.011_2 to decimal equivalent. **(3 marks)**

(b) Perform the following number system conversions. **(3 marks)**

(i) 342.25_8 to binary.

(ii) 503_{10} to hexadecimal (**3 marks)**

(c) (i) Compute the binary arithmetic given below: **(3 marks)**

10111 + 10001 + 101

(ii) Using 8-bit notation, perform the **twos** complement of 25_{10} -15_{10}, leaving your answer in binary. **(4 marks)**

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KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

COMPUTER STUDIES

451/2

PAPER 2 (PRACTICAL)

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

- *Type your name and index number at the top hand corner of each printout.*
- ***Write your name and Adm no. number of the CD-RW***
- *Write the name and version of the software used for each question attempted in the answer sheet*
- *Passwords **should not be** used while saving the CDs*
- *Answer **all** questions*
- *All questions carry equal marks*
- *All answers must be saved in your CD*
- *Make printouts of the answers on the answer sheets provided*
- *Hand in all the **printouts** and the **CDs***
- *Arrange your printouts and staple them together*

FOR EXAMINERS USE ONLY

QUESTION	MAX. MARKS	CANDIDATE' S SCORE
1	50	
2	50	
TOTAL SCORE		

1.a) The following table was extracted from a form four class. Create a workbook named performance .Enter it as it is and save it as grades. Use it to answer the questions that follow.

(12mks)

	A	B	C	D	E	F	G	H
1	2012 Exam							
2	End of term Exam Analysis							
3		Name	Exam1	Exam 2	Exam 3	paper	Participation	
4	1	Jane	64	70	73	85	75	
5	2	Tony	70	77	88	95	90	
6	3	Jenney	77	83	79	88	80	
7	4	Richard	69	43	81	78	75	
8	5	Rachael	91	90	86	95	88	
9	6	David	44	26	54	78	80	
10	7	Roger	77	85	86	85	88	
11	8	Allen	83	86	92	85	88	
12	9	Victor	97	80	82	85	68	
13	10	Allan	69	69	50	85	75	
14	11	Brad	95	89	89	95	85	
15	12	James	91	84	92	85	80	
16	13	Arthur	87	79	84	85	80	
17	14	Robert	76	73	80	82	80	
18	15	June	82	84	74	88	85	
19	16	David	70	41	57	73	70	

(b) Add the following two students before victor and enter the following information: **(3mks)**

Name: Thomas, Washington.

Exam 1: 82 65

Exam 2: 75 79

Exam 3: 81 84

Paper: 87 92

Participation: 94 65

(c) Copy the data in the worksheet grade and paste it in worksheet 2 and save as Rank. **(2mks)**

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(d) Calculate the final average for each student. The three exams should each count 25% of the final average, the paper should count for 15%, and participation should count for the remaining 10%. Using Absolute cell referencing. **(5mks)**

(e). Calculate the class average for each exam. **(3mks)**

(f) Apply one decimal point to the average point **(2mks)**

(g) Rank the students based on average points **(3mks)**

(h) Sort the students based on rank after average in ascending order **(2mks)**

(i) Create a column after rank and name it Grade. Using IF function, grade the students based on the following criteria. (A=90-100; B=80-89; C=70-79; D=60-69; F=below 60) **(6mks)**

(j) Below the average for each exam get the highest score and lowest score for exam1, exam2, and exam3 **(4mks)**

(k)Create a chart that shows the grade distribution for the final average and insert in a new worksheet. **(5mks)**

(l)Print the following GRADE, RANK and CHART **(3mks)**

Question 2

The following tables were extracted from king secondary school.

STUDENTS TABLE

AdmNo	StudentName	Class	Male	DOB
1021	AMOS WOKO	4E	Y	10/08/2005
1023	JUNE KENDI	4N	N	23/01/2002
1025	WINNIE OMOKE	4N	N	02/07/2003
1027	CHARLES OPIYO	4E	Y	10/04/2001

EXAMS

Term	AdmNo	Opener	MidTerm	EndTerm
T1/2021	1021	56	65	45
T2/2021	1021	78	76	67
T1/2021	1023	77	78	78
T2/2021	1023	45	67	70
T1/2021	1025	87	56	85
T2/2021	1025	67	74	69
T1/2021	1027	68	69	58
T2/2021	1027	83	89	56

LIBRARY TABLE

AdmNo	BookNo	BookTitle	DateIssued
1021	COMP 2/002	LOG ON COMPUTER BOOK 2	10/2/2020
1023	COMP 2/004	LOG ON COMPUTER BOOK 2	10/2/2020
1025	COMP 2/201	LOG ON COMPUTER BOOK 2	20/2/2020
1027	COMP 3/007	LOG ON COMPUTER BOOK 3	11/2/2020
1027	COMP 4/004	LOG ON COMPUTER BOOK 4	10/2/2020
1023	COMP 4/006	LOG ON COMPUTER BOOK 4	11/2/2020
1025	COMP 3/002	LOG ON COMPUTER BOOK 3	6/2/2020
1023	COMP 1/004	LOG ON COMPUTER BOOK 1	6/2/2022

i. Create a database file and name it as **KingsSchool** **(2 mks)**

ii. Design the tables listed above and set the most appropriate primary key and data types. **(9mks)**

iii. Create appropriate relationships among the table and enforce referential integrity **(3mks)**

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iv. Create appropriate form to enter the records above. **(9mks)**

v. Design the query that shows list of students who have borrowed books in the Library. Save the query as borrowed books **(3mks)**

vi. Using a query, Calculate the total scores for each student. Save the query as totals. **(4mks)**

vii. Create a query called Age to display Adm No, Book No, Student name, D.O.B and Age of the student by the year 2021. **(5mks)**

viii. Design a query to extract the list of students whose name has letter A. Save the query as THE A **(4 mks)**

ix. Create a report to display student name, subject score, total scores per subject and the average score per subject grouped by classes' performance. Save the report as performance. **(6 mks)**

x. Create a report of all students and save it as students. **(2 mks)**

xi. Print the following; **(3 mks)**

a) Library table
b) Totals query
c) Performance report.

For Marking Schemes - Contact 0746 222 000 / 0742 999 000

KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

HOME SCIENCE

441/1

PAPER 1 (THEORY)

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

1. Answer ALL question In the spaces provided

2. Sector A and B are compulsory

3. Answer any two question in section C

FOR EXAMINERS USE ONLY

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATES
A	1-19	40	
B	20	20	
C	21 22 23	20 20 20	
TOTAL		100	

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SECTION A (40 MARKS) COMPULSORY

1. State **three** advantages of using wood panels as well covering **(3mks)**

……

……

……

2. Give **two** reasons for smoking a latrine **(2mks)**

……

……

……

3. Name **two** type of flour made from wheat **(2mks)**

……

……

4. Give two reason for preheating an oven to the correct temperature before putting the food item in the oven **(2mks)**

……

……

……

5. Name any **four** soft furnishing used in the toilet **(2mks)**

……

……

……

……

6. What is the role of VCT in sate parenthood **(2mks)**

……

……

……

7.) Define the term kitchen hygiene **(1mk)**

……

……

8. State classification of kitchen equipment and give two example in each case **(3mks)**

……

……

……

9. Give the principle used in bottling of fruit juices **(2mks)**

……

……

……

10. Highlight **<u>two</u>** uses of a colander as a kitchen equipment **(2mks)**

……

……

……

11. Name **<u>four</u>** types of fuel used when ironing clothes **(2mk)**

……

……

……

……

12. Why is synthetic filament commonly used to make brushes for scrubbing the toilet **(2mks)**

……

……

……

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13. State **<u>three</u>** ways of minimizing wastage of detergent during washing (**3mks)**

……

……

……

……

14. Give **<u>other</u>** names of the following nutrients **(2mks)**

Vitamin E……..

Vitamin B_2……

Vitamin B_{12}……

Vitamin C…….

15. List **<u>two</u>** permanent stiches used to neaten open seam **(2mks)**

……

……

……

16. Give **<u>two</u>** qualities of a good baby bed. **2mrks**

……

……

……

17. Name **<u>three</u>** ways in which ignorance may lead to malnutrition **(3mks)**

……

……

……

18. Define the term fuel as used in seams **(1mk)**

……

……

19. State **two** characteristics expected of a first Aider **(2mks)**

……

……

SECTION B (20 MARKS) COMPULSORY

20. Analyse how to carry out the following activities at home during the holidays.

(i) Describe how to clean your school synthetic bag **(10mks)**

(ii) Describe how you will arrange flowers during your birthday party **(10mks)**

SECTION C

Answer any two questions from this section

21.

a) State **four** signs of a child suffering from Kwashiorkor **(4mks)**

b) Explain **four** points to consider when buying a washing machine **(8mks)**

c) Explain how the following measurements are taken in a garment construction **(3mks**

(i)Hip

(ii)Waist

(iii)Bust

d) State **five** reasons that has made convenience food quite popular today in the market **(5mks)**

22. (a) State **four** ways of coping with inflation in today's society **(4mks)**

(b) Explain **four** precautions to take when handling yeast mixtures **(8mks)**

(c) State **six** roles of a swing needle machine apart from straight stitch **(6mks)**

(d) State **two** qualities to look for when buying a toy for a six month old baby **(2mks)**

23. (a) State five determinants of safe parenthood **(5mks)**

(b) Differentiate between persuasive and competitive advertisement **(4mks)**

(c) Explain **four** methods used in flour mixtures to introduce the raising agents **(8mks)**

(d) State **six** possible causes of a machine needle breaking during stitching **(3mks)**

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KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

HOME SCIENCE

441/2

PAPER 2 (PRACTICAL)

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

HOME SCIENCE

441/2

PAPER 2

PRACTICAL

TIME: 2 ½ Hours

CLOTHING CONSTRUCTION

INSTRUCTIONS

a) This paper consist of 3 printed papers

b) Candidates should check the question paper to ascertain that all pages are printed as indicated and that no question are missing

A pattern of a child dress is provided. Your are advised to study the sketches the questions paper and the layout before the text

Materials provided

1. Pattern pieces

(a) Dress front
(b) Dress back
(c) Sleeve
(d) Front neck facing
(e) Back neck facing

2. Plain light weight cotton fabric 70cm by 90 cm wide.
3. Sewing thread to match the fabric
4. Cotton lace one inch wide by 25 cm long

The Text

Using the material provided, cut out and make up the LEFT HALF of the child's dress to show the following

a) Making of the French seam at the shoulders
b) Joining of the side with a neatened plain seam. Neaten with overcasting stitches
c) Joining of the underarm seam using a neatened open seam
d) The attaching of the lace on a lower edge of sleeve using an overlaid seam

N/B Do not neaten or trim

e) The preparation and the attachment of the sleeve, Neaten with loop stitches
f) The preparation and the attachment of the neck facings
g) Management of the dress hem (handmade)

At the end of the examination, firmly sew on your work on a single fabric a label bearing your name and index number. Remove needles and pins from your work, then fold your work carefully and present if for marking

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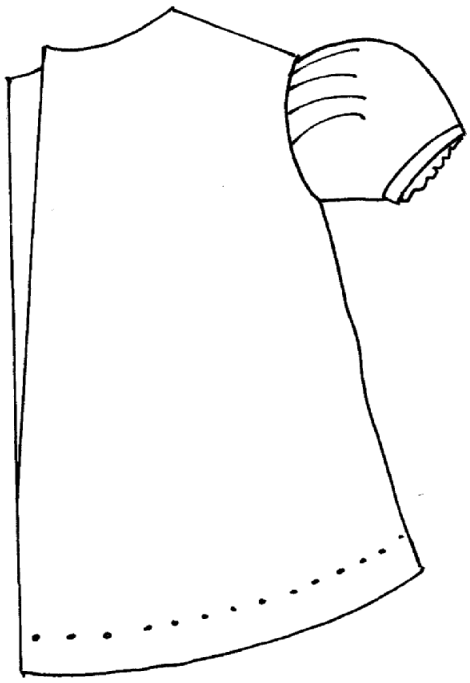
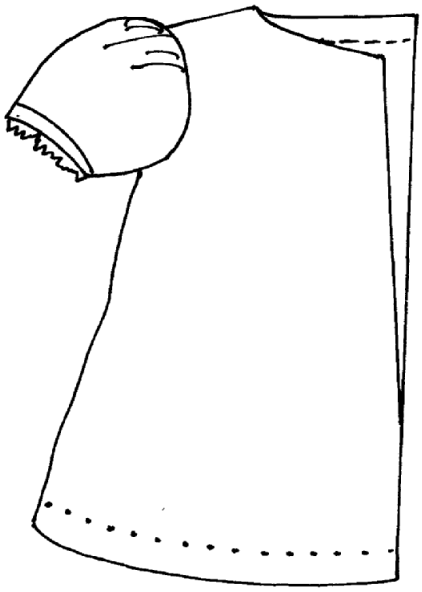
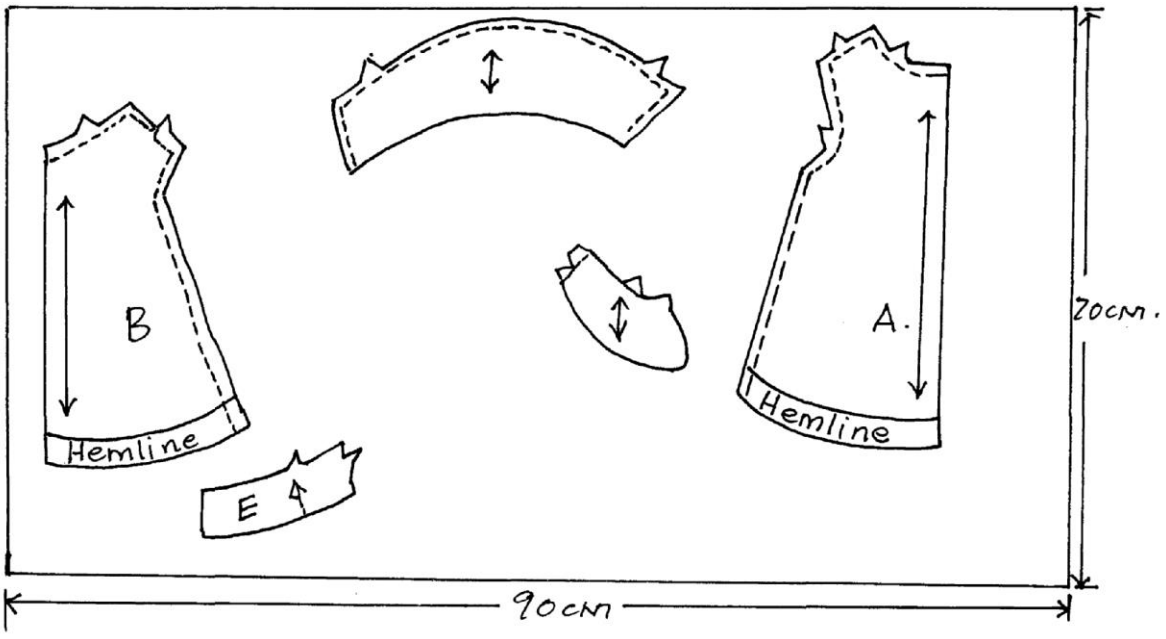


BACK VIEW



FRONT VIEW

LAYOUT (NOT DRAWN TO SCALE)



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KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

HOME SCIENCE

441/3

PAPER 3

TIME: 1¾ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

PAPER 3(FOOD AND NUTRITION)

FOOD AND NUTRION

PLANNING SESSION: 30 MINUTES

PRACTICAL TEST SESSION: 1 ¼ HOURS

INSTRUCTIONS TO CANDIDATES

1. *Read the test carefully*
2. *Write your name, index number and class on every sheet of paper used during the planning session as reference materials*
3. *Textbooks and recipes may be used during the planning session as reference materials*
4. *Previously written plans are not allowed into the examination room*
5. *You are only allowed to take away your preference material at the planning session*
6. *You will be expected to keep your order of work during the practical session*
7. *You are not allowed to bring additional notes to the practical session*

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THE TEST

You are hosting a family friend and her 7month old baby. Using the ingredients listed below prepare, cook and serve

a) A two dish meal for the two of you

b) A suitable ,meal for the baby

Ingredients

Rice/ Irish potatoes

Beef

Green peas/ French beans

Carrots

Corriander

Salt

Tomatoes

Fat/oil

Sugar

Milk

Onions

Capsicum

Sorghum/millet flour

PLANNING SESSION (30 MINUTES)

For each task listed below use separate sheets of paper to make duplicate copies then proceed as follows

i. Identify the dishes and write down their recipes

ii. Write down your order of work

iii. Make a list of food stuff and equipment you will require

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KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

ART AND DESIGN

442/1

PAPER 1

TIME: 1½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS

1. *Write your Name, Adm. No and Class in the spaces provided above.*
2. *This paper consists of **THREE Sections A, B** and **C.***
3. *Answer **ALL** the questions in **Section A** and **B.***
4. *Answer any **ONE** question from **Section C.***
5. *All answers should be written in the **spaces provided**.*
6. *Where drawings and diagrams are appropriate they should be included **within the text of you answer**.*

SECTION	QUESTION	MAXIMUM MARKS	STUDENT'S SCORE
A	1 (a-l)	20	
B	2	05	
	3	05	
	4	05	
	5	05	
	6	05	
C		15	
	TOTAL	60	

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Section A: (20 marks)

(Answer all the questions in the spaces provided)

1. a) Study the illustration given and answer the questions that follow.



i. Mention the appropriate technique that was used to produce it. **(1mk)**

……

……

ii. Mention any one tool and material used. **(2mks)**

……

……

……

b) Explain the smearing technique of drawing forms. **(1mk)**

……

……

……

c) State and explain any material that is used in clay correction during the preparation process. **(2mks)**

……

……

……

d) How can ornaments be used to preserve a nation's heritage? **(1mk)**

……

……

……

e) Give any two factors to consider in packaging design. **(2mks)**

……

……

……

f) State any four tools used in weaving**.** **(2mks)**

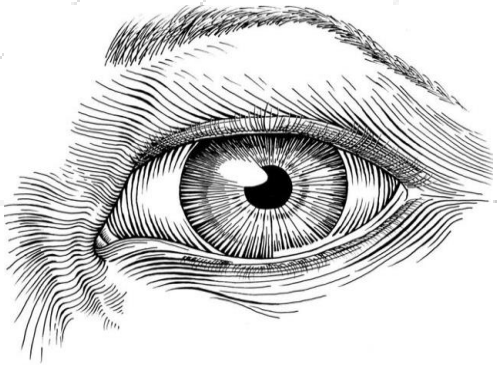
……

……

……

……

g) Study the diagram below and answer the questions that follow.



i. State the most outstanding element used in the picture. **(1mk)**

……

ii. Explain one use of the above-mentioned element**.** **(1mk)**

……

……

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h) Distinguish between a monochromatic colour scheme and an analogous colour scheme. **(2mks)**

……

……

……

……

i) Illustrate and state the importance of a view finder in Art**.** **(2mks)**

……

……

……

j) Explain the 3 techniques of making marks on a surface. **(3mks)**

……

……

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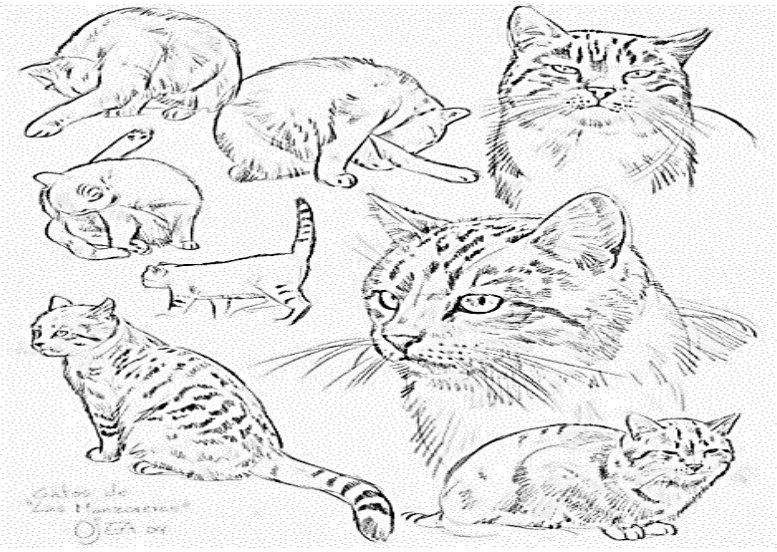
……

……

……

SECTION B: 25MKS

2. a) Identify the stage and approach of drawing the illustration given is**.** **(1mk)**



Stage……

Approach……

b) Highlight any two advantages of using the above mentioned approach and 2 disadvantages. **(4mks)**

……

……

……

……

……

……

3. a) Differentiate between tritik and discharge technique of decorating fabric in terms of the process. **(2mks)**

……

……

……

……

b) Explain the importance of using shellac on a silk screen as opposed to varnish. **(1mk)**

……

……

……

c) Define serigraphy as a printing process and mention two techniques used under the process. **(2mks)**

……

……

……

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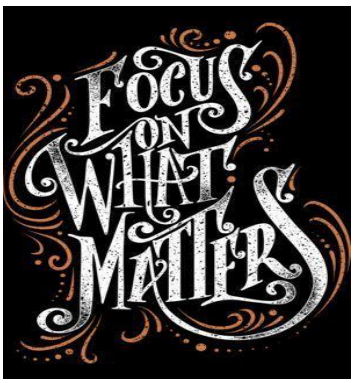
4. a) Identify the types of illustrations shown. **(3mks)**







……

b) Explain the importance of illustrations in a graphic artwork. **(2mks)**

……

……

……

5. a) Explain the mosaic technique under the following:

i. support **(1mk)**

……

……

ii. pasting **(1mk)**

……

……

iii. materials **(1mk)**

……

……

b) Outline the importance of interstices in a Mosaic artwork. **(2mks)**

……

……

……

6. a) Differentiate between visual symbols and corporate symbols. **(1mk)**

……

……

……

b) Identify and list four components of a badge. **(4mks)**

……

……

……

……

……

Section C: (15mks)

(Answer only one question in this section in the space provided after question 9)

7. a) Define the batik technique. **(1mk)**

b) Explain how wax is molten for the batik process. Why? **(2mks)**

c) Discuss how you would produce a decorated fabric in 3 colours using the batik technique. **(10mks)**

d) Outline how to finish the fabric. **(2mks)**

8. a) What do you understand by the term printmaking **(1mk)**

b) Explain the following printing techniques **(8mks)**

i. Relief printing

ii. Intaglio

iii. Serigraphy

iv. Lithography

c) Mention and explain the tools used in any three techniques mentioned above. **(6mks)**

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9. a) Discuss the following hand building techniques. **(12mks)**

i. Slab

ii. Pinch

iii. Scoop

b) Outline the importance of: **(3mks)**

i. Slaking day

ii. Kneading

iii. Storing day

Answers.

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KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

ART AND DESIGN

442/2

PAPER 2 (PRACTICAL)

TIME: 3 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

442/2

FORM 4 END TERM TWO

ART AND DESIGN (PRACTICAL)

PAPER 2

TIME: 3 HRS

INSTRUCTIONS TO CANDIDATES

(a) This paper contains two alternatives; A and B. Each alternative has two options

(b) Choose only ONE option from any one alternative

(c) This question paper will be given to you ONE HOUR before the start of the examination to enable you to make your choice from the alternatives. During this one hour you are allowed to make sketches on the A4 papers provided.

(d) The use of rulers and other mechanical means is forbidden in alternative A; but is allowed in alternative B

(e) Clearly write your name and index number, the alternative and number of option chosen.

(f) At the end of examination, pass your work without rolling or folding it

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Answer only ONE question chosen from EITHER alternative A or alternative B

ALTERNATIVE A: DRAWING/PAINTING

You are instructed that the use of rulers and other mechanical means is forbidden in this alternative

DRAWING

OR

PAINTING

1. Produce a composition of an **art student** explaining a painting/drawing work of art to an audience.

The work should be done on an area measuring 35cm by 45cm.

ALTERNATIVE B: GRAPHICS

You are instructed that the use of rulers and other mechanical means as well as tracing paper is allowed in this alternative. The color of the working surface (paper) will not be considered as one of the colors required in any question.

2. Design and produce a **birthday** card for your **grandfather** who is turning 68 years old to include an appropriate illustration and should be done in 3 colours.

The working area should be 22cm by 18cm.

3. Design and produce a **3 cells cartoon strip** of an **art room lifestyle** in 3 colours.

Working area should be 30cm by 20cm.

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KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

FRENCH

501/1

PAPER 1

(Listening, comprehension, dictation and imaginative writing)

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

- *Write your name and index number in the spaces provided above.*
- *This paper consists of three sections.*
- *In section I you have five minutes to read through the questions before the test starts. Before answering the questions you will listen to several recorded passages on a CD.*
- *For each passage you will answer questions as indicated to you or' the CD.*
- *In section 3, choose only one composition*
- *Answer all the questions in the spaces provided.*
- *In section 3, choose only one composition*

FOR EXAMINER'S USE ONLY

Question	Maximum score	Candidate's score
I	15	
II	05	
III	15	
TOTAL	35	

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SECTION 1

Passage 1

SONDAGE

Fill in the table below by supplying the required information on the person being interviewed.

a.	Nom:	(0.5point)
b.	Age:	(0.5point)
c.	Petit boulot:	Le…….de…….à……. (Le jour) (l'heure) (1.5pts)
d.	Détails du peti boulot:	i)…….(0.5pts) ii)…….(0.5pt) iii)Et quelquefois faire……..(0.5pt)

e. Quel est son avis concernant le boulot en question? **[1 point]**

……

……

……

2. Passage 2

FLASH-INFO

Fill in the blanks using one word only

D'après le Flash-info, Madame Chebet qui _____(i) Ia rue Kimathi s'est cassé le (ii)_____

gauche car le conducteur de Ia Peugeot _____(iii)ne s'est pas arrêté aux _____(iv)rouges. Cet accident a eu lieu a _____(v) du matin. [2.5 points]

3. Passage 3

MESSAGE SUR UN REPONDEUR

a) Complete the following table. Put an (X) if the answer is not mentioned in the recorded text.

i.	Ia personne qui laisse un message	
ii.	jour de Ia sortie	
iii.	type de sortie	
iv.	lieu	
v.	prix	

(2 .5points)

b) De quelle nationalité est l'amie de Lucie _____ [0.5point]

c. A quelle heure commence Ia sortie_____ (0.5pt)

d. Complétez le numéro de téléphone. 06 _____ [1 point]

e. Combien seront-ils en tout ?_____ [0.5 point]

4. Passage 4

UNE PUBLICITÉ

Answer the following questions

a. Dans quelle région est-ce qu'on fera la randonnée? (1/2 point]

_____

b. D'où partira Ia randonnée?

[1/2point]

_____

c. Combien coûte cette activité [1/2 point]

_____

d. Citez deux activités par laquelle la journée terminera [1 point]

i) _____

ii) _____

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SECTION 2

5. Write the dictation passage in the spaces provided. **[5 points]**

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SECTION 3

2**. Write in French a composition of about 150-180 words on:-**

Either

(a) Vous marchiez dans une rue déserte le soir, quand vous avez entendu des voix derrière vous. Racontez ce qui s'est passé. **(15mks)**

Or

(b) Il faisait nuit. Tout le monde dormait. Soudain, vous avez entendu des bruits bizarres. Racontez la suite.. **(15 mks)**

For Marking Schemes - Contact 0746 222 000 / 0742 999 000

KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

FRENCH

501/2

PAPER 2

TIME: 1¼ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

1. *Write your* ***name, school, Admission*** *number in the spaces provided.*

2. *This paper has 3 sections.*

3. *Answer all the questions in French in the spaces provided.*

4. *Ensure that all pages are printed and that no question is missing*

FOR EXAMINERS USE ONLY

SECTION	MAXIMUM SCORE	CANDIDATES SCORE
I	15	
II	15	
III	10	
TOTAL	40	

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SECTION 1 **(15MKS)**

Read the following passages and answer the questions that follow after each passage.

Passage 1

A 43 ans, une jeune grand-mère a accouché de ses propres petits-enfants dans l'ouest de l'Inde. Sa fille âgée de vingt ans de moins, résidante en Grande Bretagne, ne pouvait pas mener une grossesse à terme car elle ne possède pas d'utérus. Elle a choisi sa mère pour donner naissance à ses enfants sur les conseils des médecins. Selon eux, les chances étaient plus importantes de parvenir à une naissance si la mère porteuse faisait partie de la même famille. <<Les enfants, un garçon et une fille, Pesant respectivement deux kilogrammes et 1,8 kilogrammes - vont bien de même que leur grand-mère, >> a déclaré le docteur qui s'est occupée des deux femmes.

a) Quel âge a la flue de l'histoire? **(1/2 mk)**

……

……

b) Trouvez des expressions dans le texte qui veulent dire la même chose que **(1/2mk)**

i) mettre au monde **(1/2 mk)**

……

……

ii) devenir enceinte **(1/2 mk)**

……

……

c) Où habite la grand-mère? **(1/2 mk)**

……

……

d) Trouvez dans le texte, le synonyme de :

docteur

(1/2mks

PASSAGE 2

Paris,janvier 2011

Mon amour,

Ce soir, je me sens envahi d'une grande tristesse et il faut que j 'écrive pour te dire encore combien ton absence me pese.. On dit. "loin des yeux loin du Coeur." Quel mensonge! Pour moi

aucun jour ne se passe sans que je pense à toi. Tes paroles les plus tendre sont à tout jamais gravées dans mon Coeur et tous les souvenirs du temps passé avec toi de notre rencontre à notre séparation restent intacts dans ma mémoire. Tu me manques horriblement tous les jours, toutes les heures du jour et de la nuit, tout Ie temps.

Mais ma chérie, nous devons être patients. Même si des milliers de kilomètres nous séparent, chaque minute nous rapproche l'un de l'autre.

Courage! Dans six mois nous nous reverrons, et même qui sait, peut être avant… Je travaille très dur pour avoir ce diplôme qui me permettra de trouver un emploi. Je serai alors libre et nous pourrons vivre ensemble; dans mon pays en France n'importe pourvue que nous soyons ensemble. Je ne vis que ce moment où je pourrai à nouveau te serrer dans mes bras.

Ecris-moi! Chacune de tes lettres me procure une joie indicible; même si elles mettent trop de temps a arriver de sorte que je ne sais jamais ce que tu fais, ce que tu penses, ce que tu sens au moment ou je les lis.

Je t'embrasse comme je t'aime, c'est-à-dire comme un fou.

Mel

Questions

2.a) Qui est l'expéditeur de cette lettre **(½)**

……

b) A qui est-ce qu'il écrit cette lettre'? **(1 mk)**

……

c) pourquoi est-ce que l'auteur de cette lettre n'est pas d'accord avec cc proverbe

" Loin des yeux, loin du Cœur ?" **(2mks)**

i)……

ii)……

d) Donnez les antonyms de :

i) bonheur

…… (1/2mk)

ii)sage

……..(1/2mk)

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PASSAGE 3

Une française de 29 ans vivait à Londres. Mitchelle Vilimek est portée disparue depuis dimanche dernier et la police britannique a lancé un appel aux temoins pour la retrouver, rapport le parisien-Dimanche. Inquiet, un ancien petit ami de la femme, qui travaillie comme serveux dans la capitale britannique, a prévenu la police de Twickenham, quartier où elle reside, présice le journal.

3. a) Dans ce texte, quel est le problème? **(½pt)**

……

……

b) Qu'est-ce que la police fait pour rèsoudre ce problèmé ? **(1/2pt)**

……

……

c) Qù `est –ce qui Ì ancien petit ami de Mitchelle ? **(Ipt)**

……

……

d) Qù 'est-ce que l'ancien ami de Mitchelle fait pour gagner la vie? **(1/2pt)**

……

……

e) Où habite Mitchelle? (1/2pt)

……

……

PASSAGE 4

La Foire Internationale de Ongus ouvrira aujourd'hui pour une durée de six jours. On y attend 20.000 visiteurs qui pourront y voir tous les produits agricoles ainsi que la technologie locale industrielle la plus récente. Cette Foire-ci est la plus importance manifestation de ce genre dans ce continent.

4 a) Ce texte, il s'agit de quoi ? **(1/2mk)**

……

……

b) Quelles sortes des produits peut –on y voir ?

(1mk)

i)……

……

ii)……

……

c) Quelle est la durée de cette foire ?

……(1/2mk)

PASSAGE 5

Mon amie m'a offert un cadeau d'anniversaire merveilleux cette année. Elle m'a donné deux billets pour concert fabuleux à Londres. Le groupe s'appelle " Purple Heat" et à mon avis c'est le meilleur groupe du monde on est arrivé au concert deux heures avant le commencement et les files étaient si longues que l'on a du attendre une heure entière.

Finalement, on est arrivé a nos places et le concert a commencé la musique et l'ambiance étaient inoubliables et tout le monde cruit et applaudissait. On voulait passer la nuit entière a écouter cette musique mais malheureusement à minuit le concert s`est terminé.

"purple Heat" va faire un autre concert au bout deux semaines et j'ai déjà rèsevé des billets. Ça vaut la peine

a) Qu'est -ce qu'on a offert comme cadeau d'anniversaire? **(1pt)**

……

……

b) Pourquoi est-ce qu'on a attendu pendant une heure? **Ipt)**

……

……

c) On a déjà acheté des billets pour Ie prochain concert de "purple heat" parce que.

…….

(1/2pt)

…….

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……

(1/2pt)

……

……

d) Trouvez dans Ie texte le synonyme de: “merveilleux”

(1/2pt)

……

……

SECTION 2

6 a) Rewrite the following sentences beginning as indicated. Avoid unnecessary repetition.

EX: Tu vois Marie?

Non, je ne la vois pas…… **(1mk)**

a) Hélène, fais ton travail !

Hélène , il faut que ……. **(1mk)**

b) Les vacances dernières, toute la famille est allée à Mombasa.

Les vacances prochaines ……..

(1mk)

c) Le facteur delivre les lettres chaque matin

Les letters …….. **(1mk)**

d) Phoebe : Aimes –tu des serpents ?

Julie : Je n’……..

(1mk)

e) Le professeur m’a demandé :<< As-tu terminé ton travail ?>>

il m’a demandé …….. **(1mk)**

f) Avez-vous trouvé quelqu’un en classe ?

Non,nous……..

g)Papa a pris son petit dejeuner puis il est sorti

Apres avoir…….

7 Fill in the blanks with the most appropriate word. **(4mks)**

Je viens (a)_____prendre un boulot et je ne suis pas (b)_____ diplomé. Vous savez (c)_____France, la situation économique est (d)_____ favourable que personne nést au chômage. De temps (e)_____temps, on voit dais tes journaux les appels

(f)_____ poser des candidatures aux postes variés.

Tant (q)_____pour moi, j'aurai mon diplôme (h)_____ six mois.

a)_____

b)_____

c)_____

d) _____

e) _____

f) _____

g)----------

8**) Que dites vous dans les situations suivantes**.

a) A quelqu'un qui a la grippe **(1mk)**

_____

b) A un footballeur qui est sur le point de jouer **(1mk)**

_____

c) A votre professeur de biologie quand vous êtes en retard pour le cours **(1mk)**

_____

d) Vous voyes un girafe pour la premièrer fois **(1mk)**

_____

___

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SECTION III **(10MKS)**

9. In 120-150 words, write in French, one composition on:

Either:

a) Vous voulez reserver deux chambres pour vous et votre ami (e) à un hotel à Mombasa. Ecrivez une lettre pour reserver des chambers.

or :

b) Vous êtes arrivé(e) en retard à l'école. Ecrivez une lettre à votre directeur/directrice pour expliquer pourquoi vous êtes en retard.

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KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

FRENCH

501/3

PAPER 3

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

MWALIMU CONSULTANCY PREDICTION

501/3

FRENCH

PAPER 3

KCSE PROJECTION

Reading aloud

CARD A

Habituellement, le sport est pratique pour un but précis ; pour perdre du poids, garder la forme, maintenir une bonne santé, faire des efforts physiques, se détendre entre ami. Mais il peut également être un bon moyen pour décompresser et oublier le stress du quotidien. En effet, les bienfaits du sport ne sont pas simplement au niveau physique mais également au niveau mental. Les angoisses et les dépressions seront facilement surmontables par sa pratique.

Par ailleurs, il a été prouvé que faire du sport 30 minutes par jour rallonge l'espérance de vie. Ainsi, le sport est une discipline indispensable pour le bienêtre et la sante. Pour pouvoir la pratiquer quotidiennement, le plaisir devra être votre source de motivation.

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MWALIMU CONSULTANCY PREDICTION

501/3

FRENCH

PAPER 3

KCSE PROJECTION

Reading aloud

Card B

La pratique du sport de compétition représente également un atout considérable pour le développement personnel. En effet, qu'il soit collectif ou individuel, le sport apprend à se connaitre soi-même tout en développant un esprit gagnant. Une personne en effet se prépare mentalement, s'entrainer pour améliorer ses performances afin de sortir vainqueur de son épreuve. Ainsi le sport de compétition reste un atout à faire valoir aussi bien chez les adultes que les enfants. Dans tous les cas, le plus important est de toujours y prendre du plaisir puisque selon les études, la motivation de pratiquer le sport, mais surtout de gagner vient principalement de ce sentiment.

MWALIMU CONSULTANCY PREDICTION

501/3

FRENCH

PAPER 3

KCSE PROJECTION

Reading aloud

Card C

Le sport en tant que loisir

Même si faire du sport pour un simple plaisir n'est pas meilleur que de le pratiquer a but compétitif, il n'en reste pas moins qu'il offre encore de nombreux bienfaits pour le corps et l'esprit. Pour les parents qui souhaitent inculquer a ses enfants les valeurs de la discipline, le respect d'autrui est la prise en charge de sa santé. Le sport reste un moyen très efficace. Tout comme les sports de compétition, le sport pour le plaisir peut être individuel ou collectif dans les deux cas, il représente toujours de nombreux avantages. Vous pourrez par exemple la pratiquer pour impressionner quelqu'un ou pour garder la forme. Mais le sport peut aussi être employé pour diverses raisons ; pour gagner la vie ou pour socialiser.

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MWALIMU CONSULTANCY PREDICTION

501/3

FRENCH

PAPER 3

KCSE PROJECTION

Reading aloud

Card D

Traditionnellement, les différentes cuisines africaines utilisent une combinaison de produits locaux tels que les fruits, les céréales et les légumes, ainsi que le lait et la viande. Dans certaines ; parties du continent, le régime alimentaire traditionnel intègre le lait, le lait caille et le petit lait. Cependant, dans une grande partie de l'Afrique tropicale, le lait de vache est rare et ne peut pas être produit localement (en raison de diverses maladies qui affectent les bétails). Il existe aussi les différences, parfois très importants, dans les habitudes et les préférences de boissons ou alimentaires en fonction des différentes régions, cultures, ethnies et en raison de la nombreuse population du continent.

MWALIMU CONSULTANCY PREDICTION

501/3

FRENCH

PAPER 3

KCSE PROJECTION

EXPOSÉ

INSTRUCTIONS TO CANDIDATES

- You will talk on the topic given overleaf.
- You will have ten minutes to prepare for the task.
- You will have two minutes to talk about the topic

CARD A

Les réseaux sociaux est très important dans la vie quotidienne. Discutez

MWALIMU CONSULTANCY PREDICTION

501/3

FRENCH

PAPER 3

KCSE PROJECTION

INSTRUCTIONS TO CANDIDATES

- You will talk on the topic given overleaf.
- You will have ten minutes to prepare for the task.
- You will have two minutes to talk about the topic

CARD B

Parlez de la pollution dans votre pays.

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MWALIMU CONSULTANCY PREDICTION

501/3

FRENCH

PAPER 3

KCSE PROJECTION

EXPOSÉ

INSTRUCTIONS TO CANDIDATES

❖ You will talk on the topic given overleaf.

❖ You will have ten minutes to prepare for the task.

❖ You will have two minutes to talk about the topic

CARD C

Une petite famille est mieux qu'une grande famille. Qu'en pensez-vous ?

MWALIMU CONSULTANCY PREDICTION

501/3

FRENCH

PAPER 3

KCSE PROJECTION

EXPOSÉ

INSTRUCTIONS TO CANDIDATES

❖ You will talk on the topic given overleaf.

❖ You will have ten minutes to prepare for the task.

❖ You will have two minutes to talk about the topic

CARD D

Parlez des activités économiques les plus pratiquées dans votre région.

MWALIMU CONSULTANCY PREDICTION

501/3

FRENCH

PAPER 3

KCSE PROJECTION

EXPOSÉ

INSTRUCTIONS TO CANDIDATES

- You will talk on the topic given overleaf.
- You will have ten minutes to prepare for the task.
- You will have two minutes to talk about the topic

CARD E

D'après vous, quels sont les causes des accidents routiers au Kenya?

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KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

GERMAN

502/1

PAPER 1

(Grammar and Reading Comprehension)

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

Instructions to candidates

1. *Write your name and Adm number in the spaces provided above.*
2. *Sign and write the date of the examination in the spaces provided above.*

For Examiner's use only

Section	Maximum Score	Candidate's Score
1	15	
II	20	

SECTION I

Listening Comprehension (15 marks)

Passage 1

Listen to the conversation carefully and answer the following questions.

1. Wo spielt die Szene?

.....(1\2mk)

2. Wer hat eine Bitte?

.....(1\2mk)

3. Was hat Baraka vergessen?

.....(1\2mk)

4. Was kann er in seiner Situation nicht machen?

.....(1\2mk)

Passage 2

5. Wo spielt die Szene?

.....(1\2mk)

6. Was macht der Arzt im Moment?

.....(1\2mk)

7. Wann kann dieser Patient den Arzt sehen?

.....(1\2mk)

8. Wo wartet der Patient?

.....(1\2mk)

Passage 3

Listen to the passage carefully and answer the following questions by indicating whether the statements are True (R) OR False (F)

		Richtig R	Falsch F
9.	Wir wollen unsere Umgebung akzeptieren.		
10.	Das ritchtige Image braucht keine Accesso		
11.	Man kann nicht so tun, als ob man eine and Person wäre.		
12.	Die richtigen Farben spielen eine wichtiger Rolle.		
13.	Man sollte harmonisch mit seiner Figur und seinem Körpertyp arbeiten		
14.	Bei Frauen ist Make-up nicht so wichtig		

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Passage 4

15. Hat Marias Mutter die beiden geschickt, für sie einzukaufen?

.....(1\2mk)

16. In welchem Geschäft kaufen die beiden ein?

.....(1mk)

17. Welche drei Sachen stehen auf der Einkaufsliste?

.....(1mk)

18. Aus welchen Ländern kommen die exotischen Früchte?

.....(1mk)

19. Wie viel Geld haben die beiden im ersten Laden ausgegeben?

.....(1\2mk)

20. Wie viel Geld erwartet der Verkäufer von Katanas Mutter?

.....(1mk)

SECTION 11(20 marks)

Write a letter or an essay of about 220—250 words on ONE of the following topics in the pages provided.

I. Deine Freunde/deine Freundinnen in Deutschland interessieren sich für kenianische Musik. Schreibe einen Brief und informiere sie über folgende Punkte:
— Welche Musik hörst du gem und warum?
— Was hältst du von deutscher Musik?
— Welche kenianische Musikbands sind bei Jugendiichen beliebt?
— Welches Musikinstrument spielst du oder würdest du gem lemen?
— Welches Konzert würdest du unbedingt besuchen?

2. Schreibe einem deutsehen Brieffreund/einer deutschen Brieffreundin Uber Freizeitaktivitäten in deinem Heimatland und berucksichtige dabei folgendes:
— Die beliebtesten Freizeitaktivitäten bei Jugendlichen in deinem Heimatland,
— Unterschiede zwischen Freizeitaktivitäten in Deutschland und in deinem Land,
— Vorteile und Nachteile der Freizeit unter Jugendlichen,
— Deine Meinung über Freizeit in der Schule,
— Deine Lieblingsfreizeitaktivität.

3. Kannst du dir vorstellen, einen wichtigen Preis zu gewinnen? Das ist mir passiert. Schreibe die Geschichte zu Ende.

4. Schreibe einen Aufsatz über das Thema: „ Die Zeit bedingt das Leben”

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KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

GERMAN

502/2

PAPER 2

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

1. This paper has three sections A,B and C.

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SECTION A

GRAMMAR

A) Negate the following sentences using kein-nitch or the antonym of the adjective or adverb appropriately

1) Das komitte hat viel Geld **(1mk)**

.....

.....

2) Herr Mwálela ist ein schlechter Manager

.....

.....

B) Fill in the blank spaces using the correct forms of pronouns given in the brackets

3) Der Geldbeutel und der Gürtel haben _____ gut gefällen (er)

4) Morgen ruft er _____ an (du)

5) Er möchte _____ bald zur Hochzeit einlaclen (1hr)

6) Den Termin sage ich _____ morgen Bescheid, Her Omollo (sie)

C) Fill in the blank spaces using the correct W question words

Example : Irene Wartet auf den Bus

Worauf coartet Irene?

7) Kilonzo fährt nach Hause

_____ Fährt Kilonzo?

8) Sie sprechen gerade über die ßarty ?

_____ sprechen sie gerade?

9) Das Obst ist frisch

_____ Ist das Obst?

10) Die ßarty soll gegen 19:00uhr anfangen

_____ Soll die ßarty anfangen?

11) Das ist der Brieftasche des lehrers

_____ Brieftasche ist das?

D) Form correct sentences using the words given in the present past

12) Buchstabieren –meine Kleine Schwester-den straßennamen.

.....

.....

13) anhalten –am Jacobsplatz –der Bus.

.....

.....

14) Lesen –du-Warum?-das Straßenchild –so genau.

.....

.....

E) Complete the following sentences with an appropriate relative pronoun with or without a preposition

15) Den Herrn,_____ Ich gerade gesprochen habe , Kennst du sicher auch

16) Dieser Roman erzählt , die Geschichte einer Frau , _____ leben ein Beispiel für alle ist

17) Die leute , _____ ich wohne , sind zur zeit verreist

18) Das ist der Junge _____ Vater Direktor ist

F) Adjektivendungen Bestimmter Artikel / singular.

Zß: Baum /groß

Steht in unserem Garten.

ANZ: Der grobe Baum steht in unserem Garten

.....

.....

19) Tasche/ lila

Steht auf dem Tisch.

.....

.....

20) Mann lalt

Geht über die strasse.

.....

.....

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21) Ich kaufe

Buch/ interessant.

.....

.....

22) Wir`zeichen

Katze/ dick.

.....

.....

G . Schreiben sie im imperativ.

Herr omond: 23) Sie sollen ihre pässe mitbringen.

.....

.....

24) Du brauchst keine Angst zu haben.

.....

.....

25) 1hr musst euch jeden Tag beeilen.

.....

.....

H) Schreiben sie die Flogenden sätza im Futur.

26) Ich gehe nach Hause

.....

.....

27) Bist du Heute Abend zu Hause?

.....

.....

28) Könnt ihr nach Hause fahren?

.....

.....

29) Es regnet morgen

.....

.....

G) Fill the blanks with either am ,im or um

30) Ich habe ..... September Geburtsctag

31) Ihr ßrefft Petras Familie .....8 uhr

32) Wir planen .....Sonntag die Eltern zu besuchen .

H) Rewrite in reported speech (chrekte und indirekte rede)

33) Er sagte :,, ich wohne in Frankfurt."

.....

.....

34) Maria fragte : ,, was hat er gesagt?"

.....

.....

35) Die Tante sagte ihrem Neffe: ,,sei nicht so laut!"

.....

.....

36) Die Touristen fragten mich ,, können sieo un den Weg zeigen"

.....

.....

I) Fill in the correct past tense form of the verb given in the brackets

37) Wir ……den jungen am Montag in der Disko. (sehen)

38) Am Folgenden Abend .....ihr in die USA –ein tolles Erlebnis! (fliegen).

39) Wann .....das konzert denn genau.....? (anfangen)

40) Am Mittwoch .....die Familie Nimmert mit dem Fahirrad zum see (Fahren)

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SECTION II: Reading comprehension (20mks)

Read the following passage and answer the question that follow.

GULLIVERS REISE NACH

Das Schiff fuhr nach Ostindien und die ersten Monate ging alles gut. Ich hatte nicht viel zu tum. Als Arzt auf dem Schiff behandelte ich einen Beinbruch, zwei Darmentzündungen, drei Durchfälle, vier groBe Beulen und fünf gobrochene Zähne. Auch Wind und Wetter boten nichts AuBergewöhnliches. Aber Ende Oktober gerieten wir in einen fürchterlichen Sturm, der kein Ende nehmen wollte

Drei matrosen wurden Über Bord gespült, zwei wurden von einem Mast erschlagen, sieben starben durch Überanstrengung, die Messinsrumente fielen aus, der Kapitän wusste nicht mehr, wo wir waren, und am 5. November lief das Schiff bei Nacht und Nebel auf ein Riff. Die ,,Antilope "zerbrach und sank.

Ich weiß nur noch, dass ich zusammen mit fünf Matrosen in einem Rettungsboot saß. Wir

10. ruderten mit aller Kraft, um weg von den Felsen zu kommen, Nach einer Stunde kippte das Boot um, und wir waren unter Wasser. Plötzlich fühlte ich Grund unter den Füßen und richtete mich auf! Ich watete vorwärts, und das Wasser wurde flacher und flacher. Nach einer Weile betrat ich festen Boden! Wo war ich? Ich hörte nichts, sah keinen Weg, kein Licht, kein Haus und auch keinen Menschen, Dankbar und sehr müde lieB ich mich ins Gras sinken und schlief em. Am nächsten Morgen, als ich erwachte, schien mir die Sonne direkt ins Gesicht, so dass ich mich umdrehen wollte, Doch mich konnte rnch nicht urndrehen! Dann wollte ich die Hände vors Gesicht legen, aber die, Hände rührten sich nicht Dann wollte ich mich aufsetzen. Es misslang! Ich wollte den Kopf heben und drehen Auch das war unmöglich. Wegen des Sonnenlichts versuchte ich, mit aller Kraft mich aufzusetzen oder zu drehen. Alles war vergeblich. Bei jeder Bewegung tat mir der ganze Körper unheimlich weh!

Ich war gefesselt! Nur die Augenäpfel und Augenlider konnte ich bewegen, sonst nichts. Aber wer hatte mich festgebunden? Waren esAmeisen? OderSpinnen? Waren sie giftig?Dachten sie, ich sei tot?

Ais ich auf dem Boden Tag, spürte ich, wie irgendetwas auf meine Hosenbeine krabbeite. Ich wurde neugierig. Auf einmal blickte ich auf meine Weste, und war erscbrocken! Das war doch nicht moglich! Wisst ilir, was ich gesehen hatte'? Mindestens vierzig Menschen, keiner größer als mein kleinster Fingernagel! Alle standen zusammen auf meiner Brust und trugen Lanzen und Speere, Pfeile und Bogen!

Jetzt wusste ich also, warum ich bei Nacht geglaubt hatte, dass die Gegend unbewohnt war. Ich erwartete groBe, beleuchtete Häuser und normale Menschen, aber doch nicht Zwerge! Und diese

30 Zwerge waren aber sogar ftinfzigmal kleiner als die kleinsten Zwerge, die ich je gesehen hatte! Zum Glück konnte ich meine linke Hand befreien, ein wenig bewegen und damit meine Augen bedecken. Es war auch gut, dass ich eine Weste aus Leder tnug, denn die kleinen Soldaten haben vergeblich versucht, mit ihren Speeren, Lanzen und Degen in mich hineinzustoßen, während sie auf meiner Brust standen, aber ihre Waffen verbogen sich im Westenleder. Ich entschloss mich, so still

35 wie em Toter zu liegen, und sie hörten auf, mich anzugreifen.

Erst nach Monaten, als ich ihre Landessprache verstand, erfuhr ich, dass ihr Land Liliput heiße und ein Kaiserreich sei. Die liliputanische Sprache ist nicht einfach zu verstehen, nicht nur wegen der seltsam klingenden Wörter, sondern auch weil die Liliputaner sehr, sehr leise sprechen. Auch ihre Maschinen, ihre Glocken und ihre Marschmusik machen nicht den geringsten Lärm,
40 jedenfalls nicht für unsere grollen Ohren.

Now answer the following questions using the spaces provided.

1. Was war der Erzähler von Beruf**?** **(1 mark)**

……

……

2 Was ging alles auf dem Schiff kaputt**?** **(1 mark)**

……

……

3. Warum war es für Gulliver unmöglich, sich zu bewegen? **(1 mark)**

……

……

4. Womit vergleicht der Erzähler die Größe der Liliputaner? Nenne zwei Beispiele! **(1 mark)**

……

……

5. Warum dachte der Erzähler, die Gegend sei unbewohnt**?** **(1 mark)**

……

……

6. Welche Ängste hatte Guffiver, als er gefesselt auf dem Boden lag? **(1 mark)**

……

……

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7. Warum war Gulliver dankbar, dass er seine Lederweste trug? **(1 mark)**

……

……

8. Nenne drei Charakteristika der Liliputaner. **(3 marks)**

……

……

……

……

PASSAGE B

B Read the following passage and answer the questions that follow.

UBERGEWICHT - JEDES FÜNFTE KIND IN DEUTSCHLAND IST ZU DICK!

Ubergewicht bei deutschen Kindern und Jugendlichen ist ein Problem, das immer mehr um sich greift: Inzwischen ist jedes fünfte Kind in der Bundesrepublik heute übergewichtig. Der Trend: Es gibt immer mehr Ubergewichtige Kinder. Experten sprechen schon von einer Epidemie.

Seit den 80er Jahren hat sich der Lebensstil in Deutschland mehr und mehr verändert, Kinder verbringen immer mehr Zeit vor dem Fernseher oder dem Computer anstatt Sport zu treiben.

So genannte Kinderlebensmittel enthalten oft zu viel Fett und zu viel Zucker. Kinder, die richtig und gesund essen und trinken, haben eindeutig Vorteile im Kindergarten und in der Schule. Sic haben größere Leistungsreserven, müssen nicht mit den Problemen von ürbergewicht kämpfen und schaffen sich eine gute Basis für gute Gesundheit später in ihrem Leben.

Es ist eigentlich ganz logisch: Wer durch reichliche Mahlzeiten mehr Energie aufnimmt, als sein Stoffwechsel verbrennt, setzt Fettpolster an. Neuere Studien zeigen, dass 10 bis 20 Prozent aller Kinder und Jugendliche Ubergewichtig sind, und 7 bis 8 Prozent aller Kinder und Jugendliche sind stark ubergewichtig. Das Problem ist, dass 85 Prozent der dicken Kinder auch als Erwachsene mit Ubergewicht zu kämpfen haben. Doch das Gewicht ist nicht nur genetisch bestimmt: Vor allem ist die Erziehung sehr wichtig. Von den Eltem und an den Schulen bekommen die Kinder darüber hinaus oft zu wenig Information flber gesundes Essen. Wenn dieser Trend halt, werden in 40 Jahren 50% der Erwachsene ünter Fettleibigkeit leiden.

Ubergewicht verursacht viele Probleme, zumBeispiel Herz- und Kreislauferkrankungen, Diabetes und Bluthochdruck. Viele Kinder haben Koordinationsstorungen, bevor sie mit der Schule beginnen. Und manche haben dann Probleme, wenn sie später im Leben Jobs suchen oder auch bei der Partnersuche.

Für die Bundesregierung ist Ubergewicht von großer Bedeutung. Darum will das Verbraucherministeriurn mehrere Millionen Euro für eine neue Ernahrungsbewegung bereitstellen. Das Ministerium hat den Plan, dass Kinder lernen, was gesunde Ernährung

25 ist und was richtige Ernahrungsgewohnheiten bewirken. Hierzu gibt es bereits jetzt Praventionsprogramme, zum Beispiel, die Kampagne" KINDER LEICHT - BESSER ESSEN, MEHR BEWEGEN". Diese Kampagne verbreitet Informationen tiber gesunde Ernährung und mehr Bewegung. Es gibt auch den Beratungsservice " Fit-Kid- Die Gesund-Essen-Aktion in Kitas" für besseres Essen, das wenig Fett und wenig Zucker enthält.

30 Eltern, die ubergewichtige Kinder haben, müssen rechtzeitig verstehen, dass Ubergewicht ein gesundheitliches Risiko darstellt. Die Eltern müssen auch dafür sorgen, dass Kinder nicht so fett essen, und noch dazu ihre körperliche Aktivität steigern, Zu Hause soll die Selbstkontrolle geschult werden, damit die Kinder nicht zu viel essen. Kinder, die schon übergewichtig sind, brauchen Hilfe und Therapie, um ihre Motivation zu steigern und ein positives Selbstbild zu

35 entwickeln. In diesem Aspekt sind Mitschüler und Mitschülerinnen, Lehrer, Ärzte und Therapeuten sowie die Medien, Politiker und prominente Leute wie Filmstars und Sportier sehr wichtig. Wenn die Kinder zum Arzt gehen, sollten wie bei Erwachsenen auch Blutdruck, Fett-, Insulin- und Glukosespiegel gemessen werden; ujd die Ergebnisse ganz ehrlich diskutiert.

Now answer the questions that follows correctly

1. Wie viel Prozent der deutschen Kinder sind ubergewichtig**?** **(1 mark)**

……

……

2. Welches Wort in dem ersten Abschnitt zeigt, dass das Problem eine schlimme Krankheit ist?

(1 mark)

……

……

3. Was können Kinder im Kindergarten, die richtig essen, besser machen als Kinder, die ungesund essen?

(1 mark)

……

……

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4. Weiche Gefahr gibt es möglicherweise in vier Jahrzehnten für die deutsche Bevölkerung, wenn die Tendenz so bleibt, wie sie ist? **(1 mark)**

……

……

5. Welche zwei Faktoren tragen zum Ubergewicht bei? **(1 mark)**

……

……

6. Welche zwei Nachteile können übergewichtige Kinder haben, wenn sie Erwachsene werden? **(1 mark)**

……

……

7. Wie hilft das Verbraucherministerium, dieses Problem in Deutsehland zu lösen**?** **(1 mark)**

……

……

8. Welche Rolle sollen die Eltern der übergewichtigen Kinder spielen**?** **(1 mark)**

……

……

9. Wie kann man die übergewichtigen Kinder positiv behandeln und ihnen helfen? **(1 mark)**

……

……

10. Warum ist es immer leichter für Kinder in Deutschland, einen faulen Lebensstil zu haben? **(1 mark)**

……

……

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KCSE 2023 PROJECTION EXAMS

(PREDICTION SERIES)

GERMAN

502/3

PAPER 3

TIME: ¼ HOUR PER CANDIDATE

NAME……

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INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

502/030A

GERMAN

PAPER 3A

(ORAL)

TIME: I5 MINUTES PER CANDIDATE

INSTRUCTIONS TO CANDIDATES:

(a)This paper consists of 2 printed pages

(b) Candidates should check the question paper to ascertain that all pages are printed as indicated and no questions are missing

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ORAL PASSAGE A

Lies den folgenden text laut vor

Read the following text aloud with correct pronunciation and intonation

DIE EXPO 2000 IN HAUNNER.

Auf de Expe2000 stellten sich 155 Nationen vor. Die Niederlander hatten einen der spekulärsten pavillions. 6 Landschaften stapelten sich übereinander und vermittelten des Bild eines “Gig Mac”

Das motto:“ Holland schafft Raum”

Der jemen hatte einen palast gebaut. Erglich bis ins Detail einem jermenitischen Handelshaus**,** einer “Samara” Wingize Laden umgaben einen marktplatz auf demes nach Gewürzen duftete. Hier standen schmuck , Textilien und Geschirr zum Verkauf .Auf dem Dach des Pavilions von Eastland rauschte ein fischtenwald.

Millionen Besucher kamen aus verschiedenen landern, die große Ausstellung zu bewundern. Die länderpavillions,das.Themenpark und das Kulturprogramm boten eine. Vielfältige Unterhaltung an, und einer brauchte 2 bis3 Tage, das Ganze zu sehen. Der “Wal” in dem Judengliche aus aller Welt über die Welt diskutieren, war das wahrzeichnen der Expo 2000.

CONVERSATION A

Wähl ein Thema aus und sprich ausführlich dariiber :

A 1 Sollen Männer im Haushalt helfen? Was meinst du?

A 2 Eine Kleine Famillie ist besser als groß Familie. Begründe deine meinung?

A 3 Welche eigenschaften müssen gute Freunde in deiner Meinung nach haben?

A 4 Schau das gegebene Bild genau. Beschreibe es sprich ausfiihrlich darüber.



KCSE 23

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502/030B

GERMAN

PAPER 3B

(ORAL)

TIME: I5 MINUTES PER CANDIDATE

Read the following text aloud with correct pronunciation and intonation

ORAL PASSAGE B

Lies den folgenden Text laut vor.

MEIN TRAUM

Kürzlich kaufte ich mir cinen Film über Charlie Parker. Dieser Film nahm mich gefangen. Ich saß davor Wie angeklebt. Charlic Parker war Jazz- saxofonist. Ich finde, er war der genialste und vielleicht

einflussreichste schwarze Musiker dieses Jahrhundcrts.

Er war mein Idol, als ich 16 war, deshalb kaufte ich alle seine Platten. Und noch heute ist er der Auslöser meines Traumes.

In meinem Traum ist da, auch dieses Geräusch :ein Klopfen an derTür. Er ist es selbst Er drückt mir ein Saxofon in die Hand und sagt: : Spiel es, hol alles ihm raus: Ich knnn kein Instrument spielen.

Ich kann nicht malen, ich habe nicht einmal eine schonc Handschrift. Charles Parker wurde ansehen und antworten: Mann, alles eine Frage der Ubung, der Ausdauer, des Ehrgeizes, der Diziplin. Ich wurde in Jahr 1943 geboren und mein Traum ist immer Instrument so zu spielen, wie ich es mir ausmale –mit Gefuhl mit Sex Appeal, mit Kraft und mit Schmerz.

CONVERSATION B

Wähl ein Thema aus und spich ausführlich darüber?

B 1) Männer sollen im Haushalt helfen? was meinst du?

B 2) Eine große Familie ist besser als eine weine Familie .Begründe deine meinung.

B 3) Einige Freunde oder Freuden sind schlecht. Erkiàle.

4 B) Schau das gegebene Bild genau?Beschreibe es und sprich ausführlich darüber.



KCSE 23

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THE END

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