KCSE 2025 MOKASA MOCKS

ALL SUBJECTS

(MOI GIRLS-KABARAK-SACHO SCHOOLS' MOCK)

To promote academic excellence, top-performing national schools collaborate on this joint mock exam compilation. The goal of this collaborative effort is to push students and enhance their readiness for national exams through the use of challenging tests.

SUBJECTS TESTED;

Mathematics, English, Kiswahili, Biology, Chemistry, Physics, CRE, IRE, Geography, History, Home-science, Agriculture, Business & Computer Studies.

SERIES 2

For Marking Schemes

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

MWALIMU CONSULTANCY

KCSE 2025 MOKASA MOCK EXAM

(MOI GIRLS-KABARAK-SACHO SERIES 2)

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

1. *Write your name and index number in the spaces provided above.*
2. *This paper consists of **SIX** questions.*
3. *Answer any **FIVE** questions.*
4. *This paper consists of 2 printed pages.*
5. *Candidates should answer all the questions in English.*

FOR EXAMINER'S USE ONLY

Marks	1	2	3	4	5	6
Total						

Answer Any Five Questions

1 (a) Identity five national goals promoted through the study of Christian Religious Education **(5mks)**

(b) Give reasons why the Bible is referred to as the word of God. **(8mks)**

(c) Give Seven reasons why Christians read the Bible. **(7mks)**

2 (a) Narrate the call of Abraham (Genesis 12:1-9) **(8mks)**

(b) Show how baptism is a modern form of covenant **(6mks)**

(c) State six challenges that Christians face while practicing their faith in Kenya today **(6mks)**

3 (a) Explain six ways that show King David is an ancestor of Jesus Christ **(6mks)**

(b) Discuss four life skills used by Prophet Elijah to fight against false religion in Israel. **(8mks)**

(c) Why should Christians fight devil worship in Kenya today **(6mks)**

4. (a) Explain the forms of punishment Amos prophesied for Israel and Judah. **(6mks)**

(b) Give six similarities between the Traditional African prophets and the Old Testament prophets. **(6mks)**

(c) Identify eight problems experienced by church leaders in their **work** **(8mks)**

5. (a) Describe the meaning of the symbolic act of buying land by the Prophet Jeremiah **(8mks)**

(b) Give seven reasons why it was important to rebuild the broken walls of Jerusalem **(7mks)**

(c) Give five ways through which Christians settle disagreements among themselves. **(5mks)**

6 (a) Explain the significance of rituals conducted during the ceremonies in Traditional African Communities. **(10mks)**

(b) Which moral values were acquired during marriage in Traditional African Communities? **(5mks)**

(c) Give reasons why Traditional African Communities feared death. **(5mks)**

For Marking Schemes Contact 0746 222 000 / 0742 999 000

KCSE 2025 MOKASA MOCK EXAM

(MOI GIRLS-KABARAK-SACHO SERIES 2)

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

1. *Write your name and index number in the spaces provided above.*
2. *This paper consists of **SIX** questions.*
3. *Answer any **FIVE** questions.*
4. *This paper consists of 2 printed pages.*
5. *Candidates should answer all the questions in English.*

FOR EXAMINER'S USE ONLY

Marks	**1**	**2**	**3**	**4**	**5**	**6**
Total						

Answer Any Five Questions

1. a) Outline Nathan's prophecy about the messiah. **(7mks)**

b) Describe the role of john the Baptist as a forerunner of Jesus. **(7mks)**

c) Give six reasons why Christians find it difficult to apply john's teaching in their lives today. **(6mks)**

2. a) Describe the healing of the Gerasene demoniac in Luke 8:26-39. **(8mks)**

b) Give six qualities of the roman centurion who requested Jesus to heal his servant. **(6mks)**

c) What lesson does Christian learn the healing of the Gerasene demoniac? **(6mks)**

3. a)Describe the triumphant entry of Jesus into Jerusalem in Luke 19:28-48 **(8mks)**

b) What does the manner of Jesus entry into Jerusalem reveal about his person and destiny? **8mks)**

c) What is the importance of the resurrection and ascension of Jesus to Christians today? **(6mks)**

4. a) State five symbolic expressions used in teaching unity of believers. **(5mks)**

b) How did the church in the New Testament demonstrate unity? **8mks)**

c) State seven ways in which Christians can promote unity in the church today. **(7mks)**

5. a) Identify eight Christian teachings on work. **(8mks)**

b) State the role of professionalism ethics in a work place. **(6mks)**

c) Discuss six ways in which the church is helping to reduce the rate of unemployment. **(6mks)**

6. a) Explain the causes of social disorder in our society today. **(7mks)**

b) Why is corruption widespread in Kenya today? **(5mks)**

c) What can Christians do to remedy social disorders? **(8mks)**

For Marking Schemes Contact 0746 222 000 / 0742 999 000

KCSE 2025 MOKASA MOCK EXAM

(MOI GIRLS-KABARAK-SACHO SERIES 2)

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

- *This paper consists of three sections A,B,C*
- *Answer all questions in section A, choose three questions in section B and two questions in section C*
- *Answers to all questions must be written in the answer booklet provided*
- *Candidates should answer questions in English.*

FOR EXAMINER'S USE ONLY

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

SECTION A-25 MARKS

Answer all questions in this section in the spaces provided

1. **Give two** limitations of Genetics as a source of information on History and Government. **(2 mks)**
2. **State the** main dispersal point of the river lake Nilotes during their migration into Kenya. **(1 mk)**
3. Identify two economic duties of Orkoiyot among the pre-colonial Nandi people. **(2 mks)**
4. Give the main reason why Persian domination in the East African Coast declined in the 7th century A.D. **(1 mk)**
5. **What** is the meaning of the term citizenship? **(1 mk)**
6. **How** does divisive politics disunite Kenyans? **(2 mks)**
7. **Give** one way in which the constitution of Kenya guarantees the rule of law. **(1 mk)**
8. **State two** ways how direct democracy is exercised in Kenya today. **(2 mks)**
9. **Identify two** reasons why the chief Baraza is important in Kenya. (2 mks)
10. **What** was the result of the Indian Acquisition Act of 1896? **(1 mk)**
11. **State** the main difference between KANU and KADU in the 1960s. **(1 mk)**
12. **State** two roles which were performed by Jomo Kenyatta in his position as secretary of Kikuyu central Association (K.C.A.) **(2 mks)**
13. **Name** the head of prisons department in Kenya. **(1 mk)**
14. **Apart** from Harambee, give two other National Philosophies adopted in Kenya since independence. **(2 mks)**
15. **State two** measures which the Kenya government has put in place to eradicated food shortages. **(2 mks)**
16. **Who** signs a bill in a county inorder to become a law ready for Gazettement? **(1 mk)**
17. **State** the main challenge facing National Revenue in Kenya today. **(1 mk)**

SECTION B: (45 MARKS)

Answer any three questions from this section in the answer booklet provided.

18.(a)**State** three practices which were introduced by Cushites to other communities.**(3 mks)**

(b) Explain six social results of the migration and settlement of the Oromo speakers by the 19th century. **(12 mks)**

19. (a) Give five factors that promoted the spread of Christianity in Kenya. (**5 mks)**

(b) Explain five effects of slave trade on the people of East Africa. **(10 mks)**

20. (a) State three socio-economic reasons why Britain colonized Kenya in the 19th century. **(3 mks)**

(b) Explain six factors that contributed to the formation of political associations in Kenya before 1939. **(12 mks)**

21. (a) State five contributions of Daniel Arap Moi in the provision of social services in Kenya after independence. **(5 mks)**

(b) Describe five political roles played by the African elected members of parliament during the struggle for independence in Kenya. **(10 mks)**

SECTION C: (30 MARKS)

Answer any two questions from this section.

22. (a) State five main causes of disunity in Kenya today. **(5 mks)**

(b) Explain five factors which promote national integration in Kenya. **(10 mks)**

23. (a) Identify three aspects of democracy. **(3 mks)**

(b) Explain the functions of the Kenya National Commission on Human Rights and Equality commission **(KNHREC).** **(12 mks)**

24. (a) (a) Give three duties of the controller of Budget in Kenya. **(3 mks)**

(b) Discuss six challenges facing various county governments in Kenya today.**(12 mks)**

KCSE 2025 MOKASA MOCK EXAM

(MOI GIRLS-KABARAK-SACHO SERIES 2)

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

- *This paper consists of three sections A,B,C*
- *Answer all questions in section A, choose three questions in section B and two questions in section C*
- *Answers to all questions must be written in the answer booklet provided*
- *Candidates should answer questions in English.*

FOR EXAMINER'S USE ONLY

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

SECTION A-25 MARKS

Answer all questions in this section in the spaces provided

1. Give **two** limitations of using written sources of information of History **(2mks)**

2. Give **one** reason why Homohabilis was referred to as "man with ability" **(1mk)**

3. Give the **main** reason why early agriculture developed in Egypt **(1mk)**

4. Give **two** limitations of barter trade. **(2mks)**

5. Give **one** result of the invention of the wheel in Mesopotamia **(1mk)**

6. Name **two** disadvantages of using a messenger to pass information **(2mks)**

7. State the **main** contribution of the discovery of chloroform in the field of medicine **(1mk)**

8. State **one** political effect of the development of iron technology in Africa **(1mk)**

9. Give **two** reasons that led to decline of Meroe as an early urban centre **(2mks)**

10. State the role of golden stool in the Asante kingdom during the 19^{th} century **(1mk)**

11. State **one** function of the Bataka among the Baganda in the pre-colonial period **(1mk)**

12. Name **two** African countries that were not colonized **(2mks)**

13. Give the administration applied by the British in Zimbabwe **(1mk)**

14. Name **one** political party that fought for independence in Ghana **(1mk)**

15. Give two reasons why USA was reluctant to join the first world war **(2mks)**

16. Name **one** place in Africa where the cold war was witnessed **(1mk)**

17. Identify **two** houses that constitute the United States of America Congress **(2mks)**

SECTION B: (45 MARKS)

Answer any three questions from this section.

18 (a) Give three functions of the Kabaka of Buganda in the pre-colonial period **(3mks)**

(b)Describe the political organization of the Shona kingdom during the pre-colonial period. **(2mks)**

19. (a) State five factors that led to the emergence of trade **(5mks)**

(b)Explain five challenges faced by the Tran Sahara traders **(10mks)**

20. (a) Give five terms of the Berlin conference of 1884 to 1885 **(5mks)**

(b) Explain five factors that influenced king Lewanika to collaborate with the Europeans **(10mks)**

21. (a) Give three reasons for use of assimilation policy in Senegal **(3mks)**

(b) Discuss six reasons why Ghana attained independence earlier than other African countries **(12mks)**

SECTION C: (30 MARKS)

Answer any two questions in this section

22. (a) Outline five objectives of the League of Nations **(5mks)**

(b) Why did the League of Nations fail to maintain world peace? (**10mks)**

23. (a) Name any three French speaking West Africa states that are members of the Economic Community of West African states (ECOWAS) **(3mks)**

(b) Explain six problems which have plagued the East Africa community since its rebirth in 2001. **(12mks)**

24. (a) Give five sources of the British constitution. **(5mks)**

b) Describe five functions of the Monarchy in Britain. **(10mks)**

KCSE 2025 MOKASA MOCK EXAM

(MOI GIRLS-KABARAK-SACHO SERIES 2)

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, admission number and class in the spaces provided above.*

(b) *This paper has* ***two*** *sections:* ***A*** *and* ***B***

(c) *Answer* ***all*** *the questions in section* ***A***

(d) *Answer* ***question 6*** *and any other* ***two*** *questions from section* ***B***

(e) *All answers must be written in the spaces provided after Question 10.*

For Examiner's Use Only

Section	Questions	Candidate's Score	Maximum Score
A	1 – 5		25
B	6		25
			25
			25
	Total Score		100

SECTION A

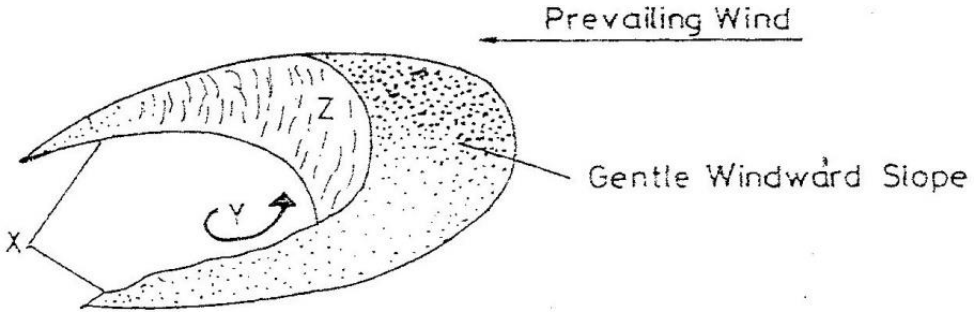
*Answer **all** questions in this section.*

1. (a) How does a land breeze occur? **(2mks)**

(b) (i) Name two ocean currents found on the coasts of West Africa. **(2mks)**

(ii) State one effect of warm ocean current on the adjacent coastlands. **(1mk)**

2. (a) The diagram below represents a barchan. Use it to answer question (a)



Name;

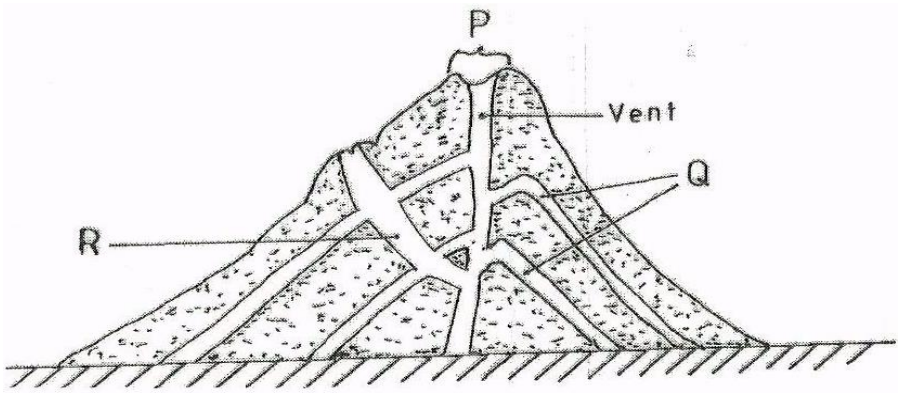
i) The feature marked X. **(1mk)**

ii) The air current marked Y. **(1mk)**

iii) The slope marked Z. **(1mk)**

(b) Give two ways in which wind transports its load. **(2mks)**

3. The diagram below shows a composite volcano.



a) Name the features marked P, Q and R. **(3mks)**

b) Give two ways in which vulcanicity influences human activities. **(2mks)**

4. (a) What is the difference between an ice sheet and an iceberg? **(2mks)**

(b) Name three types of glacial moraines. **(3mks)**

5. (a) Give two components of the solar system. **(2mks)**

(b) State three effects of the movement of the earth around the sun. **(3mks)**

For Marking Schemes Contact 0746 222 000 / 0742 999 000

SECTION B:

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

6. Study the map of Tambach sheet 90/3 (1:50000) provided and answer the questions that follow.

a) i) In which District is the South Western corner of the map? **(1 mark)**

ii) Measure the distance of the road C 52 from Northing 70 to Northing 75. **(2 marks)**

b) i) Citing evidence from the map state **three** social services offered in the area covered by the map. **(3 marks)**

ii) Citing evidence from map, state **three** economic activities carried out in the area covered by the map. **(3 marks)**

a) i) Describe the drainage of the area covered by the map. **(4 marks)**

ii) Describe the distribution of vegetation in the area covered by the map**.** **(4 marks)**

b) i) Using a scale of **1cm represents 20 m**, draw a cross section along northing **57** starting from easting **85** to **91**. **(4 marks)**

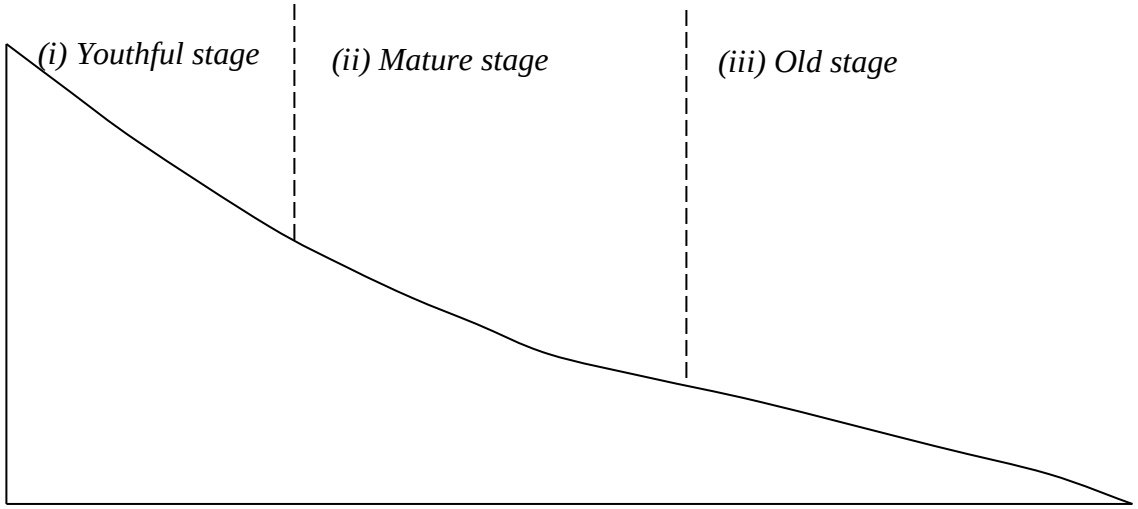
ii) On your cross section mark and name; **(3 marks)**

- **Road C 51 to Kabarnet**
- **Gentle slope**
- **River Kerio**

iii) Are the starting and end points intervisible? **(1 mark)**

7. (a)(i) Difference between a tributary and a confluence. **(2mks)**

(ii) The diagram below shows the three stages of the long profile of a river.



a. Give one activity that takes place in each stage. **(3mks)**

b. State two features formed at the mature stage. **(2mks)**

c. Describe three processes by which a river transports its load. **(6mks)**

d. With the aid of a well labeled diagram, describe the process of a river capture. **(7mks)**

e. You are required to carry out a field study on the materials deposited by a river.

i) State three methods you would use to collect data. **(3mk)**

ii) State two advantages of studying the work of rivers through fieldwork. **(2mks)**

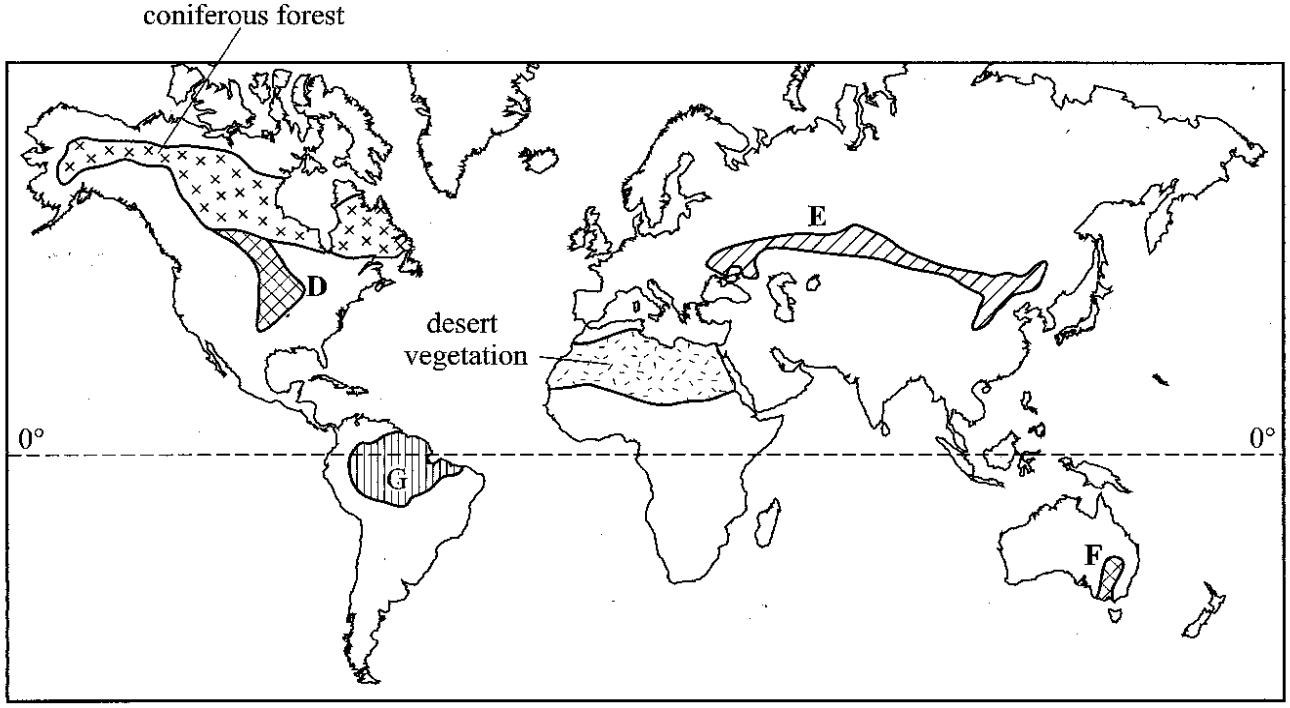
8. (a)(i) Apart from the Rift Valley, name three other relief features formed as a result of faulting. **(3mks)**

(ii) With the aid of diagrams, describe how the Rift Valley may have been formed by tensional forces. **(8mks)**

(b) Explain three ways in which faulting influences drainage systems. **(6mks)**

(c) Explain four ways in which features resulting from faulting are of significance to the economy of Kenya. **(8mks)**

9. The map below shows some vegetation regions of the world. Use it to answer questions (a) and (b)



a) (i) Name the temperate grasslands marked D, E and F. **(3mks)**

(ii) Describe the characteristics of the natural vegetation found in the shaded area marked G. **(6mks)**

b) Explain how the following factors influences existence of various vegetation types.

Altitude:- **(2mks)**

Aspect: - **(2mks)**

Precipitation :- **(2mks)**

Drainage: - **(2mks)**

c) You are required to carry out a field study of the natural vegetation within your local environment.

i) State three activities that are necessary before undertaking the study. **(3mks)**

ii) State two methods that you would use to record the data collected. **(2mks)**

iii) State three follow up activities you are likely to undertake. **(3mks)**

10.

(a)(i) Differentiate between weathering and mass wasting. **(2mks)**

(ii) Give two processes of slow mass wasting. **(2mks)**

(iii) State two physical conditions that may influence landslides. **(2mks)**

(b) Explain the following processes of weathering.

i) Frost action. **(2mks)**

ii) Oxidation. **(2mks)**

iii) Hydration. **(2mks)**

(c) Describe how an exfoliation dome is formed. **(6mks)**

(d) State four indicators of occurrence of soil creep in an area. **(4mks)**

(e) Name three human activities influenced by weathering. **(3mks)**

KCSE 2025 MOKASA MOCK EXAM

(MOI GIRLS-KABARAK-SACHO SERIES 2)

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, admission number and class in the spaces provided above.*

(b) *This paper has **two** sections: **A** and **B***

(c) *Answer **all** the questions in section **A***

(d) *Answer **question 6** and any other **two** questions from section **B***

(e) *All answers must be written in the spaces provided after Question 10.*

For Examiner's Use Only

Section	Questions	Candidate's Score	Maximum Score
A	1 – 5		25
B	6		25
			25
			25
	Total Score		100

SECTION A

*Answer **all** questions in this section.*

1. a) Differentiate between indigenous forests and exotic forests. **(2marks)**

b) State three physical factors which favour the growth and distribution of softwood forests in Kenya. **(3marks)**

2. a) The table below shows Kenya's domestic tangible exports and tangible imports by value in **KSh million** to and from major regions of the world in year 2016.

REGION	EXPORTS	IMPORTS
Africa	**234,673**	**140,241**
Europe	**414,533**	**265,323**
Asia	**140,536**	**956,679**
Americas	**52,891**	**65,190**
All other areas	**8,433**	**4,311**
TOTAL	**578,066**	**1,431,744**

Source: Kenya National Bureau of Statistics

a) i) What is the difference in value of the exports to and imports from Asia? **(1mark)**

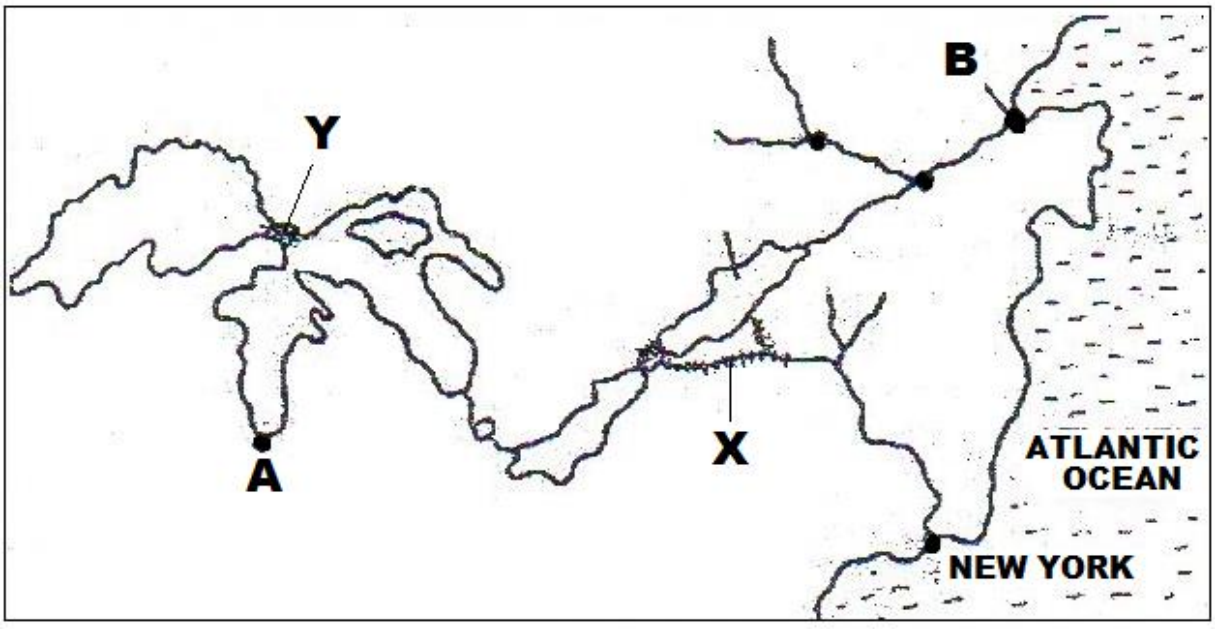
ii) Calculate Kenya's balance of trade for year 2016 **(2marks)**

b) Give two statistical methods that can be used to present the data in the table. **(2marks)**

3. a) **Name** two methods used in alluvial mining **(2marks)**

b) State three effects of limestone mining at Bamburi in Mombasa county **(3marks)**

4. The diagram below shows the Great lakes and St. Lawrence Seaway.



a) Name (i)The canal marked X and Y **(2marks)**

ii) The ports marked A and B **(2marks)**

b) State two objectives of constructing the St. Lawrence Seaway **(2marks)**

5. State four causes of an energy crisis. (4marks)

SECTION B

6. Study the photograph below and use it to answer questions (a) and (b)



a) i) Name the type of photograph shown above **(1mark)**

ii) What time of the day was the photograph taken? **(1mark)**

iii) Name three specific places in Kenya where the photograph is likely to have been taken. **(3marks)**

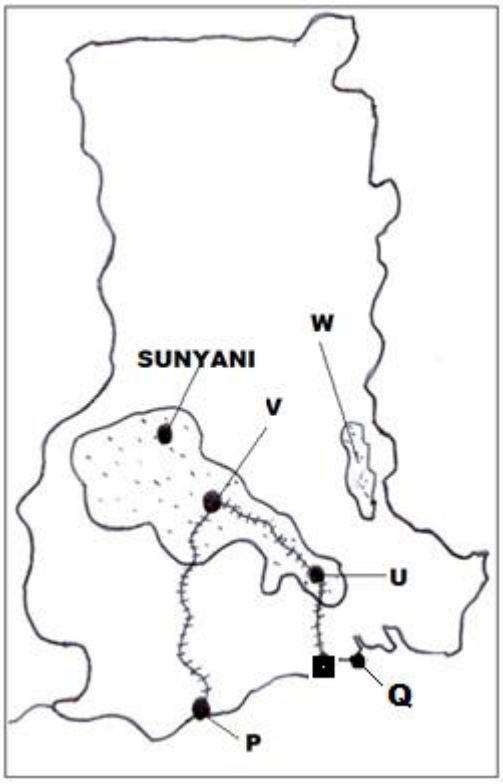
b) i) Citing evidence from the photograph, explain three conditions necessary for the economic activity shown that can be observed from the photograph **(6marks)**

ii) Using evidence from the photograph, explain two health problems that the people practicing this economic activity would experience. **(4marks)**

c) Apart from the method shown on the photograph, give four other methods used to reclaim land in Kenya **(4marks)**

d) Give three differences between land reclamation in Kenya and land reclamation in Netherlands **(6marks)**

7. Study the sketch map of Ghana below and use it to answer the following questions



a) Name(i)The cocoa growing areas marked U, V and W **(3marks)**

ii) The port cities marked P and Q **(2marks)**

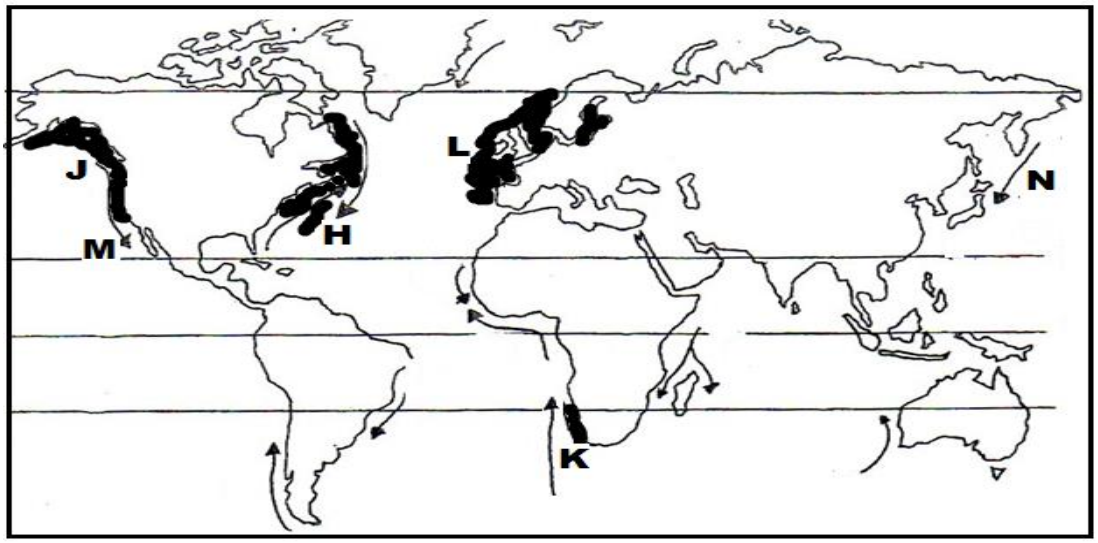
b) State five physical conditions favoring cocoa growing in Ghana **(5marks)**

c) Describe the stages involved in cocoa processing in Ghana. **(7marks)**

d) Explain four economic problems facing cocoa farmers in Ghana **(8marks)**

8. a) What is demersal fishing? **(1mark)**

b) The world map below shows some ocean currents and fishing grounds



i) Name the fishing grounds marked J,K and L **(3marks)**

ii) Identify the ocean currents marked M and N **(2marks)**

iii) Mention three main fish species caught in the fishing ground marked H **(3marks)**

c) Explain four physical factors that have made Japan a great fishing nation **(8marks)**

d) Explain four problems facing the fishing industry in Kenya **(8marks)**

9.a)i)Differentiate between industry and industrialization **(2marks)**

ii) State the benefits of industrialization to Kenya **(5marks)**

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

c) State four ways in which the Kenyan government assists Jua kali industries. **(4marks)**

d) Explain four factors that have led to the growth of the iron and steel industry in the Ruhr region of Germany **(8marks)**

10. a) i) What is a Census? **(2marks)**

ii) State four reasons why a census is important to Kenya **(4marks)**

b) Explain four effects of migration at the place of origin **(8marks)**

c) Explain three causes of a reduced fertility rate in Kenya **(6marks)**

d) State five differences between Kenya's population and that of Sweden **(5marks)**

KCSE 2025 MOKASA MOCK EXAM

(MOI GIRLS-KABARAK-SACHO SERIES 2)

ENGLISH

101/1

PAPER 1

TIME: 2 HOURS

(Functional Skills)

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

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

b) *This paper consists of **THREE SECTIONS, 1, 2** and **3.***

c) *Answer **all** questions in this paper.*

d) *All your answers must be written in the spaces provided in this question paper.*

FOR EXAMINERS USE ONLY

SECTION	MAXIMUM SCORE	CANDIDATES SCORE
1	20	
2	10	
3	30	
TOTAL	**60**	

Q1 FUNCTIONAL WRITING

You are the manager at Utu Bora Suppliers Limited. You sadly learn that one of the employees in your company has passed on in a fatal car accident.

a) Write a memo to inform all the other employees of the news and remind them to contribute funds towards giving the deceased a good send off**.** **(12 marks)**

b) Write a condolence note to the spouse of the deceased**.** **(8 marks)**

Q2 CLOZE TEST

Read the passage below and fill in each blank space with the most appropriate word

The current flooding (1) _____ leaves us wondering whether to have a love-hate (2) _____ with rain in this country. (3)_____we all know that (4) _____ is really not the problem because when it's (5)_____ we passionately call (6) _____ it. But when it's in abundance we seem to be overwhelmed (7) _____ it!

Scenes of bridges being washed away, buildings (8)_____, people dying and cars sinking in the middle of known roads should awaken (9)_____ to the fact that we are at (10)_____ with nature.

(Adopted from The Standard, Wednesday, March 21, 2018)

Q3 ORAL SKILLS

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

Bury me in a free land

Make me a grave wherever you will,
In a lowly plain, or a lofty hill;
Make it among earth's humblest graves,
But not in a land where men are slaves.
I could not rest if around my grave
I heard the steps of a trembling slave;
His shadow above my silent tomb
Would make it a place of fearful gloom.
I could not rest if I heard the tread
Of a gang to the shambles led,
And the mother's shriek of wild despair
Rise like a curse on trembling air.

Questions

a) Identify and describe the rhyme scheme in the poem above. **(2 marks)**

……

……

b) Identify and illustrate **four** other ways in which rhythm has been achieved in the poem.**(4 mk**

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c) Giving reasons, identify **two** ways in which you would say the last line of the poem **(2 marks)**

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d) Mention two ways that would help you to know that the audience is fully participating during the recitation of the poem. **(2 marks)**

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e) Identify any **four** words from the poem above and for each, give another word that is pronounced in the same way but spelt differently. **(2 marks)**

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ii. Which intonation would you use to say each of the underlined words? **(4 marks)**

Malusu: Omenda, what time is the meeting <u>tomorrow?</u>

Omenda: (surprised) <u>Tomorrow!</u>

Malusu: You didn't <u>forget</u>, did <u>you</u>?

Omenda: I'm afraid I <u>did</u>.

iii. For each of the following letters, provide a word in which the letter is silent**.** **(3 marks)**

1) w -

2) b -

3) k –

iv. Classify the words below according to the sound of the's' letter. An example of each of the sound represented has been given. **(3 marks)**

keys resign books was bags master

/s/	/z/
Risk	rise

v. Read the following genre and answer the questions that follow.

"Two wives are like two potent pots of poison"

a) Identify the genre above. **(1 mark)**

……

b) State and explain the imagery in this genre. **(2 marks)**

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c) What kind of audience is this genre suitable for? Explain why. **(1 mark)**

……

……

vi. You have completed Form Four and the results have just been announced. You decide to call your class teacher to inquire about your performance. Explain any **four** features of telephone etiquette that will make your conversation effective. **(4 marks)**

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KCSE 2025 MOKASA MOCK EXAM

(MOI GIRLS-KABARAK-SACHO SERIES 2)

ENGLISH

101/2

PAPER 2

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education. (KCSE)

INSTRUCTIONS TO THE CANDIDATES

- *Write your name and admission number in the spaces above.*
- *Attempt all questions in this paper in English*
- *Check to ascertain that the paper has all questions.*

EXAMINER'S USE ONLY

Questions	Maximum Score	Candidate's Score
1	20	
2	25	
3	20	
4	15	
Total Score	**80**	

1. Read the following passage and answer the questions that follow. 20 Marks

The battle lines seem to be clearly drawn. On the one hand are those who insist that tradition medicine should be banned. On the other hand, are the ardent advocates of these ancient and time-hallowed modes of treatment and healing. Presumably, both these parties view traditional medicine in contrast to so-called modern, scientific, conventional medicine. Before taking hard and firm positions, however, it might be useful to objectively examine both sides of the argument.

The commonest argument advanced against traditional medicines is that it is unscientific. Its opponents argue that the repertoire of traditional healing practices, such as mere external diagnosis, and treatment with herbs, incisions and ablutions, are sheer guesswork. They say that it cannot compare with the researched, tested, documented and measured approaches of modern medicine. Rational as this argument might appear to be, however, it is basically an expression of prejudice. 'Scientific' does not necessarily mean only what comes out of European and other western laboratories. It is either ignorance or extreme arrogance to dismiss the accumulated knowledge of a society, **gleaned** from centuries of experience and experimentation, as unscientific. Indeed, one of the strongest references for traditional medicine is that it is time-tested and time-proven within the environment in which is practiced.

Another often repeated attack on traditional medicine is that it is superstitious. Its detectors point to practices such as divination, innovation, taboos and other observances recommend by traditional healers as signs of unjustifiable 'mumble jumbo' that has nothing to do with healing processes. While there might be some validity to this standpoint, it should be pointed out that this aspect of traditional medicine provides a dimension of treatment conspicuously absent from conventional western medicine. This is the psychological and spiritual aspect of healing. Traditional healers have always known what is just being discovered by modern medicine: the mental state of patients plays a **pivotal** role in their recovery potential. So, while one might disagree with some of the details of the spiritual recommendation of traditional medicine, it is not fair to dismiss them as mere superstition.

Closely related to the claims of superstition in traditional medicine is the accusation of quacker. It is often posited that traditional healers are con artists, out to prey on ignorant and ill-informed patients. This argument is also flawed. The truth of the matter is that there are quacks and crooks in every field of human endeavor, not least in conventional modern medicine. In its true contexts, traditional medicine subject its practitioners to initiation and commitment processes which might the Hippocratic Oath sound like a simple formality.

Another objection frequently raised against traditional medicine is that, in the radically changing modern environment, it is no longer readily available. Its opponents argue that the various herbs and other ingredients of traditional medicine are almost impossible to come by in present -day African villages, let alone cities and towns. This, it is pointed out, leads to practitioners resorting to unsatisfactory or even dangerous alternatives. While there might be a little grain of truth in this observation, it is not quite convincing. To begin with, there is no authoritative research to show that any of the ingredients of traditional medicine are extinct and inaccessible. More importantly, it can be argued that modern medicine is a lot less accessible than traditional

medicine. This is because in many African countries, there is shortage of doctors so that doctor-patient ratio is as acute as one doctor to thirty thousand people. In addition, modern medicine is very expensive, and there are often insurmountable problems of transport to hospital and health centers.

Finally, the point of safety is advocated as a reason for banning traditional medicine. The modernists claim that traditional medicine poses a danger to the population because of the inaccurate diagnoses and the unmeasured doses it prescribes for its patients. These traditional healers do not diagnose systematically or specify dosages for their patient. In any case, even with the meticulous modern medicine, cases of misdiagnosis and the administering of either wrong or excessive drugs are occasionally reported. This however, has not led to any calls for the banning of modern medicine.

In the final analysis, what should be advocated is not a banning of one form of medicine or the other. Rather, the validity and the shortcomings of each system should be appreciated. An ideal approach to treatment and healing might ultimately consist in improving and combining the best practices from each of the systems.

Questions

a. According to the passage, what are the characteristics of a scientific procedure? **(2 Marks)**

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b. Does the writer disapprove of the practice of divination and invocation as used in traditional medicine? Support your answer with evidence from the passage**.** **(2 Marks)**

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c. According to the passage, in what aspect is traditional medicine ahead of modern medicine?

(2 Mks)

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d. Using information from the passage, explain what Hippocratic Oath is**.** **(2 Marks)**

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e. What do you think could make herbs unavailable in the present-day society? **(2 Marks)**

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f. What according to the writer makes modern medicine less accessible**?** **(2 Marks)**

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g. In **not more than** 70 words, summarize the reasons given in support of the argument to abolish traditional medicine**.** **(5 Marks)**

ROUGH COPY

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FAIR COPY

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h. 'This is the psychology and spiritual aspect of healing.' Rewrite this sentence as a question.

(1 Mark)

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……

i. Explain the meaning of the following words as they are used in the passage: **(2 Marks)**

Gleaned

Pivotal

2. Read the excerpt below and then answer the questions that follow. (25 Marks)

Mossi:(Pacing about on the stage, turns to face the Principal and Nicole.) I am afraid we may not continue with this thing. Oh, I have already forgotten what you ate calling

Pirro:(Looking rather disappointed) but why, Your Worship? This is a blessing for out country.

Mossi: Don't you see it? It might turn out to be platform for misinformation, lies and witch hunt You see, last year someone spread a rumour that had died, Me just sent a text message on some social media and it spread like wild bush fire and do you I know almost died? During that time I accidently swallowed a whole toothpick!

Ramdaye: Oh, yes, I see the risk. They might spread another rumour on this platform! And you might swallow another toothpick! Yes, you will!

Basdeo: (To Mayor) The way I see it, that App will be a people's platform! And it will have **far-reaching implications** whether you launch it or not.
Mossi: (Casting a stern look at Mr. Basdeo) I need time to think about it. I will launch it at my own convenient time. (Turning to Nicole and the Principal) There are no two ways for now. **Halt** any activities regarding that thing until my office gives further guidance. (Ramdaye nods in approval. Other guests exchange knowing glances in silence)
Narine: Your Worship, the President of the Republic is scheduled to officially launch the App at the national level early next year when schools reopen. We presently have some ongoing activities in preparation for it. I doubt whether this process can be stopped.
Harvester:(Looking at the Principal and Nicole alternately) Is that so?
Mossi: (Looking at the Principal) The President?
Narine: Yes, Sir.
Ramdaye: Why have you **kept us in the dark** about it?
Narine: The Mayor's office has been duly informed, Sir.
Mossi; (Looking at Narine) Oh yes, I remember! But you never explained that kind of thing it was! No, you still have to stop it!
Pirro: I think that is beyond their powers, Your Worship.
Mossi; (Looking at Mr. Pirro) This thing we are talking about is a school project under their control! (Turning to face the principal) It is, therefore, within your powers to find a way around it. You are at the centre of it! Figure out a way, like writing to the Ministry of Education indicating that there are some fundamental errors in it that you need to attend get what I mean?
Nicole: I am afraid, Your Worship, the assessment of the innovations was done by senior officers at the Ministry of Education. Experienced software engineers Were involved. It passed all the tests, and no errors were found

QUESTIONS

a) Place this excerpt in its immediate context. **(4 marks)**

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b) Why is Mayor Mossi adamant to launch the App? **(2 marks)**

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c) From elsewhere in the play, what is the name of the App and how is it a people's platform**?** **(2mks)**

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……

d) Give reasons App is error proof. (**4 mks)**

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e) Think about it: (Rewrite using the question tag**.)** **(1mk)**

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f) Identify and explain any two stylistic devices used in the excerpt. **(4 mks)**

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g) From your knowledge of the text, identify four allegations against municipal leaders as uploaded on the APP. **(4mks)**

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h) Explain the meaning of the following expressions as used in the excerpt. **(4 marks)**

i.Far-reaching Implications ……

ii.Halt ……

iii.Kept us in the dark ……

iv.Figure out a way ……

3. Read the poem below and then answer the questions that follow. (20 Marks)

HE PROMISED ME HEAVEN.

He promised me heaven
As side by side walked, we down the aisle
As the chime of the wedding bell brightened the day
As sweet — sounding songs soothed our souls
As he held my hand and inserted this ring into my finger
I knew that my heaven had come
For then he promised me heaven.

As we sat close and cherished our moon of honey
As he whispered cream icing into my ears

Dramatically conjuring metaphor after metaphor
Humming lullaby after lullaby
How elated I felt for being so much elevated
For here he was, my guardian angel
To take me to heaven
For he promised me heaven

As one year later he slapped me again and again
I quickly forgave and forgot
For he was my idol
Who had promised me heaven
Even as the floodgate of blow after blow
Kick after kick
Opened from its cage of disaster

Defacing and eroding the beauty he so much praised
Converting me into a shell of torture
How patiently I clung to him
Anticipating the heaven he had promised me
Now as I lie in the hospital bed
Unable to rise from his violent battery
Waiting for the Angel of Death
I realize he kept his promise
For I am soon going to heaven
Because he promised me heaven.

Questions

a. Identify the persona**.** **(2 marks)**

……

……

b. Explain the main theme of this poem. **(2 marks)**

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……

c. Using the plot of the poem, explain the major changes in the subject matter**.** **(4 marks)**

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d. What is the speaker's mood in the last six lines of the poem**?** **(2 marks)**

……

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……

d. Give one character trait of the persona. **(2 marks)**

……

e. Explain the irony in the poem. **(2 marks)**

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……

f. Apart from irony, identify and illustrate one style used in the poem**.** **(2 marks)**

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g. What is the tone in stanzas 1 and 2 of this poem**?** **(2 marks)**

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h. Explain the meaning of the following lines:

a. "As he whispered cream icing into my ears." **(2 marks)**

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……

b. "For he was my idol." **(2 marks)**

……

……

……

4. Grammar

A. Fill in the blanks with appropriate complex preposition**.** **(3 Marks)**

i. Many people are ignorant ……. their human right.

ii. ……. protecting people from external attack, government needs to make the living conditions good.

iii. Many people have died in recent years ……... the declaration of human fights.

B. Rewrite the following sentences as instructed**.** **(2 Marks)**

a) I had a siesta having finished eating lunch. (Begin: Having…)

……

b) She shut her eyes and slept. The lecture was boring (rewrite the sentence to end with …slept)

……

……

C. Fill in the blanks with the correct form to the word given in the brackets. **(2 Marks)**

i. Kayleigh contested for the ……. seat. (governor)

ii. The ……. of the disease makes it difficult to diagnose. (rare)

D. Explain the difference in meaning between the following sentences. (**2 Marks)**

i. Omanyala, who won the Olympics, is my uncle.

……

……

ii. Omanyala who won the Olympics is my uncle.

……

……

E. Underline adjectival clauses in the following sentences. **(3 Marks)**

a) I met the woman who lives next to Gayle.

b) The house which was demolished last year has been rebuilt by well-wishers.

c) These are the books that the government supplied to public schools.

F. Use a phrasal verb to replace the underlined words. **(3 Marks)**

i. The school programme has been <u>altered</u>.

……

ii. I cannot <u>understand</u> what he is saying.

……

iii. The meeting was <u>cancelled</u> at the last minute.

……

THE END

KCSE 2025 MOKASA MOCK EXAM

(MOI GIRLS-KABARAK-SACHO SERIES 2)

ENGLISH

101/3

PAPER 3

TIME: 2½ HOURS

(Creative Composition and Essays Based on Set Texts)

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education. (KCSE)

Instructions to students

- *Write your **name, admission number** and **class** in the spaces provided*
- *Sign and write the date of the examination in the spaces provided*
- *Question **1** and **2** are **compulsory***
- *In question **3** choose the set text you have prepared on.*
- *None of your composition should exceed **450** words.*
- *Candidates must answer all questions in **English***

For examiner's use only

Question	Maximum Score	Student's Score	Examiner's initials
1	20		
2	20		
3	20		
Total	60		

*Answer **three** questions only*

1. Imaginative Composition (COMPULSORY) (20 marks)

Either

a) Write an interesting story beginning with;

I had not thought it was such a big problem until I got involved.....

Or

b) Write a composition supporting or opposing this statement .

"Both boys and girls have equal rights to their parent's property.

2. Compulsory text (20 marks)

Choices have consequences. Using illustrations from the novel Fathers of Nation, justify the statement.

3. Optional texts

a) **The Novel**: Kazuo Ishuguro, **an Artist of the Floating World. (20marks)**

Yearning for reputation and social status can lead someone down to a path of fear and obsession. Making reference from Kazuo Ishuguro's novel ***An Artist of the Floating World, discuss the validity of this statement.***

or

(**b) The Short Stories Godwin Shiundu, 'A silent Song and other stories' (20marks)**

Drawing illustrations from Meja Mwangi's "An incident in the park," Write an essay to discuss the problems of urbanization.

or

c) Parliament of Owls by Adipo Sidang' (20 marks)

Life has a way of paying back our actions ,whether good or bad Write an essay in support of this statement drawing your illustrations from Parliament of Owls by Adipo Sidang.

KCSE 2025 MOKASA MOCK EXAM

(MOI GIRLS-KABARAK-SACHO SERIES 2)

102/1

KISWAHILI

KARATASI YA 1-INSHA

MUDA: SAA 1¾

JINA……

SHULE…… SAHIHI……

NAMBARI YA USAJILI…… MKONDO……

Cheti cha Kuhitimu Kisomo cha Sekondari (KCSE)

MAAGIZO KWA MTAHINIWA:

1) *Andika jina lako, nambari ya mtihani na tarehe katika nafasi hapo juu.*
2) *Karatasi hii ina maswali manne.*
3) *Jibu maswali mawili pekee. Kila swali lina alama ishirini.*
4) *Swali la kwanza ni la lazima.*
5) *Chagua swali linginelolote moja kutoka yale matatu yaliyosalia.*
6) *Majibu yote yaandikwe katika karatasi ya majibu uliyopewa.*
7) *Kila insha isipungue maneno mia nne.*

Sehemu hii imehifadhiwa kwa matumizi ya mtahini pekee.

SWALI	1	2	3	4
UPEO	20	20	20	20
ALAMA				

UPEO	40
ALAMA ZA MTAHINIWA	

JUMLA

1. Wewe ni mkuu wa Baraza la Wanafunzi shuleni mwenu. Kumekuwa na visa vya wanafunzi kukiuka sheria za shule. Andika kumbukumbu za mkutano wa Baraza uliofanyika kujadili suala hili.

2. Jadili maafa ya mafuriko hapa nchini.

3. Andika insha inayoafiki methali**: Mti mkuu ukigwa, wana wa ndege huyumba.**

4. Andika insha itakayomalizika kwa maneno haya:
   … Niliyakumbuka maneno ya mwalimu mkuu, machozi yalinitoka njia mbilimbili. Hayawi hayawi huwa.

KCSE 2025 MOKASA MOCK EXAM

(MOI GIRLS-KABARAK-SACHO SERIES 2)

102/2

KISWAHILI

KARATASI YA 2-LUGHA

MUDA: SAA 2½

JINA……

SHULE…… SAHIHI……

NAMBARI YA USAJILI…… MKONDO……

Cheti cha Kuhitimu Kisomo cha Sekondari (KCSE)

MAAGIZO KWA MTAHINIWA:

- Karatasi hii ina maswali manne (ufahamu, ufupisho, lugha na isimu jamii).
- Jibu maswali yote kwenye nafasi zilizoachwa baada ya kila swali.

KWA MATUMIZI YA MTAHINI PEKEE.

	SWALI	**UPEO**	**ALAMA**
A	UFAHAMU	15	
B	UFUPISHO	15	
C	MATUMIZI YA LUGHA	40	
D	ISIMU JAMII	10	
	JUMLA	**80**	

For Marking Schemes Contact 0746 222 000 / 0742 999 000

SEHEMU A: UFAHAMU (Alama 15)

Soma kifungu kifuatacho kisha ujibu maswali uliyopewa.

Kasi ya kilio ilipungua,ikabaki kwikwi na machozi njia mbilimbli na katikati ya kushusha pumzi kazija alikuja juu.

"Ame…ame….u…ameuzwa,ameuzwa…"kilio kilipanda juu tena.Hilo lilitosha.picha yote ilikua wazi mbele ya fumu.Aliinuka kwa ghadhabu pale alipokuwa kainama na kupiga kiasi cha hatua tatu aliwakabili ng;,ombe,wake ambako sasa wamepata fursa nyingine ya kutimiza hasa yao.Walivamia gugu na kung,wafua viale vya mibua michanga na jani mwitu . Nao hawajijui hawajitambui,waliinamia bila kujali chungu wala tamu anayoiramba mwanadamu. Na ng,ombe ,neno hili lilirejesha mawazo ya fumu nyuma.malaika yalimsimama ghafla.ilikua kama mawazo ya kazija yalimfuma na mkondo wa damu hadi masikioni pake ambapo yalimgonga tena na tena,mfuluzio.

"Ameuzwa,ameuzwa…."

Sasa Fumu amepagaa kama sanamu.anaona hakijui anachokiona.anasikia,lakini yale maneno hayanasi kwenye nadhari yake.alijaribu kuivuta ile picha iliyokumbushwa na ng'ombe wake,lakini kwa sasa haikupata nafasi ya kuganda akilini mwake.

"Juzi usiku,"aliendelea kuwaza kazija huku akimtazama kwa ajabu fumu aliyekuwa kampa mgongo,"walikua na baba akimnasihi sana dada akubali kuolewa na fauz.nilimsikia baba akisema:"masika sisi tu maskini. mMimi ni nokoa tu wa mabwana hawa;huoni kwamba ndoa hii itafunguliwa milango ya heri?mimi sitakubali mwanangu aolewe na maskini maadamu imemwangukia nota ya jana."hapa kazija alisita.fumu alikuwa kasimama vilevile kama mgongo kazija,na huku nyuma kazija aliona manguko na mnyanyuko wa kiwiliwili cha fumu pale alipokuwa akivuta pumzi moto za hamasa.Kimya kilifuata.fumu hakutamka chochote na kazija akawa hana budi kuendelea .

"Naradua kuwa fukara baba",alijibu dada,huku machozi yanamwagika.sasa kazija aliupata mfululizo wa maneno yake.

Na hilo lililoingia ndani tena.Alikuwa na shekhe na bwana Hamoud,babake fauzi.watu watatu hawa walimlazimisha dada aweke dole cheti cha ndoa.dada hakujisalimisha.alipigana ,alibingirishana nao,kanga zilimvuka, aliwatafuna meno,aliwapararura makucha,lakini hatimaye walimweza,wakamtilisha dole kwa nguvu".

"Fumu aliuma meno.kilio chake kilikua mbali.chozi halikumtiririka ,na kama lingemtiririka,lingechimbuka kutokana na ghamidha.Naam,maneno yalimparamia.yakampenya masikioni,yakamkereketa moyoni na hatimaye yaliota pahala Fulani asipopajua.

"Na hayo si makubwa,kuliko yale yaliyopita jana siku kuingia ndani…."hapo kazija hakuweza kuendelea.kiliyo kilichimbuka upya.alilia kwa hamasa,uchungu na chuki.na katika kilio chake,alipasuka kwa kelele,"walimfunga dada miguu na mikono kama……kama….hakumaliza maneno yake.

MASWALI

a) Toa anwani mwafaka kwa habari hii. **(alama 2)**

……

b) Kwa nini kazija alikuwa analia? **(alama 2)**

……

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……

c) Toa sababu zilizompeleka babake masika kumwoza kwa fauzi. **(alama 3)**

……

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……

d) Kwa nini wahusika wafuatao walipandwa na hasira **(alama 2)**

a) Fumu

……

……

b) Baba

……

……

e) Ni kitendo kipi cha kidhalimu alichotendewa masika? **(alama 2)**

……

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……

f) Eleza maana ya msamiati ufuatao kama ilivyotumika katika taarifa. **(alama 4)**

a) Ameuzwa

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……..

b) Nokoa

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c) Naradua

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d) Ghamidha.

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SEHEMU B: UFUPISHO (alama 15)

MUHTASARI.

Soma kifungu hiki kasha ujibu maswali uliyopewa.

Wanasiasa hapa nchini Kenya wamechangia sana kwenye masaibu ya wakenya.wao wanajipatia mishahara mikubwa sana na kukataa kulipa kodi.matokeo ni kuwa wakenya wanatozwa kodi ya juu sana ili kugharamia mishahara hii.isitoshe,wanajipatia mikopo kama hiyo kwa gharama ya juu sana.huu ni ubinafsi.

Wengine wamehusika sana kwenye vita vya kikabila hasa katika mikoa ya kaskazini bonde la ufa na hata pande za pwani.matamshi wanayotoa huchochea hisia za kikabila ambazo hupeleka wananchi kupigana.wengine hudanganya wakati wa kupiga kura.wananunua kura na hata kuwahonga maafisa husika ili waongezwe kura. Jambo hili huzua mtafaruku na sintofahamu miongoni mwa wafuasi wao mara nyingi wanaishia kupigana.

Ni wawa hawa wanasiasa ambao mara tu baada ya kuchaguliwa wanahamia mjini Nairobi na kuwaacha wananchi na matatizo chungu nzima.pia vyama vingi wanavyoanzisha si vyama vya kitaifa bali vya kikabila . Taja chama kimoja tu cha kisisasa na nitakwambia nguvu zake zinaegemea kwa kabila gani.isitoshe,wengine wao wamehusika kwenye visa vya ufisadi na kuipwagua nchii hii kiasi kikubwa sana cha pesa. Wengine hata wana akauti huko ng'ambo ambazo zimehodhi mabilioni ya pesa.

Viongozi wengine wamemiliki mamlaka Fulani na hakuna mtu mwingine ambaye anaweza kuyapata. Mfano hapa ni viti vya maeneo bunge Fulani ambavyo vimekuwa ni vya mbari Fulani.

Tatizo hapa ni kuwa maendeleo hayawafikii wananchi maana wenye vyeo hawana haja ya kufanya kazi. Ya nini na mamlaka hayatoki kwao? Jambo ambalo linahuzunisha na kutia

kiwewe ni kuwa makundi mengi haramu yalianzishwa na wanasiasa kwa maslahi yao wenyewe. Makundi kama vile mungiki, kamjeshi, jeshi la mzee, chinkororo, sungusungu, SLDF, MRC, na mengineyo yaliasisiwa na wanasiasa ili kulinda maslahi yao.

Hata hivyo, kama wakenye tusinyamaze; kuna mengi ambayo tunaweza kufanya kwanza kabisa ni kuelewa kuwa kuna makabila mawili nchini Kenya. Matajiri na maskini. Kuhusu makabila arubaine na matatu, hayo ni ya wakati wa uchaguzi tu, wakishapata viti, wanasahau makabila yao na kuunda kabila moja kubwa; kabila la mwenyenacho.

Tunaweza kuamua kuwa hatuwapigii kura viongozi wasiofaa tuwatolee hukumu tena kali kama hakuna maendeleo basi hakuna kura. Isitoshe, wakati wowote wanapoona au kushuku ufisadi, wakenya wapige karusa. Hapa katiba mpya imetupiga jeki maana tume ya kupigana na ufisadi sasa imepewa nguvu maridhawa.

Pia takatae viongozi ambao wanarithishwa mamlaka, labda pale ambapo pana ishara ya maendeleo vinginevyo, kiongozi asipewe mamlaka eti kwa sababu ametoka katika ukoo Fulani.

MASWALI

1. Fupisha aya nne za mwanzo kwa maneno 55. **(alama 9)**

Matayarisho

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Jibu

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2. Fupisha aya tatu za mwisho kwa manene 55. **(alama 6)**

Matayarisho

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Jibu

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SEHEMU C:

MATUMIZI YA LUGHA (ALAMA 40)

a) i) Toa sifa za kimatamshi za kimadende. **(alama 2)**

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ii) Onyesha maneno yoyote mawili yaliyo na silabi funge na mawili yaliyo na mzizi huru.

(**alama 2)**

……

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……

iii) Taja ala zinazotumiwa katika sauti zituatazo. **(alama 1)**

a. /dh/……..

b. /m/……

b) Weka shada katika neno lifuatalo ili litoe maana tofauti. **(alama 1)**

Vilevile

……

……

c) Yakinisha katika nafsi ya pili. **(alama 1)**

Nisiposamehewa na mola sitapata amani mchana kutwa.

……

……

d) Tofautisha sentensi zifuatazo. **(alama2)**

Ningekuwa na pesa ningenunua nguo nzuri.

Ningalikuwa na pesa ningalinunua nguo nzuri.

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e) Andika sentensi ifuatayo kwa usemi wa taarifa. **(alama 2)**

“unaitwaje? Unaenda wapi? Unasoma shule gani?” askari alimuuliza mwanafunzi.

……

……

f) Eleza matumizi ya kiambishi ‘ka’ katika sentensi ifuatayo. **(alama 1)**

Onkwani alikuja akachukua kitabu akaondoka.

……

……

g) Onyesha aina za yambwa katika sentensi ifuatayo. **(alama 2)**

Mama alimkatia mgeni muwa kwa panga.

……

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h) Pigia mstarikirai kihusishi katika sentensi ifuatayo. **(alama 1)**

Metobo alikuwa miongoni mwa wanahewa.

……

……

i) Ainisha viambishi vya kitenzi kifuatacho. **(alama 2)**

VILILIWA.

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j) Changanua sentensi ifuatayo kwa kielelezo cha visanduku **(alama 3)**

Yeye alianguka ingawa alisoma kwa bidii

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k) Mtu hula kwa kutafuna lakini ndege hula kwa……. **(alama 1)**

l) Ni nini maana ya kusema "mkamia maji hayanywi na akiyanywa humsakama" **(alama 2)**

……

……

m) Zibadilishe sentensi zifuatazo kwa kufuata maagizo. **(alama 2)**

i.Wakati utakapopatwa na matatizo ndipo utakapotambua faida ya kuepuka uhalifu.(anza kwa: matatizo ndiyo……..)

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ii. Ugomvi na matukano hayana faida hata kidogo yafaa muyaache. (anza kwa: kugombana na ……..)

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n) Eleza matumizi ya 'ni' katika sentensi hii **(alama 3)**

Msiseme <u>ni</u> mapema; endeni mkamtafute vilabu<u>ni</u>.

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o) Tunga sentensi kwa umoja na kwa wingi ili kudhihirisha ngeli za nomino hizi. **(alama 4)**

i.Shibli

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ii. Manati

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p) Tunga sentensi zenye vivumishi vya ‘a’ unganifu ukitumia nomino hizi. **(alama 2)**

i.Kunata

……

……

ii. Dharura

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……

q) Iandike upya sentensi hii ukitoa kinyume cha maneno yaliyopigwa mstari. **(alama 2)**

Alikashifiwa kwa kuanguka mtihani.

……

……

……

Andika sentensi hii kwa wingi. **(alama 1)**

Ziwa kuu lilifurika na kuvunja ukingo wote

……

……

r) Tumia viwakilishi nafsi huru katika sentensi hizi. **(alama 1)**

i.Nyawira, June na Hamisi wameenda sokoni

……

……

ii. Nitaenda kumwona nyanya.

……

……

s) Yakinisha sentensi hii. **(alama 1)**

Mimi siendi kula chakula.

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SEHEMU D: ISIMU JAMII (alama 10)

Soma makala yafuatayo kasha ujibu maswali

Maajuzi “wasee” wa TLB walipiga kambi kwenye “rodi” ya kwetu. Walikuwa pamoja na “makarao” na “makadigo” wacha “wasakanye” “madinga” kusikia hivyo ilibidi “sosa” na “inga” letu likachania mbugani.

MASWALI

a. Hii ni rejista gani? **(alama 1)**

……

……

b. Eleza sifa zozote sita za sajili hii kwa kutolea mifano kutoka kwa kifungu hiki**. (alama 6)**

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c. Toa sababu tatu za kuzuka kwa sajili hiyo. **(alama 3)**

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KCSE 2025 MOKASA MOCK EXAM

(MOI GIRLS-KABARAK-SACHO SERIES 2)

102/3

KISWAHILI

KARATASI YA 3-FASIHI

MUDA: SAA 2½

JINA……

SHULE…… SAHIHI……

NAMBARI YA USAJILI…… MKONDO……

Cheti cha Kuhitimu Kisomo cha Sekondari (KCSE)

Maagizo

(i) *Andika jina lako, nambari ya usajili, mkondo, sahihi na tarehe katika nafasi ulizoachiwa hapo juu.*

(ii) *Jibu maswali manne pekee.*

(iii) *Swali la kwanza ni la lazima.*

(iv) *Maswali hayo mengine matatu yachaguliwe kutoka sehemu nne zilizobaki Riwaya, Tamthilia na Fasihi Simulizi.*

(v) *Usijibu maswali mawili kutoka sehemu moja.*

(vi) *Maswali yote ni sharti yaandikwe kwa lugha ya Kiswahili.*

Kwa matumizi ya mtahini pekee

SWALI	UPEO	ALAMA
1	20	
	20	
	20	
	20	
JUMLA	80	

1. SEHEMU YA A: USHAIRI

Soma shairi lifuatalo kisha ujibu maswali yanayofuata.

Amka amsha mwili,ukanyage ardhini
Amka pia akili,usingie mashakani
Amka kiwiliwili,usingizi ulaani
Amka fanya shughuli,nchi ipo hatarini

Amka wewe jasiri,hivi unalala nini?
Amka sio kuzuri,umetegemea nini?
Amka kuna dosari ,mchanga kitumbuani
Amka fanya shughuli,nchi ipo hatarini

Amka wewe jen Zi,amsha pia jirani
Amka kipya kizazi ,usikubali uhuni
Amka ufanye kazi,mkono wende kinywani
Amka fanya shughuli, nchi iko hatarini.

(Chotara Mswahili)

Maswali

a)Liweke shairi hili katika bahari tatu huku ukidhibitisha. **(alama 3)**

b)Eleza dhamira ya mshairi. **(alama 3)**

c)Eleza muundo wa shairi hili. **(alama 4)**

d)Eleza mbinu ambazo mshairi ametumia kukidhi mahitaji ya kiarudhi. **(alama 3)**

e)Tambua mbinu tatu za lugha alizotumia mshairi. **(alama 3)**

f)andika ubeti wa pili kwa lugha ya nathari. **(alama4)**

SEHEMU YA B: Tamhilia –Timothy M Arege:Bembea ya Maisha

Jibu swali la 2au la 3

2. Soma dondoo lifuatalo kisha ujibu maswali yanayofuata:

...lakini ndio tabia yenu wanawake.Miaka inaposonga kama hivi mnatuona kama... kama... kama... kama vile tambara bovu.

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

b) Eleza umuhimu wa msemaji katika kukuza ploti. **(alama 4)**

c)Tambua mbinu nne za kimtindo katika dondoo hili. **(alama 4)**

d)Kwa kutoa hoja nane kutoka kwa Tamthilia eleza ni vipi utamaduni ulivyothaminiwa katika jamii hii ya Bembea ya Maisha. **(alama 8)**

AU

3.Jadili nafasi ya mwanamke katika jamii ya Bembea ya Maisha. **(alama 20)**

SEHEMU YA C:Riwaya ya Nguu za Jadi-Prof Clara Momanyi

Jibu swali la 4 au la 5

4.Soma dondoo kisha ujibu maswali yanayofuta ;

Watategemewa na nani maishani? Hiki ndicho kizazi cha kesho au kizazi kilichopotea tayari?

a)Weka dondoo hili katika muktadha wake. **(alama 4)**

b)Tambua toni katika mazungumzo haya. **(alama 2)**

c)Onyesha ni vipi kizazi cha leo na cha kesho kilivyopotea. **(alama 12)**

AU

5.Fafanua ufaafu wa anwani ya ,'Nguu za Jadi'. **(alama 20)**

SEHEMU YA D: Diwani ya Mapambazuko ya Machweo na Hadithi zingine.

Jibu swali la 6 au la 7

6.Soma dondoo kisha ujibu maswali yanayofuata.

Akainama chini kwenye tendeguu moja la kitanda cha besera.Akachukua kibatari cha kiberiti ili awashe taa.Mimi,nikiwa mle mvunguni.sasa kwa hakika nilishamjua shetani wa mzimu ule ni nani.Kumbe hakuwa shetani wala Kipwerere!

a)Yaweke maneno haya katika muktadha wake. **(alama 4)**

b)Fafanua mbinu za kimtindo katika dondoo hili. **(alama 4)**

c)Onyesha umuhimu wa mandhari katika dondoo hili. **(alama 4)**

d)Wanakijiji waliuogopa mzimu wa Kipwerere kiasi cha kuuabudu na kutoufanyia mzaha. Thibitisha kauli hii. **(alama 8)**

AU

7. Kimyakimya analikariri;

Mteule nimechoka ,kila siku kusikiya,

Vyereje nchi hakika,visanga kupindukiya,

*Tunazidi filisika ,**walaji kujijaziya***

Msiba kujitakia, kweli hauna kiliyo.

a)Huu ni ubeti wa shairi katika hadithi"Msiba wa Kujitakia'.Eleza sababu ya mwandishi kutumia mbinu hii katika usimulizi. **(alama 6)**

b)Thibitisha ukweli wa kauli iliyopigiwa mstari katika dondoo. **(alama 8)**

c)Bainisha maudhui mbalimbali yanayojitokeza katika kifungu hiki. **(alama 6)**

SEHEMU YA E :FASIHI SIMULIZI

8). (a) Huku ukitoa mifano, eleza maana ya vitanza ndimi. **(alama 2)**

(b) Fafanua majukumu sita ya vitanza ndimi katika jamii. **(alama 6)**

(c) Eleza mbinu sita utakazotumia katika kukusanya na kuhifadhi habari kuhusu vitanza ndimi. **(alama 12)**

MWISHO

KCSE 2025 MOKASA MOCK EXAM

(MOI GIRLS-KABARAK-SACHO SERIES 2)

AGRICULTURE

443/1

PAPER 1

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education. (KCSE)

INSTRUCTIONS TO CANDIDATES

e) *Write your name, index number and class in the spaces provided above.*

f) *This paper consists of **THREE SECTIONS, A, B** and **C.***

g) *Answer all questions in sections **A** and **B** and two questions in section **C.***

h) *All your answers must be written in the spaces provided in this question paper.*

FOR EXAMINERS USE ONLY

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
A	1-18	30	
B	19-22	20	
C	23-25	20	
		20	
TOTAL		**90**	

SECTION A (30 MARKS)

Answer all questions in this section

1. Highlight two reasons for early land preparation. **(1 mk)**

……

……

2. Give **two** examples of Variable costs in the production of beans. **(1 ½ mks)**

……

……

3. What is the relationship between scarcity, preference and choice. **(2 mks)**

……

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……

4. State **two** conditions under which the opportunity cost is zero or does not exist. **(1 mk)**

……

……

5. State four importance of raising tomato seedlings in a nursery bed. **(2 mks)**

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6. Give four factors that affect the ensiling process. **(2 mks)**

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7. Give **two** examples of Books of Accounts. **(1 mk)**

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8. Give two reasons for imposing quarantine on imported planting materials. (1 mk)

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9. Give **three** factors that may influence the price of an agricultural commodity. **(1 $^{1}/_{2}$mks)**

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10. Name **three** examples of leguminous fodder crops. **(1 $^{1}/_{2}$Mks)**

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11. Give two factors that may determine the size of a pit for silage making. **(1mk)**

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12. Give three reasons for controlling weeds in pastures. **(1 ½Mks)**

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13. State **six** characteristics of a productive soil. **(3 mks)**

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14. A member of young farmers club was advised to apply a complete fertilizer 30:20:10 in a tomato plot measuring 10m long by 5m wide at the rate of 300kg per hectare

(a) State the percentage of P_20_5 in the complete fertilizer. **(1mk)**

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……

(b) Calculate the amount of fertilizer the member would require for the plot **(2 mks)**
(Show your working)

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15. State four ways of controlling bean anthracnose disease **(2mks)**

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16. Apart from training and extension services, state four other agricultural support services the Kenyan government provides to a maize farmer. **(2 mks)**

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17. List four sites on which agro forestry trees can be established on a farm **(2 mks)**

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18. Give two forms in which nitrogen is absorbed from the soil by plants **(1 mk)**

……

……

SECTION B: (20 MARKS)

Answer all questions in this section

19. Study the weeds illustrated below and answer the questions that follow



a) Identify the weeds shown **(4mks)**

A……..

B……..

C…….....

D……..

b) Give one economic importance of each one of the weeds **(2mks)**

A- ……..

B- ……..

c) State the advantage of weed C on the farm **(1 mk)**

……

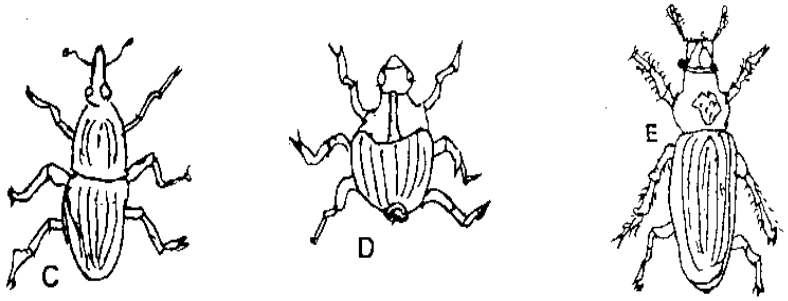
……

d) Why is weed D difficult to control **(1mk)**

……

……

20. The diagrams below represent some pests. Study them and answer the questions that follow.



i) Identify the pest labeled C, D and E **(3 mks)**

C-……

D- ……..

E- ……..

ii) Give one reason why pest E is not controlled chemically **(1 mk)**

……

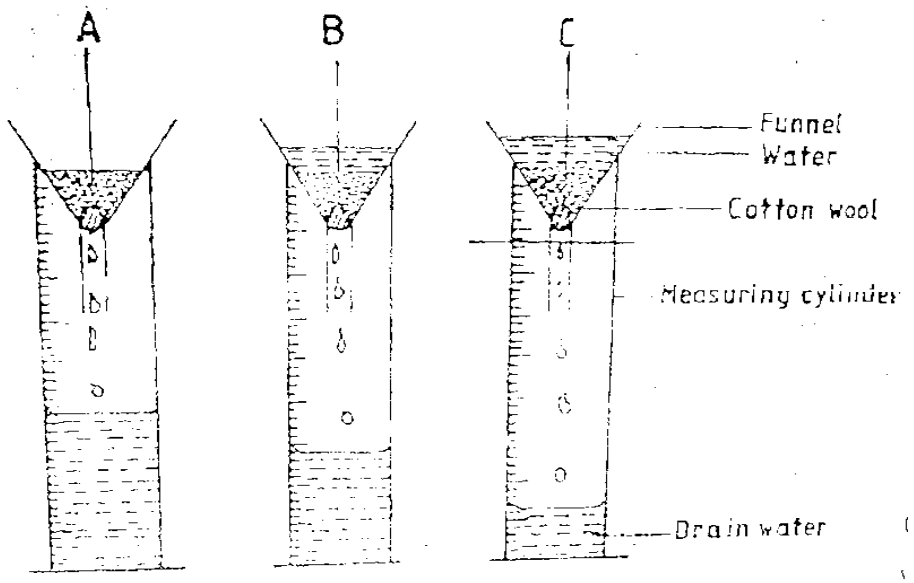
……

iii) State two non-chemical methods of controlling pest C and D **(1 mk)**

……

……

21. The diagram below illustrates an experiment on soil. Study it carefully and answer the questions that follow.



a) State the aim of the experiment **(1 mk)**

……

b) If the volume of water illustrated in the measuring cylinder was observed after one hour, identify the soil sample labeled A and B

i) Soil sample A **(1 mk)**

……

……

ii) Soil sample B **(1 mk)**

……

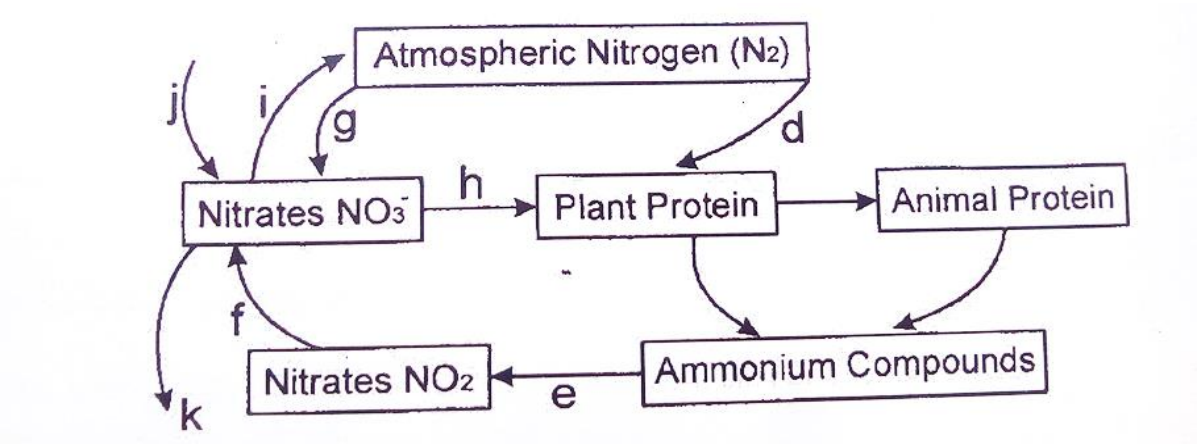
……

c) State one way in which the soil structure of the sample labeled C above can be improved **(1 mk)**

……

……

22. Study the illustration below which illustrates a series of changes.



a) Identify the process **(1 mk)**

……

Name the organism involved in the series represented by d **(1 mk)**

D- ……

b) Identify the processes represented by h and i **(1mks)**

H- …….

I- ……..

SECTION C: (40MARKS)

Answer any two questions from this section

23 a).Describe the field production of dry beans under the following sub headings

i). Planting **(5mks)**

ii) Weed control **(2mks)**

iii) Harvesting **(5mks)**

b) Outline **four** problems associated with manure use in agricultural production **(4 mks)**

c) Give **four** characteristics of plants suitable for green manure **(4 mks)**

24a) Explain **ten** factors that can encourage soil erosion. **(10marks)**

b) Describe the seven management practices that should be carried out on a vegetable nursery after sowing seeds until the seedlings are ready for transplanting. **(7 marks)**

c) Describe the precautions that should be observed during the harvesting of pyrethrum**. (3 mks)**

25 a). Explain eight factors that should be considered when planning to set up a farm business.

(8 mks)

b) The information below was extracted from the financial valuation of Uwezo Micro-farm at the end of the year 2017.

ITEM	**VALUE IN KSHS**
Tools in store…….	10,000
Cattle feed in store ……	4,000
Office equipment …….	1,400
Calves ……..	5,000
Machinery ……	4,000
Land ……	260,000
Seven Mature sheep……	7,000
Buildings ……	126,000
Maize in store ……	19,000
Daily cattle ……	55,000

On the same date, the farm had Kshs 50000 in the bank and owed KFS kshs 4500 for fertilizers and 5000 to Unga ltd for feeds delivered and 12000 for laborers' wages. KCC owed the farm 5000 for fresh milk delivered.

Draw up a balance sheet for Uwezo Micro farm as at 31st December 2017. **(12marks)**

KCSE 2025 MOKASA MOCK EXAM

(MOI GIRLS-KABARAK-SACHO SERIES 2)

AGRICULTURE

443/2

PAPER 2

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education. (KCSE)

INSTRUCTIONS TO CANDIDATES

(a) Write your name and Index Number in the spaces provided above.

(b) Sign and write the date of the examinations in the spaces provided above.

(c) This paper has three sections: A, B, and C. Answer all questions in section A and B and any two questions in section.

(d) Write your answers in the spaces provided on the question paper.

FOR EXAMINER'S USE ONLY

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
A	1 – 16	30	
B	17 – 20	20	
C	21 - 23	40	
TOTAL SCORE		90	

SECTION A: (30 MARKS)

Answer all questions in this section in the spaces provided.

1. State four external predisposing factors of livestock diseases. **(2 mks)**

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……

……

2. List three importance of flushing in sheep management. **(1 ½ mks)**

……

……

……

3. Give three reasons why honey harvesting is discouraged at night. **(1 ½ mks)**

……

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4. State two distinguishing external characteristics of California white rabbit. **(2 mks)**

……

……

5. Name two maintenance practices of an ox-cart. **(1 mk)**

……

……

6. Name three types of calf pens that can be constructed on a farm. **(1 ½ mks)**

……

……

……

7. Name the set of tools used for the following farm operations.

(a) Controlling bloat. **(1 mk)**

……

……

(b) Restraining an animal during an agricultural show exhibition. **(1 mk)**

……

……

8. Give three control measures of fleas in a flock of layers. **(1 ½ mks)**

……

……

……

9. Give four reasons for raddling in sheep management. **(2 mks)**

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10. State four roles played by the engine oil in a tractor. **(2 mks)**

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……

11. List four components of power transmission system in a tractor. **(2 mks)**

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……

……

……

12. Identify the following breeds of livestock:

(i) A pig with dished face, erect ears and white colour **(1k mk)**

……..

(ii) A beef breed of cattle which is cream in colour and the male weighs upto 1200kg

……..

(iii) A breed of goat usually with long hair **(1 mk)**

……..

(iv) A wool sheep with long curly wool usually covers its face **(1 mk)**

……..

13. State four reasons for handling livestock in the farm. **(2 mks)**

……

……

……

……

14. Give two notifiable diseases in cattle. **(1 mk)**

……

……

15. Name five milking materials and equipments required during milking of a cow.(**2 ½ mks)**

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……

……

……

……

16. State three disadvantages of natural methods of calf rearing. **(1 ½ mks)**

……

……

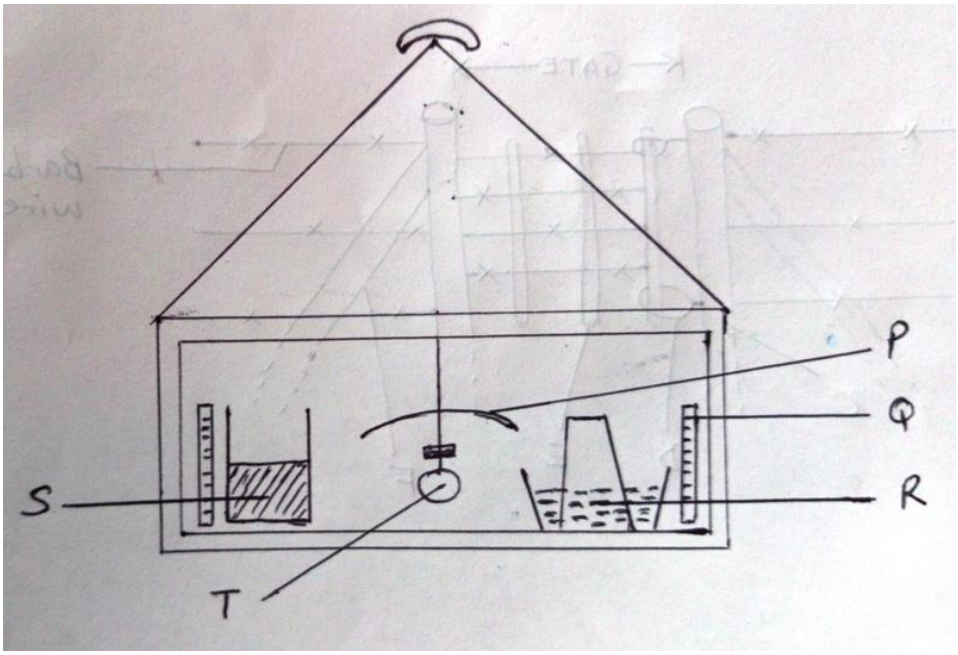
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……

SECTION B: (20 MARKS)

Answer all the questions in this section in the spaces provided.

17. Below is a diagram showing a cross-section of a chicken brooder. Use it to answer the questions that follow.



(a) Identify the parts labeled P,Q,R,S and T. **(2 ½ mks)**

P ……

Q ……..

R……..

S……..

T……..

(b) What is the purpose of the part labeled Q? **(1 mk)**

……

……

(c) State two ways by which temperature in the brooder may be raised. **(2 mks)**

……

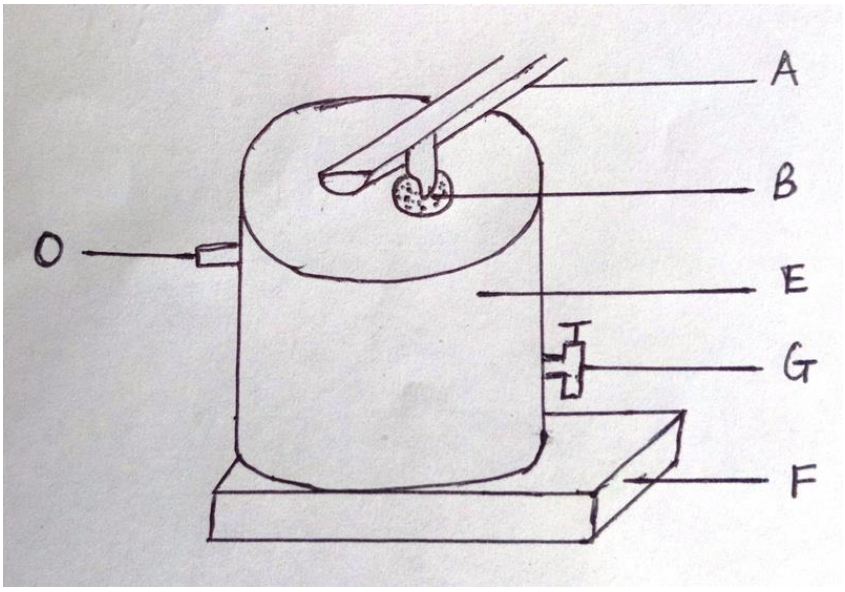
……

……

(d) Name any material that would be suitable for use as litter in the brooder. **(½ mks)**

……

18. The diagram below represents parts of a water harvesting structure. Study it carefully and answer the questions that follow.



(a) Name the parts labeled A and O on the diagram. **(2 mks)**

A ……..

O ……..

(b) Identify the method of water harvesting illustrated. **(1 mk)**

……

(c) State the use of the part labeled B. **(1 mk)**

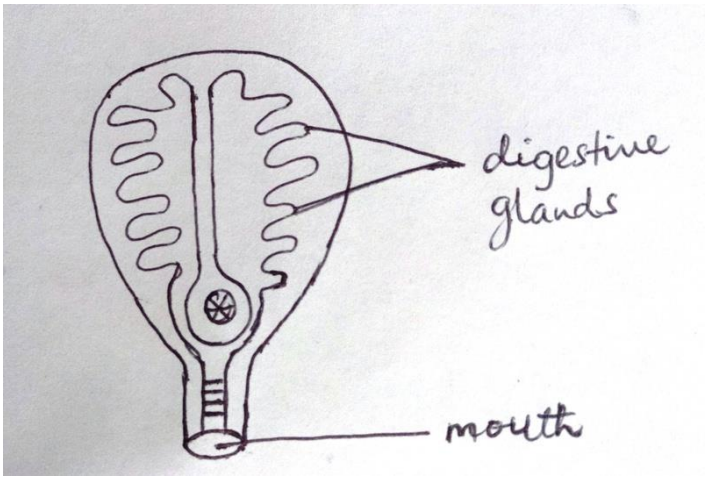
……

(d) State two maintenance practices needed for part labeled E. **(2 mks)**

……

……

19. The diagram below shows a livestock parasite. Study it and answer the questions that follow.



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

……

(b) Name the final host of the parasite and the part of the body of the host where it is found.

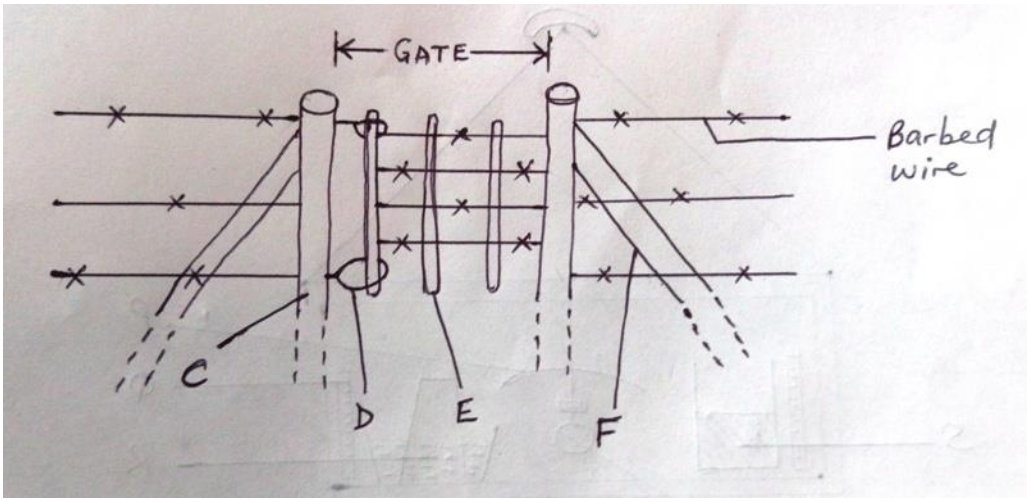
(2 mks)

……

(c) State the intermediate host of the parasite. **(1 mk)**

……

20. The diagram below shows a type of a farm gate. Study the diagram and answer the questions that follow.



(a) Identify the type of gate shown. **(1 mk)**

……

(b) Name the parts labeled C, D and E. **(3 mks)**

C …….

D ……

E …….

(c) State one function of the part labeled F. **(1 mk)**

……

……

SECTION C: (40 MARKS)

Answer any two questions from this section on the answer sheets provided.

21. (a) Outline the procedure of training a calf for bucket feeding. **(5 mks)**

(b) Highlight the advantages of artificial incubation. **(5 mks)**

(c) Explain various practices used to prevent livestock diseases. **(10 mks)**

22. (a) Explain the various uses of livestock in the farm. **(10 mks)**

(b) Identify and explain the various conditions that pre-dispose livestock to diseases in the farm. **(10 mks)**

23. (a) Explain the limitations of tractor power in the farm. **(6 mks)**

(b) Explain the operational differences between a disc plough and a mouldboard plough. **(8 mks)**

(c) Discuss the advantages of four stroke engines on the farm. **(6 mks)**

KCSE 2025 MOKASA MOCK EXAM

(MOI GIRLS-KABARAK-SACHO SERIES 2)

BUSINESS STUDIES

565/1

PAPER 1

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education. (KCSE)

INTRODUCTION TO CANDIDATES

i) Write your name and index no in the spaces provided above.

ii) Answer all the questions in the spaces provided below each question.

iii) Write your answers in English

For examiner's use only

Question	1	2	3	4	5	6	7	8	9	10	11	12
Marks												

Question	13	14	15	16	17	18	19	20	21	22	23	24
Marks												

1. Give four disadvantages of a long chain of distribution of goods to a buyer **(4 marks)**

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……

2. The following balances were extracted from Mwangaza traders books of accounts.

	Shs.		
Opening stock	25,000		
Closing stock	35,000		
Purchases	190,000	Mark - up	20%

Calculate:

i)Cost of **sales** **(1mark)**

ii)Gross profit **(1 mark)**

iii)**Sales** **(1 mark)**

iv)Rate of stock turnover (ROSTO) **(1 mark)**

3. For each of the following statements, give the type of unemployment described (4 marks)

Statements / Description	**Type of unemployment**
a) Arise due to mismatch of skills and labour, market demands.	
b) A person has absolutely nothing to do	
c) Arises when there is a change in methods of production	
d)Arises when the number of people exceeds those that are required	

4. List **four** documents prepared by the buyer in home trade**.** **(4 marks)**

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5. Highlight **four** merits of direct tax as a source of revenue to the government **(4 marks)**

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6. Outline **four** ways the economic environment influence business activities **(4 marks)**

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7. Highlight four roles of advertising agencies in product promotion **(4 marks)**

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8. Highlight **four** ways in which the government of Kenya promotes entrepreneurial development **(4mks)**

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9. State the name of the source document used to record the following transactions **(4mks)**

	Transaction	**Source Document**
a)	Received goods returned by a buyer who bought them earlier on credit	
b)	Making of payment to a casual workers at the end of the week	
c)	Bought goods for sale from Gilanis Supermarkets on credit	
d)	A customer, Adhiambo, send a cheque for goods she bought earlier on credit	

10. Kivuli Youth Group wants to start a warehouse service business in their ward. State any **four** essential factors they should consider for their warehouse to function effectively**.(4mks)**

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11. National income from expenditure approach is calculated as follows:

NI = C + I + G + (X-M)

State the meaning of the following: **(4mks)**

(i) C……

(ii) I: ……

(iii) G ……..…….

(iv) X-M: ……..……..……

12. With suitable examples, explain the meaning of the following terms as used in demand.

(a) Joint demand **(2 marks)**

……

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(b) Derived demand. **(2 marks)**

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13. Nyeri county has lately been experiencing a decline in the birth rate, State four reasons for this decline. **(4 marks)**

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14. Give four basic characteristics of a business idea. **(4mks)**

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15. Outline **four** documents needed to start a company. **(4mks)**

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16. Identify four barriers to international trade that are imposed by governments**. (4mks)**

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17. In the table below classify the accounts as personal, nominal, real or private**. (4mks)**

Account	***Account type***
Machinery	…….
Kamau(creditor)	…….
Electricity bill	…….
Rent income	…….

18. Outline four reasons why shopping malls have become popular in Kenya. **(4 marks)**

……

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19. On 1st July 2012, Meru traders had the following balances:

	shs.
Computer	45,000
Capital	136,000
Creditors	20,000
Furniture	80,000
Bank	26,000
Cash	5,000

The following transactions took place on 2nd July 2012:

a. purchased a motor van for sh.400,000 on credit from Shah motors

b. paid a creditor sh. 13,000 by cheque

c. bought furniture for sh.8000 by cheque

Prepare a balance sheet as at 2nd July 2012 after the above transactions had taken place.**(4 mrks)**

20. State four factors that hinder economic development in most African countries**. (4marks)**

……

……

……

……

21. Highlight four reasons that may necessitate insurance companies to re-insurance. **(4mks)**

a) ……

b) ……

c) ……

d) ……

22. The following table shows the price of 2kg of maize flour 1 loaf of bread, and 1 packet of milk in 2013 and 2014 with their weights.

Items	Prices		Weights
	2013	2014	
Flour	80	85	2
Bread	50	60	1
Milk	40	60	3

***Required**:*

Calculate Consumer Price Index (C.P.I) for the year 2014 for the basket of goods composed of the three items using the

Weighted Average Method and determine level of inflation. **(4 Marks)**

23. State four conditions that must be met for an insurance contract to be valid. **(4 marks)**

……

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……

24. The following balances were extracted from the books Lion Traders as at 30th June 2012.

	Shs.
Sales	14,000
Carriage out	6,000
Discount allowed	11,000
Discount received	5,000
Returns in	12,000
Rent income	3,000
Purchases	2,000
Bank	150,000
Capital	159,000

From the above information, prepare a trial balance**.** **(4 marks)**

25. State four characteristics of basic human wants. **(4 marks)**

……

……

……

……

KCSE 2025 MOKASA MOCK EXAM

(MOI GIRLS-KABARAK-SACHO SERIES 2)

BUSINESS STUDIES

565/2

PAPER 2

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education. (KCSE)

INSTRUCTIONS TO CANDIDATES

- *Write your **name** and **index number** on the answer booklet provided.*
- *This paper consists of **six** questions.*
- *Answer **any five** questions.*
- *All questions carry equal marks.*

For Examiners Use Only

QUESTION	1	2	3	4	5	6	**TOTAL**
MARKS							

*Answer **any five** questions.*

1. a)Discuss any five economic importance of the recently discovered oil to the Kenya Economy. **(10marks)**

b) Describe five monetary tools used by the government to control inflation. **(10mks**

2a) Explain four reasons why Boda Boda transport has become a popular means of transport in Kenya. **(8 marks)**

b) The following TRIAL balance relates to HM Traders Ltd as at 31st December 2011.

HM Traders Ltd
TRIAL Balance
As 31st December 2011

Particulars	Dr shs	Cr shs
Capital		283,200
Drawings	8000	
Cash at Bank	30,000	
Machinery	360,000	
Debtors	42 700	
Creditors		20 000
Stock (1.1.2011)	40000	
Sales		570 000
Purchases	325 000	
Returns	10000	15000
Carriage inwards	4000	
Carriage outwards	5000	
Rent	18000	
Salaries and wages	40000	
Discounts Received		9000
General expenses.	14,500	
	897 200	897 200

Stock as at 31/12/2011 was valued at shs. 35,000

Required:

i) Prepare a trading, profit and loss account for the year ended 31st December, 2011 **(8 marks)**

ii) Draw a balance sheet as at 31st December, 2011. **(4 marks**

3(a) Explain five guidelines to proper use of county funds. **(10 marks)**

(b) The following table represents the supply of potatoes for 3 months.

Year 2010	Price Per Kg	Quantity Supplied (Kgs)
January	100	100,000
February	100	90,000
March	100	80,000

Explain five reasons to account for the change in quantity supplied of potatoes in the market.

(10 marks)

4 a)Mr. Yego, a tea farmer in Kericho, wants to join Kiptigis farmers' co-operative society. Explain five benefits that would accrue to him as a result of being a member of the society. **(10marks)**

b) On 1st September 2006,Mau Enterprises had the following balance.

Cash shs. 55,000

Bank shs. 250,000 (CR)

During the month, the following transaction took place

September 2nd: Cash Sales Banked shs. 535,260

3rd: Bought Ribbons in cash shs.4, 500

8th: Paid Wangila ,a creditor shs. 94,000 by cheque in full settlement of his Account after deducting 6% cash discount

12th: Received a cheque for shs.58, 800 from Wetu after allowing her cashdiscount of shs.1, 200

15th: Paid salaries shs.34, 000 in cash

25th: Withdrew shs. 50,000 from bank for office use

28th: Anyango a debtor, paid her account of shs.75.000 by cheque less 10% cash discount.

30th: Deposits all the cash into Bank except shs. 13,700

Required: Prepare a **three** column cash Book as at 30th September 2006 **(10mrks)**

5)a) Explain **five** measures that Kenya can take to solve the problem of unemployment.

(10 marks)

b) Kenya is looking forward to the realization of vision 2030, explain five obstacles that may hinder its implementation **(10marks)**

6(a)Draw five differences between perfect competition and monopolistic competition **(10mks**

(b) Explain five negative implications of production activities on the environment **(10mks)**

KCSE 2025 MOKASA MOCK EXAM

(MOI GIRLS-KABARAK-SACHO SERIES 2)

BIOLOGY

231/1

PAPER 1 (THEORY)

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education. (KCSE)

INSTRUCTIONS TO CANDIDATES

- Write your **name, Admission number and name of your school** in the spaces provided above
- **Sign** and write the **date** of examination in the spaces provided.
- Answer **all** the questions in the spaces provided.

For Examiners Use Only

Question	Maximum score	Candidate's score
1- 29	80	

1.(a) Differentiate between gaseous exchange and ventilation. **(2 marks)**

……

……

……

……

(b) Name the respiratory sites of the following:

(i) Fish **(1 mark)**

……

(ii) Insects **(1 mark)**

……

2. A portion of a nucleic acid is shown below;

```
-S-P-S-P-S-P-S-P-S-P- S -
 |   |   |   |   |    |
 C   C   G   U   G    C
```

a) Name the nucleic acid to which the portion belongs. Give a reason. **(2 marks)**

……

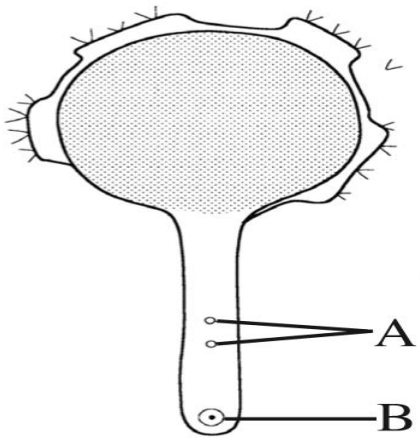
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b) Write down the sequence of bases of a complimentary strand to the one above. **(1 mark)**

……

……

3. The diagram below illustrates a growing pollen tube



a) Name the part labeled B **(1mark)**

……

b) Explain the role of parts labeled A **(2marks)**

……

……

……

4. **Name two** components of Mammalian blood that play a role in blood clotting. **(2mks)**

……

……

5. **(a)** Name the parts of a mammalian ear which carry out the following functions.

i)Balance and posture. **(l mark)**

……

……

ii) Hearing. **(l mark)**

……

……

(b) State the importance of presence of glands in auditory canal. **(l mark)**

……

……

6. **(a)** State the function of co-factors in cell metabolism. **(1mark)**

……

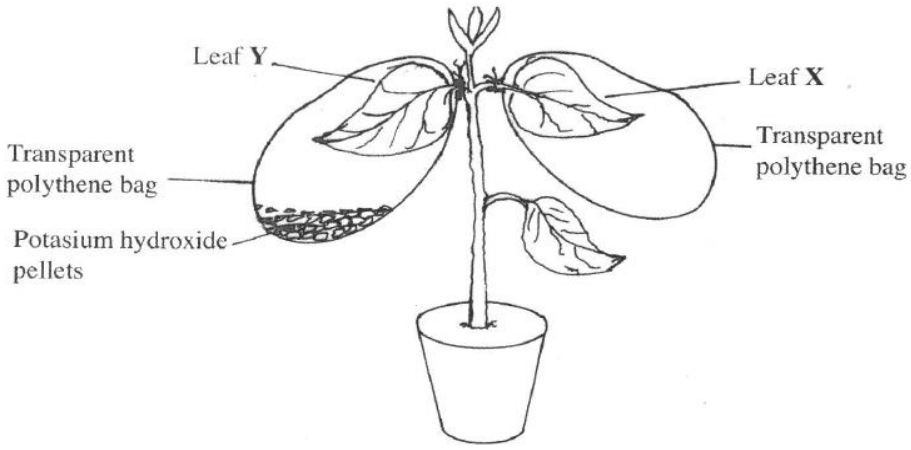
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(b) Give one example of a metallic co-factor. **(l mark)**

……

……

7. **A** potted plant was kept in the dark for 48 hours. Two leaves **X** and **Y** were treated as shown in the diagram below.



The experimental set-up was kept in sunlight for 6 hours after which starch test was carried out on the two leaves.

a) Give a reason why potassium hydroxide pellets were put in a transparent polythene bag with leave **Y** **(1mark)**

……

……

b) What were the results of the starch test on leaves X and Y? **(2marks)**

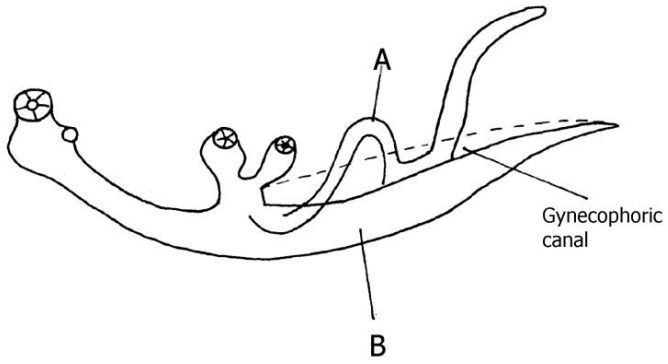
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8. The diagram below shows two organisms of the same species **(2marks)**



a) State the sex of organism A and B. **(2marks)**

……

……

b) Name the disease caused by the above organism. **(1mark)**

……

9. Identify the physiological process involved in the following

a) Feeding in Venus fly trap (insectivorous plant) **(1mark)**

……

b) Absorption of mineral salts by plant roots. **(1mark)**

……

10. a) Explain how the following parts of a mammalian reproductive system are adapted to their functions. **(2 marks)**

i) Testis

……

……

ii) Uterus

……

……

b) Explain why removal of the ovary after four months of pregnancy does not terminate pregnancy. **(2 marks)**

……

……

……

……

11. State the role of the following hormones in homeostasis

i) Antidiuratic hormone (vasopressin) **(1 mark)**

……

……

ii) Aldosterone hormone **(1 mark)**

……

……

12. Name parts of the brain which control

(a) Involuntary activities e.g breathing **(1mark)**

……

(b) Control voluntary body movement **(1mark)**

……

13. During a strenuous exercise, the chemical process represented by the equation below takes place in human muscles

$$C_6H_{12}O_6 \longrightarrow 2CH_3CH(OH)COOH + 150KJ$$

(Glucose) (substance x) (energy)

(a) What is the name of this process **(1mark)**

……

(b) Name the substance X **(1mark)**

……

(c) What happens to the muscle if x accumulates to critical level **(1mark)**

……

……

14. (a) Define the term 'parthenocarpy'. **(1mark)**

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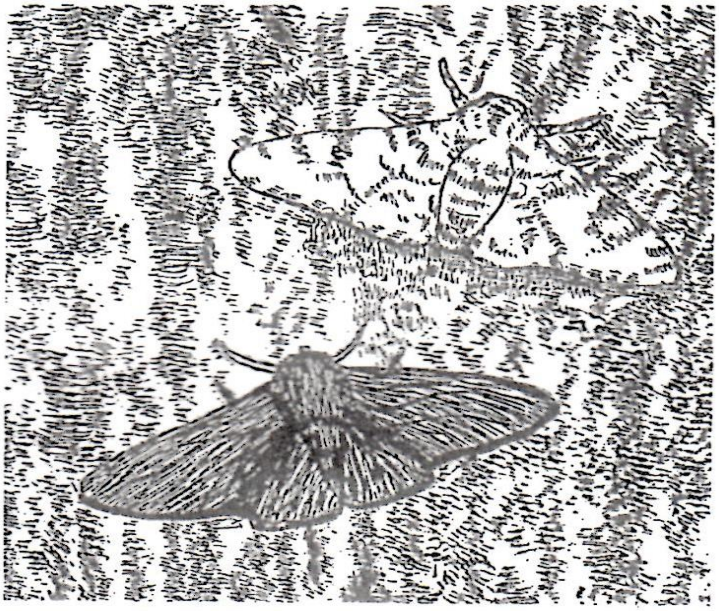
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(b) Name **two** plant growth hormones that promote parthenocarpy. **(2marks)**

……

……

15. The photograph below are two varieties of peppered moth *biston betularia* resting on the bark of a tree.



Explain using the photograph how natural selection will determine the survival of each variety.

(3marks)

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……

16. State the importance of the following features of mammalian lungs.

(a) Spongy and elastic **(1 mark)**

……

……

……

(b) Pleural fluid **(1 mark)**

……

……

……

17. Identify the use of the following apparatus **(3marks)**

(i) Bait trap

……

(ii) Specimen bottle

……

(iii) Pitfall trap

……

18. State **two** feature common in mammals and bird **(2 marks)**

……

……

19. The lungs and ileum are adapted for absorption. State **three** features they have in common which facilitate absorption. **3marks)**

……

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……

20. (a) Why is blood group AB described as universal recipient? **(2mks)**

……

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……

(b) Suggest why blood does not clot in blood vessels of a healthy person. **(l mark)**

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21. (a) State why the placenta is considered as an endocrine gland. **(l mark)**

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(b) Describe how the embryo in human is protected during pregnancy. **(2marks)**

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22. State three effects of dumping untreated sewage into a river. **(3marks)**

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……

23. (a) State **three** functions of Obturator Foramen in the pelvic girdle in a mammal. **(3marks)**

……

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……

……

(b) What is a

(i) Tendon? **(1mark)**

……

……

(ii) Ligament? **(1 mark)**

……

……

24. (a) Name the plant excretory product which is used for:

(i). Treatment of malaria. **(l mark)**

……

(ii)As a beverage. **(l mark)**

……

(b)Explain why lactic acid is not considered as an excretory product though it's toxic to tissues.

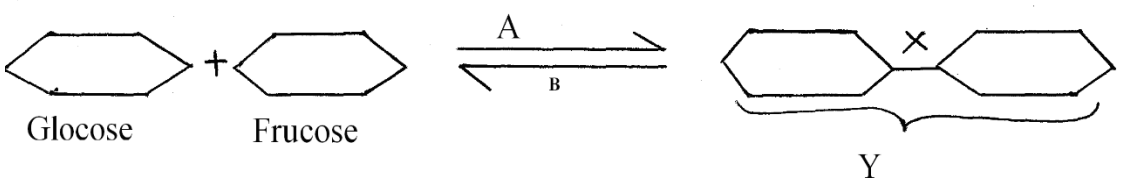
(l mark)

……

……

……

25. Study the reaction below and answer the questions that follow.



i) State the biological process that takes place represented by A **(1mark)**

……

ii) What Biological process is represented by B **(1mark)**

……

iii) State the product Y **(1mark)**

……

iv) State the bond represented by X **1mark)**

……

26. Give **three** components of a simple reflex arc. **(3 marks)**

……

……

……

KCSE 2025 MOKASA MOCK EXAM

(MOI GIRLS-KABARAK-SACHO SERIES 2)

BIOLOGY

231/2

PAPER 2 (THEORY)

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education. (KCSE)

INSTRUCTIONS TO CANDIDATES

- Write your name and Index Number in the spaces provided above.
- This paper consists of **two** sections. Section **A** and section **B.**
- Answer **ALL** questions in section **A** in the spaces provided. In section **B** answer question **6** (compulsory) and either question **7** or **8** in the spaces provided after question 8

For Examiners use only.

Section	Question	Maximum score	Candidates score
A	1	8	
	2	8	
	3	8	
	4	8	
	5	8	
B	6	20	
	7	20	
	8	20	
	Total score	80	

1. A Pure – line pea plant with green pods was crossed with a pure – line plant with yellow pods. All F_1 plants had green pods. The F_1 plants were selfed and out of 1160 F_2 plants, 856 had green pods and 304 had yellow pods.

a) i)Identify the dominant and the recessive genes. **(1mark)**

……

……

ii)Using letter ***G*** to represent dominant gene and ***g*** to represent recessive gene, work out the phenotypic ratio of the F_2 generation. **(3marks)**

b) Showing your working, state the number of plants with; **(3marks)**

i) Recessive genes;

……

……

ii) Dominant genes;

……

……

iii) Heterozygous genes;

……

……

c) i) What is sickle cell Anemia? **(1mark)**

……

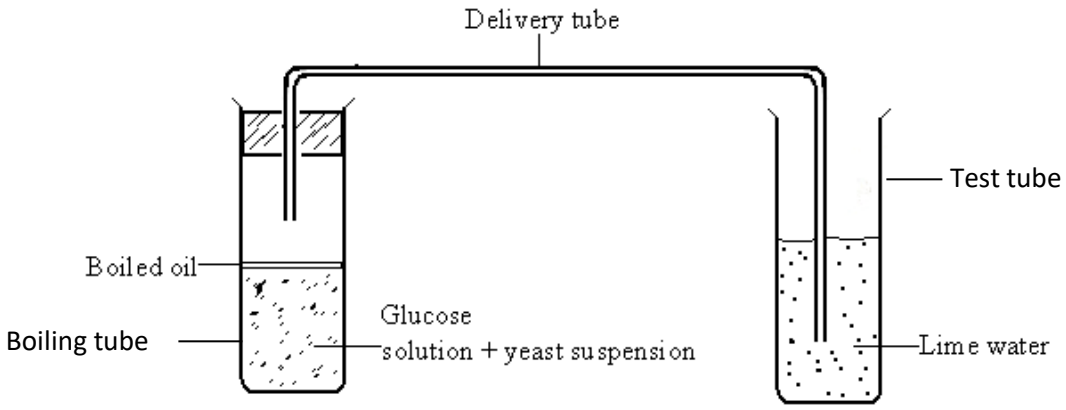
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ii) State one problem faced by people suffering from sickle cell anemia? **(1mark)**

……

……

2. (a) Examine the diagram which shows a set used to demonstrate a certain process.



(i) State the aim of the experiment. **(1 mark)**

……

……

(ii) Why was it necessary to boil the glucose solution before adding the yeast suspension?**(1 mark)**

……

……

(iii) Why was it necessary to cool the glucose before adding the yeast suspension? **(1mark)**

……

……

(iv) Why was the oil layer added? **(1 mark)**

……

……

(v) Write down the equation for the chemical reaction that took place in the boiling tube(**2 marks)**

……

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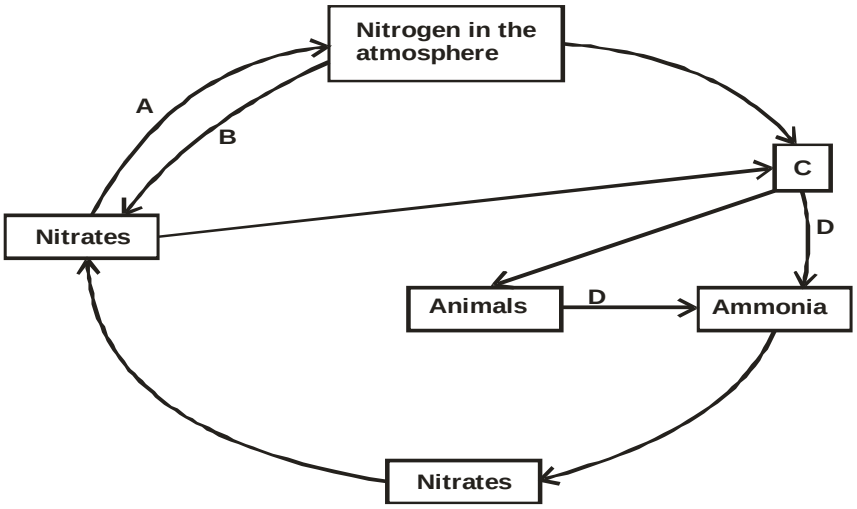
(vi) State the observations made in the test tube after 45 minutes **(2 marks)**

……

……

……

3. The diagram below represents a simplified nitrogen cycle.



a) Name the group of bacteria represented by: **(2 marks)**

A……

B……

i)Name the group of organisms represented by C. (**1 mark)**

……

ii) Give the reasons for your answer in b (i) above. **(2 marks)**

……

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……

b i) Define the term nitrification. **(1 mark)**

……

……

ii) Explain how excessive use of pesticides will affect nitrification. **(2 marks)**

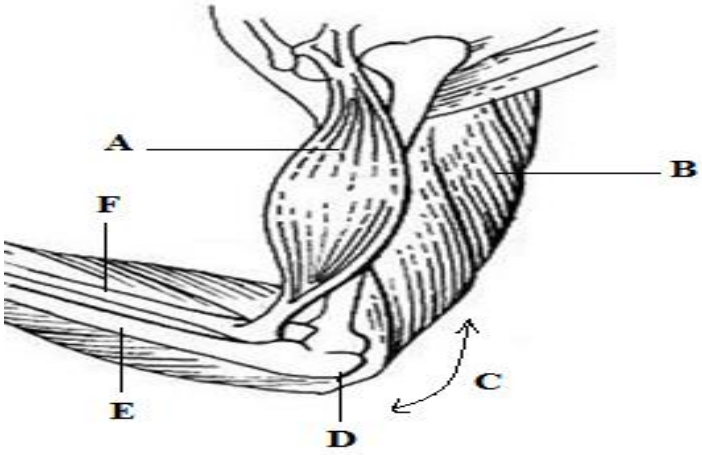
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4. Study the diagram below and answer the questions which follow.



(i) Identify the muscle represented by letters A and B **(2 marks)**

A……

B……

(ii) Describe how muscles A and B cause straightening of joint C **(2 marks)**

……

……

……

……

b) Name the joint C **(1 mark)**

……

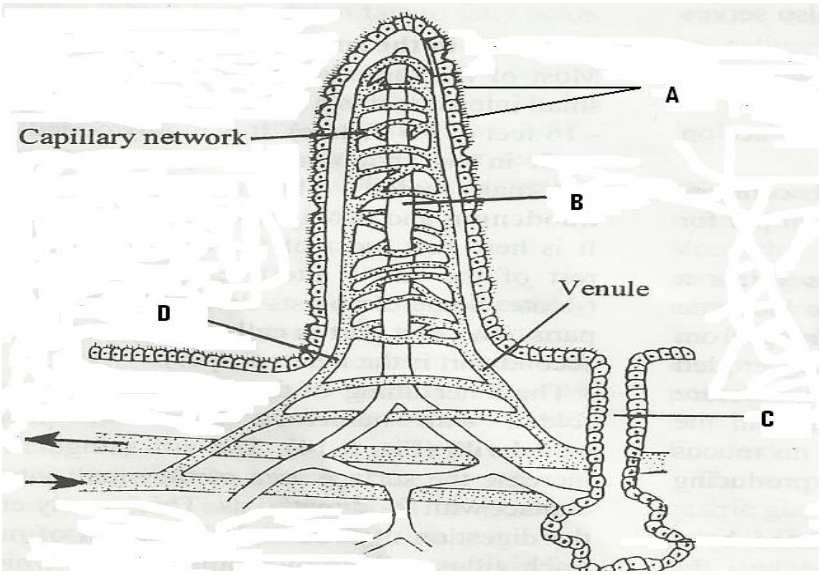
c) Name parts label D, E and F **(3marks)**

D……

E……

F……

5. The figure below represents a structure obtained from the ileum of a mammal.



a) Give the identity of the structure. **(1 mark)**

……

b) What is the importance of the structure named in (a) above? **(1 mark)**

……

……

c) Name the parts labeled A, B and D. **(3 marks)**

A……

B……

D……

d) (i) Name the juice secreted by the part labeled C**.** **(1 mark)**

……

(ii) List **two** enzymes present in the juice named in d (i) above. **(2 marks)**

……

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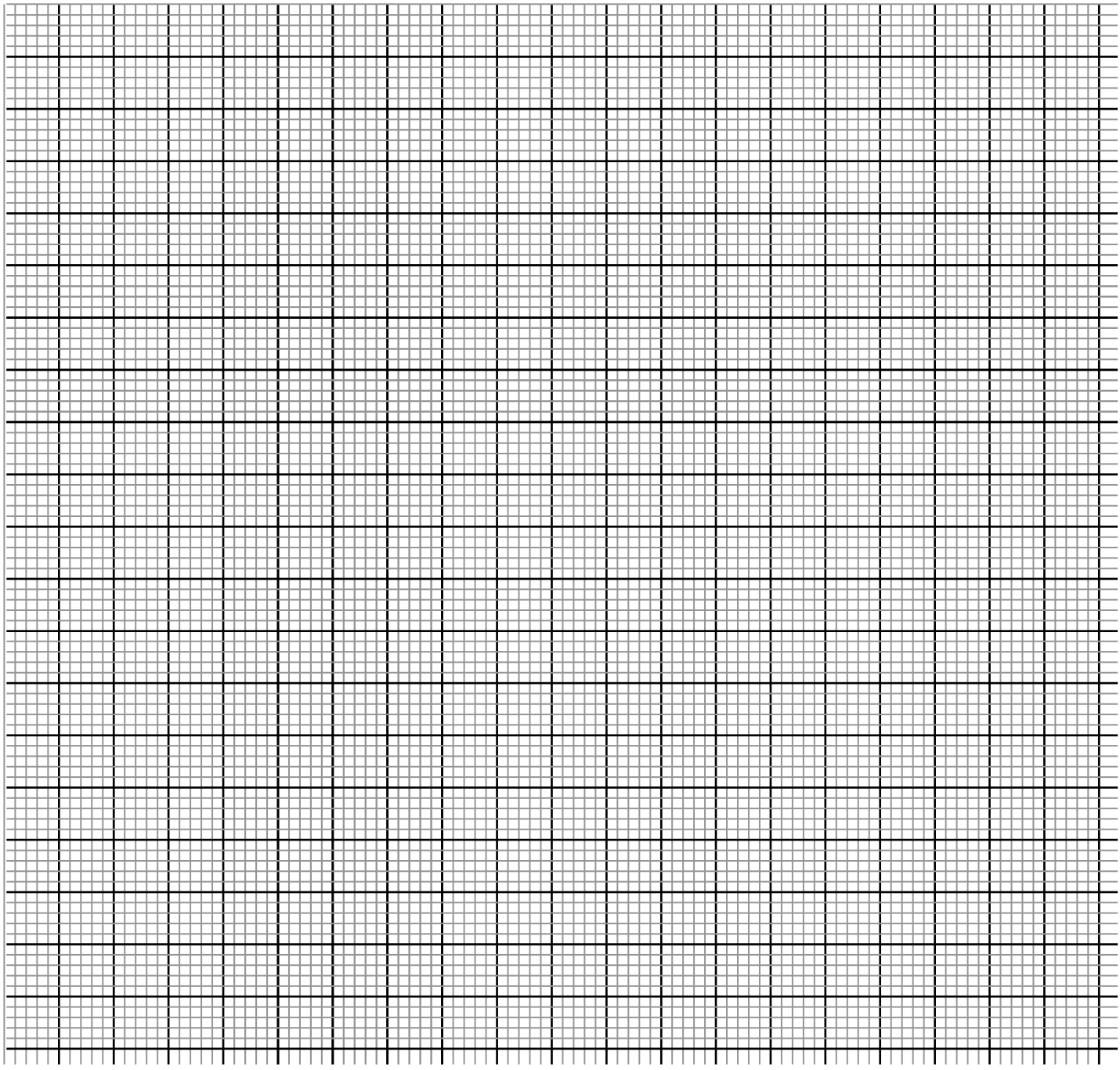
SECTION B (40 MARKS)

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

6. In an experiment to investigate a certain process in a given plant species, the rate of carbon(iv) oxide consumption and the rate of carbon (iv) oxide released were measured over a period of time of the day. The results of the investigation are shown in the table below.

Time of day (hrs)	6	8	10	12	14	16	18	20	22	24
Carbon (IV) Oxide consumption mm^3/min	0	43	69	91	91	50	18	0	0	0
Carbon (iv) oxide released mm^3/min	38	22	10	3	3	6	31	48	48	48

a) On the same axes, draw the graphs of volume of carbon (IV) oxide consumed and released against time **(7mks)**



b) Name the biochemical process represented by

i) Carbon (IV) oxide consumption **(1mark)**

……

(ii) Carbon (iv) oxide release **(1mark)**

……

c) Account for the shape of the curve for

i) Carbon (IV) Oxide consumption **(3marks)**

……

……

……

……

……

ii) Carbon (IV) Oxide release. **(3marks)**

……

……

……

……

……

d) i) From the graph state the time of the day when the plant attains compensation poin**t** **(1mark)**

……

ii) What is made by compensation point? **(2marks)**

……

……

……

e) Explain how temperature affects the rate of carbon (IV) oxide consumption in a plant.

(2marks)

……

……

……

……

7. a) i) State **two** significances of transpiration. **(2 marks)**

ii) Discuss the forces involved in movements of water from roots to the leaves. **(8 marks)**

b) Describe the mechanism of opening and closing of stomata using photosynthesis theory.

(10 marks)

8. a)State four characteristics of gaseous exchange surfaces **(4marks)**

b)Describe the mechanism of gaseous exchange in a named mammal **(16marks)**

KCSE 2025 MOKASA MOCK EXAM

(MOI GIRLS-KABARAK-SACHO SERIES 2)

BIOLOGY

231/3

PAPER 3 (PRACTICAL)

TIME: 1¾ HOURS

SCHOOL…… SIGN……

Kenya Certificate of Secondary Education. (KCSE)

REQUIREMENTS

Each candidate will require the following:

- Two visking tubing each 6cm
- 10cm string
- A scalpel
- 4 test – tubes
- 20ml measuring cylinder
- Two 100ml beakers
- 100ml of starch solution 0.5%
- 5ml of solution X – diastase solution 10%
- 2ml of solution X1– Boiled diastase solution 10%

  NB: boiled for 10 minutes
- Means of labeling – 2 labels
- Water bath
- Thermometer
- 6ml Iodine solution
- 6ml Benedict's solution
- 4 Droppers
- Means of timing

KCSE 2025 MOKASA MOCK EXAM

(MOI GIRLS-KABARAK-SACHO SERIES 2)

BIOLOGY

231/3

PAPER 3 (PRACTICAL)

TIME: 1¾ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education. (KCSE)

INSTRUCTIONS TO CANDIDATES

- *Answer **all** the questions.*
- *You are required to spend the first 15 minutes of the 1¾ hours allowed for the paper reading the whole paper carefully before commencing your work.*
- *Answers must be written in the spaces provided in the question paper.*
- *Additional pages must not be inserted.*

FOR EXAMINER'S USE ONLY

Questions	Maximum score	Candidate's score
Question 1	16	
Question 2	12	
Question 3	12	
Total score	**40**	

1. The photographs below show a variety of animals collected by a group of students during a field study.


Spider


Centipede


Roundworm


Housefly


Sea anemone


Millipede


Earthworm


Honey bee

a) Using the **observable** features only in the order given below, construct a dichotomous key that can be used to identify the animals **(13marks)**

- Body symmetry
- Limbs
- Six legs
- Wings
- Eight legs
- Pair of legs per segment
- Body segmentation

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b) (i) Name the phylum to which the housefly and the spider belong **(1mark)**

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ii) Give a reason for your answer in b(i) above **(1mark)**

……

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2. Study photograph P below and use it to answer the following questions.



a) On the photograph label a bract **(1mark)**

b) Describe the arrangement of stamens and structure of corolla and calyx

i) Stamens **(1mark)**

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ii) Corolla **(1mark)**

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iii) Calyx **(1mark)**

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c) i) Name the class of the plant from which the photograph was taken **(1mark)**

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ii) Using only observable features on the photograph give one reason for your answer in c i) above **(1mark)**

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d) i) Suggest the agent of pollination for the flower shown on the photograph **(1mark)**

……

ii) Give two reasons for your answer in d (i) above **(2marks)**

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e) i) Which type of ovary is found in the flower on the photograph **(1mark)**

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ii) Give a reason for your answer in e (i) above **(1mark)**

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f) The actual length of the flower measured 14cm. Work out the magnification of the photograph **(2marks)**

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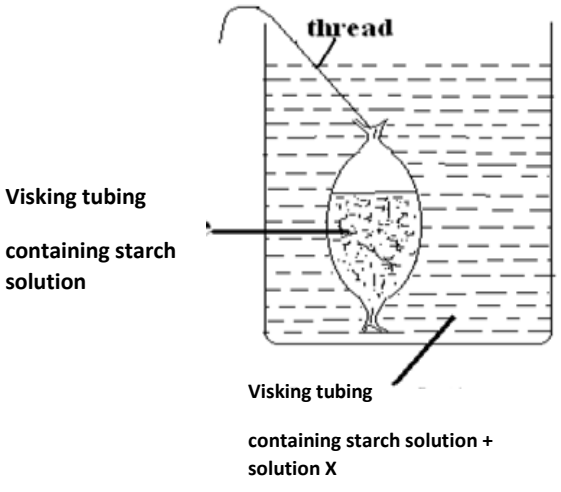
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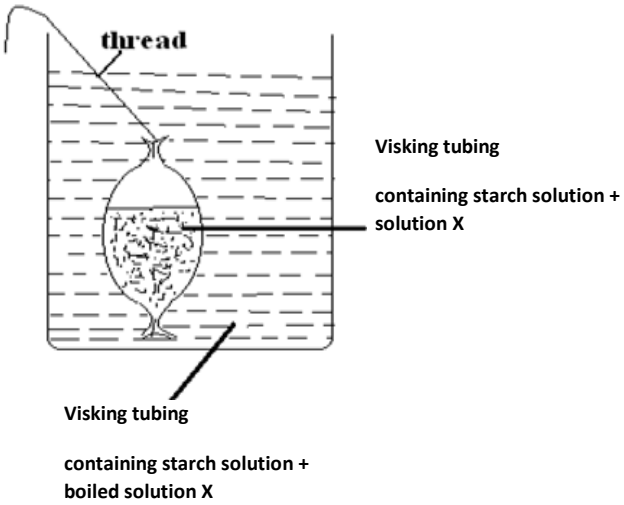
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3. You are provided with two visking tubings, a solution labeled X, iodine solution, benedict's solution and a piece of thread. Tie one end of the visking tubing tightly using the thread provided. With the help of a syringe, put 20ml of the solution labeled X into the visking tubings. Tie the other end of the visking tubing tightly. **Ensure that there is no leakage at both ends of the visking tubing.** Wash the outside of the visking tubing with water. Place the visking tubing upright in 100ml beaker. In **set up A** add the starch solution + solution X into the beaker to reach the level of starch solution in the visking tubing. In **set up B** add the starch solution + boiled solution X1 into the beaker to reach the level of starch solution in the visking tubing. Allow the set ups to stand for an hour in water bath maintained at 37^0C. After an hour, the contents of the visking tubing and the beaker were tested using iodine solution and benedict's solution. *Arrange your set-up as shown below*

Set up A



Set up B



Record in the table below the observations after the contents in set up A and B were tested using iodine solution and benedict's solution. **(8 marks)**

	VISKING TUBING		BEAKER	
Set up	**Iodine solution**	**Benedicts solution**	**Iodine solution**	**Benedict's solution**
A				
B				

KCSE 2025 MOKASA MOCK EXAM

(MOI GIRLS-KABARAK-SACHO SERIES 2)

CHEMISTRY

233/1

PAPER 1 (THEORY)

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education. (KCSE)

INSTRUCTIONS TO CANDIDATES

- *Write your name and index number in the spaces provided.*
- *Answer **all** questions in the spaces provided*
- *Mathematical tables and silent electronic calculators **may** be used for calculations.*
- *All workings **must** be clearly shown where necessary.*
- *Candidates should check the question paper to ascertain all the pages are printed as indicated and no questions are missing.*

For Examiners Use Only

MAXIMUM SCORE	STUDENTS SCORE
80	

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

1. a) What is meant by allotropy**?** **(1 mark)**

……

……

b) Name the allotrope of Sulphur that is stable below 96 ^{o}C. **(1 mark)**

……

c) Temperature of 96 ^{o}C is the transition temperature of Sulphur allotropes. Define the term transitional temperature? **(1 mark)**

……

……

2. Define the following terms as used in Chemistry

i) Flame **(1 mark)**

……

……

ii) Optimum conditions **(1 mark)**

……

……

iii) End point of a reaction **(1 mark)**

……

……

3. Why is solid carbon (IV) Oxide (Dry ice) preferred in cool boxes than the normal ice (solid water)? **(2mks)**

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4. 30cm^3 of ethene gas was exploded in 60cm^3 of oxygen gas. Write a balanced chemical equation of the reaction that will take place and hence determine the volume of the residue gas at room temperature. **(3mks)**

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5. When solid M is dissolved in water, it dissolves and forms a blue solution. Addition of ammonia solution to this solution forms a blue precipitate which dissolves in excess to form a deep blue solution. Write the formula and name of the ion responsible for the deep blue solution. **(2mks)**

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6. The solubility of Iron (II) Sulphate crystals at 22^oC is 15.65g per 100g of water.
Calculate the mass of iron (II) sulphate crystals in 45g of saturated solution at the same temperature**.** **(2mks)**

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7. The table below gives bond energies of some covalent compound

Bond	**Bond energy KJ mol^{-1}**
C – H	413
O=O	497
C=O	804
H-O	464

Calculate the enthalpy change for the combustion of methane in excess oxygen gas. **(3mks)**

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8.Study the following equilibrium equation.

$2X_2(g) + Y_{2(g)} \rightleftharpoons 2X_2Y_{(g)} \Delta H = -197kJ/mol$

Suggest two ways of increasing the yield of X_2Y**.** **(2mark)**

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9. A student burnt magnesium ribbon in a gas jar full of Sulphur (IV) oxide gas.

(i) State two observations made in the gas jar. **(2 marks)**

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(ii) Write an equation for the reaction that took place. **(1 mark)**

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10. Iron is extracted from its ore by the blast furnace process.

a) Name the chief ore from which iron is extracted from. **(1 mark)**

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b) An ore is suspected to contain mainly iron. Describe a method that can be used to confirm the presence of iron in the **ore.** **(2 marks)**

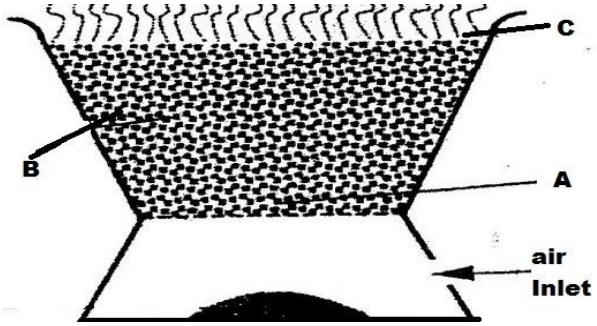
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11. The diagram below shows a stove that uses charcoal as a fuel in a well-ventilated room. Study it and answer the questions that follow.



a) Write the chemical equation for the reaction that takes place at

i) Region A (**1mark)**

.....

ii) Region C**(1 mark)**

.....

b) State the reason why the stove above should be used in a well ventilated room**.** **(1 mk)**

.....

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12. During electrolysis of dilute sulphuric (VI) acid, a current of 0.63 A was passed through the electrolyte for 74 minutes. Calculate the volume of gas produced at the anode.

(1 Faraday = 96500 coulombs; MGV 24dm^3 at room temperature) **(3marks)**

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13. The table below gives the rate of decay for a radioactive element K;

Number of days	Mass (g)
O	12.8
280	0.8

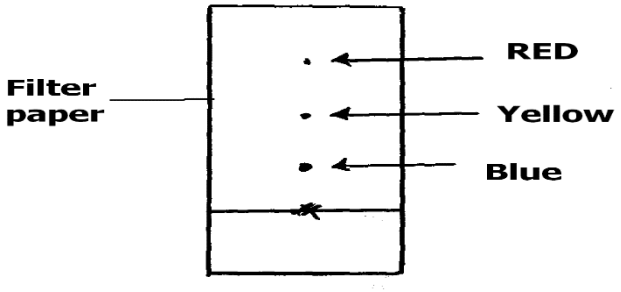
Determine the half – life of the radioactive element K**.** **(2mks)**

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14. The chromatogram below shows the constituents of ink sample M using methylated spirit as solvent.



State two factors that allow separation of the pigment abov**e.** **2mks**

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15. Starting with magnesium sulphate solution, describe how a solid sample of magnesium oxide can be prepared in the laboratory. **(3mks)**

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16. When solid F was added into a beaker containing distilled water, it dissolved to form a colourless solution F. When two drops ofacidified barium chloride solution was added to the sample solution F, a white precipitate was formed. There was effervescence when solid sodium carbonate was added to another sample of solution F.

a) Identify the cation and the anion present in solid F **(1 mark)**

Cation …….

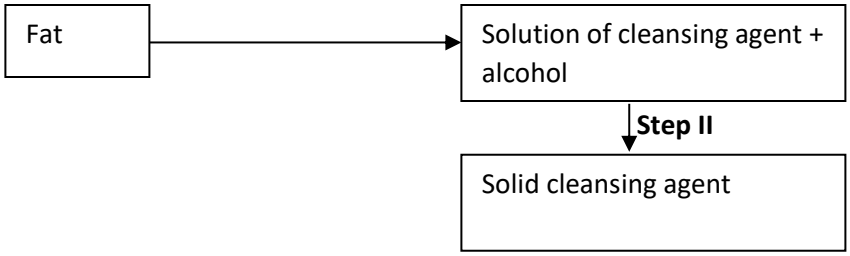
Anion …….

b) Write ionic equation for formation of white precipitate formed upon adding acidified barium (ii) chloride **(1 mark)**

……

17. The scheme below was used to prepare a cleansing agent. Study it and answer the questions that follow.

Step I



i) What name is given to the type of cleansing agent prepared by the method shown in the scheme? **……** **(1mk)**

ii) Name one chemical substance added in step II **(1mk)**

……

(iii) What is the purpose of adding the chemical substance named in (ii) above**.** **(1mk)**

……

……

18 (a) Identify the acid and base in the forward reaction given by the equation below:

$HSO_{4\,(aq)}^{-} + H_2O_{(l)} \leftrightharpoons H_2SO_{4\,(aq)} + OH_{(aq)}^{-}$ **(1mark)**

Acid ……..…….….

Base ……..

b) Using the above equation and your answer in (a) above, define the term acid.

……(1 marks)

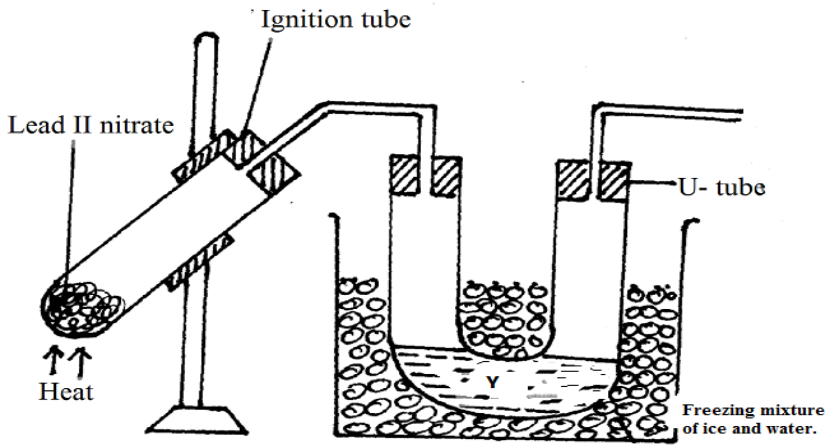
19. i) Name the compound formed when chlorine gas reacts with hot concentrated sodium hydroxide solution. **(1mk)**

……

ii) Name use of the compound in (i) above other than bleaching**.** **(1mk)**

……

20. Study the set- up below and answer the questions that follow that was used to prepare oxygen gas in the laboratory.



a) i) Identify:-

Liquid Y…….. (½ mark)

ii) What colour is liquid **Y** **(½ mark)**

……

b) Write the chemical equation for the reaction taking place in the Ignition tube. **(1mark)**

……

c) Complete the diagram to show how oxygen was collected **(1mark)**

21. Write the electronic configuration of Sulphur in;

ii) SO_3^{2-} **(1mark)**

……

……

iii) H_2S**(1mark)**

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……

22. (a) State Graham's law of diffusion. **(1 mark)**

……

……

(b)60cm³ of oxygen gas diffused through a porous hole in 50 seconds. How long will it take 80cm³ of Sulphur (IV) oxide to diffuse through the same hole under the same conditions? (S = 32, O = 16). **(2 marks)**

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23. A mixture of magnesium powder and copper powder was reacted with dilute hydrochloric acid. The solution was then filtered, name;

(a) (i) The residue **(1mark)**

……..

(ii) The filtrate **(1mark)**

……

(b) Write an ionic equation for the reaction that takes place **(1mk)**

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24. Name the following processes;

a) When anhydrous calcium chloride is left in an open beaker overnight a solution was formed. **(1mk)**

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b) When sodium carbonate decahydrate crystals are left in an open beaker for some days it turned into a powder**.** **(1mk)**

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25. Compare the atomic sizes of sodium and magnesium. Explain. **(2mks)**

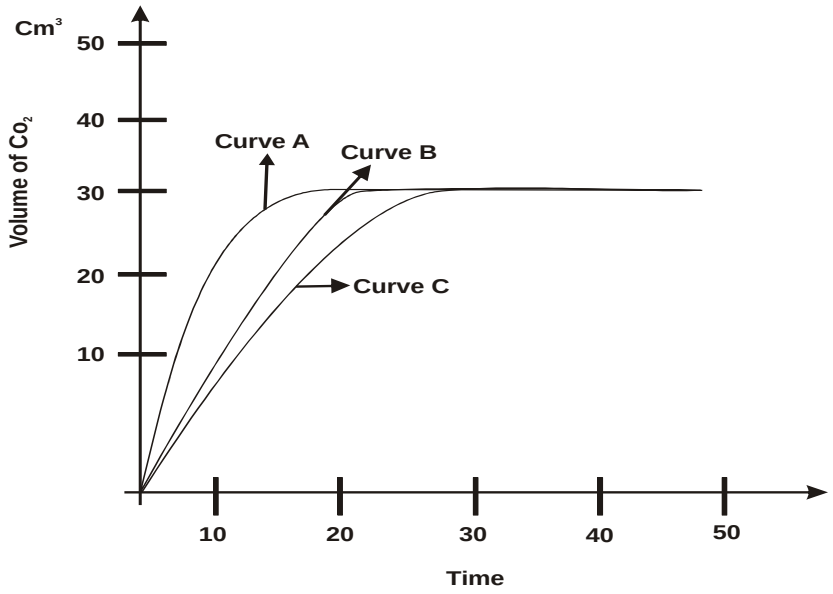
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26. The graphs below were drawn when15 g of marble chips in different physical states were reacted with 50cm^3 of 2M Hydrochloric acid. They are drawn by measuring the volume of carbon (iv) oxide produced with time.



a) Which curves corresponds to the reactions involving powdered calcium carbonate andlarge sized marble chips with the dilute acid?

i) Powdered calcium carbonate **(1mark)**

……

ii) Large sized calcium carbonate **(1mark)**

……

b) All the graphs eventually flatten out at the same level but at different time. Why do the graphs flatten out at the same level? **1 mark**

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27. Draw a well labelled diagram to show the set-up that can be used to separate mixture of iodine and sodium chloride**.** **(2marks)**

28. Give the structural formula and name the compound formed when methanol and ethanoic acid are reacted in presences of few drops of concentrated sulphuric (VI) acid**.** **(2 marks)**

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……

KCSE 2025 MOKASA MOCK EXAM

(MOI GIRLS-KABARAK-SACHO SERIES 2)

CHEMISTRY

233/2

PAPER 2 (THEORY)

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education. (KCSE)

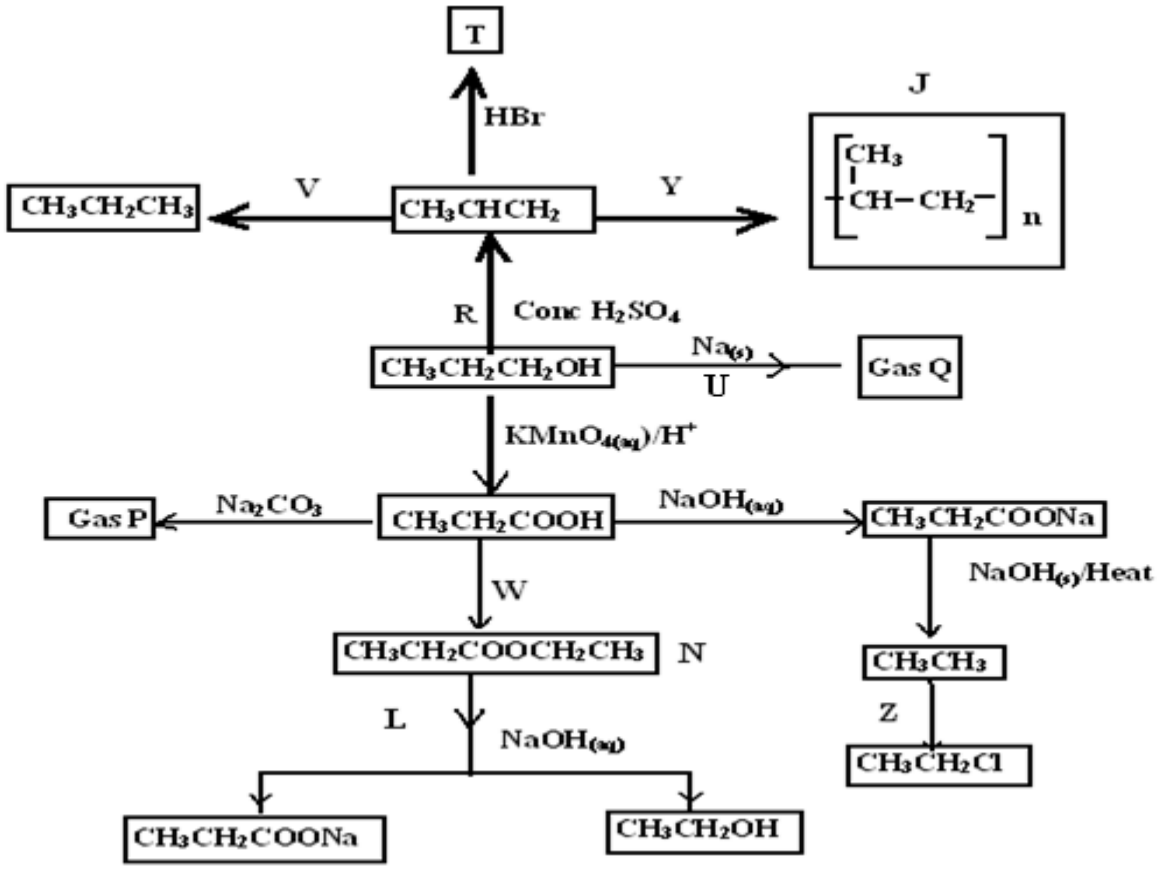
INSTRUCTIONS TO CANDIDATES

- *Write your name and index number in the spaces provided.*
- *Answer **all** questions in the spaces provided*
- *Mathematical tables and silent electronic calculators **may** be used for calculations.*
- *All workings **must** be clearly shown where necessary.*

QUESTIONS	MAX. SCORE	CANDIDATE'S SCORE
1	12	
2	13	
3	10	
4	13	
5	12	
6	11	
7	9	
TOTAL	80	

For Marking Schemes Contact 0746 222 000 / 0742 999 000

1. Study the reaction scheme below and answer the questions that follow.



a. Name I gas P

II gas Q

III Substance **J** **(1½ mks)**

b. Give the most probable structural formula of product T **(1 mk)**

I. Name reaction producing substance labeled N **(1mk)**

II. State the characteristic property of N **(1mk)**

c. Complete the table below.

Reaction	Reagents	Condition
W		
Z		
V		

(3mks)

For Marking Schemes Contact 0746 222 000 / 0742 999 000

d. I. Name the organic product of reaction U **(½mk)**

II Write the equation for the reaction represented by U **(1mk)**

e. What is the specific name of process Y? **(½mk)**

f. What is the type of reaction represented by Z? **(½mk)**

h. Give two reasons why ethanoic acid has a higher melting point than ethanol when both of them have two carbon atoms. **(2 mks)**

2. (a) State Hess's law. **(1 mark)**

(b) Use the following information to answer the questions that follow:

$C_{(S)} + O_{2(g)} \rightarrow CO_{2(g)}$ $\Delta H = -393KJ/mol$

$H_{2(g)} + \frac{1}{2}O_{2(g)} \rightarrow H_2O_{(g)}$ $\Delta H = -296KJ/mol$

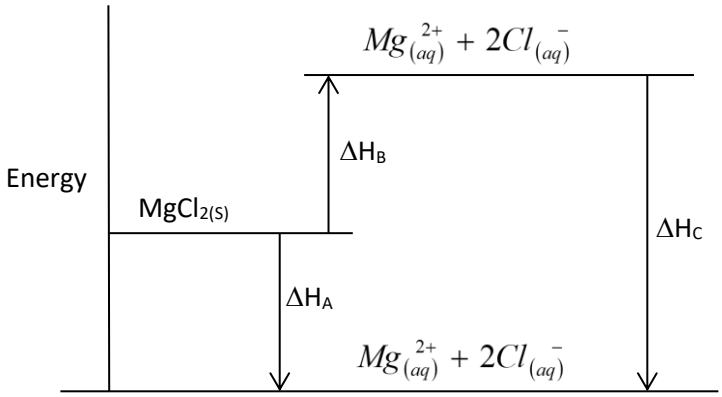
$C_4H_{10} + \frac{13}{2}O_{2(g)} \rightarrow 4CO_{2(g)} + 5H_2O$ $\Delta H = -2877KJ/mol$

(i) Draw an energy cycle diagram relating heat of formation and combustion of butane. **(2 marks)**

(ii) Calculate the heat of formation of butane. **(3 marks)**

(c) Distinguish between hydration energy and lattice energy. **(2 marks)**

(d) The diagram below shows an energy level diagram for the formation of magnesium chloride. Study it and answer the questions that follow.



(i) State the enthalpy changes represented by

A **(½ mark)**

B **(½ mark)**

C **(½ mark)**

(ii)What is the relationship between ΔH_A, ΔH_{BA} and ΔH_C . **(½ mark)**

(e) (i) Define heat value of a fuel. **(1 mark)**

(ii) Give **two** reasons why wood and charcoal are chosen for domestic heating. **(2marks**

3. a) Sulphur is mined using the frasch process which uses superheated water at 170℃ and hot compressed air.

i) Explain how water at 170℃ is obtained. **(1 mark)**

ii) What is the role of superheated water? **(1 mark)**

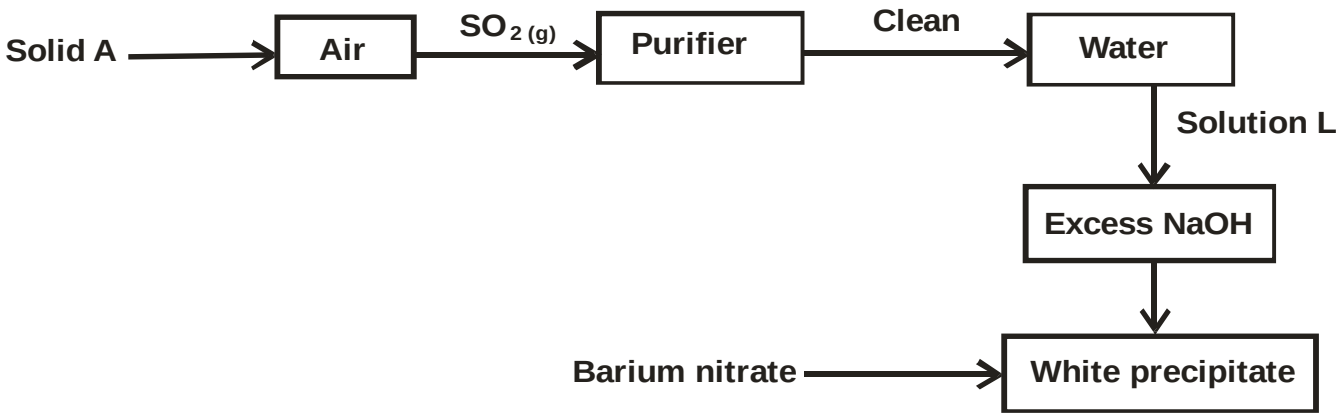
iii) State the role of compressed air. **(1 mark)**

b) In an experiment, 3.6g of sulphur were obtained by reacting sulphide with sulphur (IV) oxide as shown in the equation below.

$$2H_2S_{(g)} + SO_{2\,(g)} \longrightarrow 2H_2O_{(l)} + 3S_{(s)}$$

Given that the yield of sulphur is 75%. Calculate the volume of SO_2 Used at room temperature and pressure. (H = 1, S = 32, O = 16, Molar gas volume at r.t.p is $24dm^3$) **(3 marks)**

c) Study the flow chart below and answer the questions that follow.



i) Other than sulphur, name **two** other possible identities of solid A. **(1 mark)**

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……

ii) Write an ionic equation for the formation of the white precipitate. **(1 mark)**

……

iii) State and explain the observation made when dilute hydrochloric acid is mixed with the white precipitate. **(1 mark)**

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……

iv) State and explain the observation made when blue litmus papers were dipped into solution L.

(1 mark)

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4. Use the table below to answer the questions that follow. (The letters are not actual symbols of the elements)

Element	Atomic number	M.P (^{0}C)
A	11	97.8
B	13	660
C	14	1410
D	17	-101
E	19	63.7

a) Select an element which is

i) A poor conductor of electricity. **(l mk)**

ii) The most reactive non-metal. **(1 mk)**

b) To which period of the periodic table does element E belong? **(l mk)**

c) Element E losses its outermost electron more readily than A. Explain. **(2mks)**

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e) Use dots (•) and crosses (**x)** to represent the valence electrons and show the bonding in the compound formed between element **C** and **D**. **(2mks)**

(f) Explain why the melting point of element **B** is higher than that of element **A** **(2mks)**

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(g) Write an equation for the reaction that takes place between element **A** and **water**. **(1 mk)**

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h) Describe how a solid mixture of the sulphate of element **E** and **Lead (II) sulphate** can be separated into solid samples. **(3mks)**

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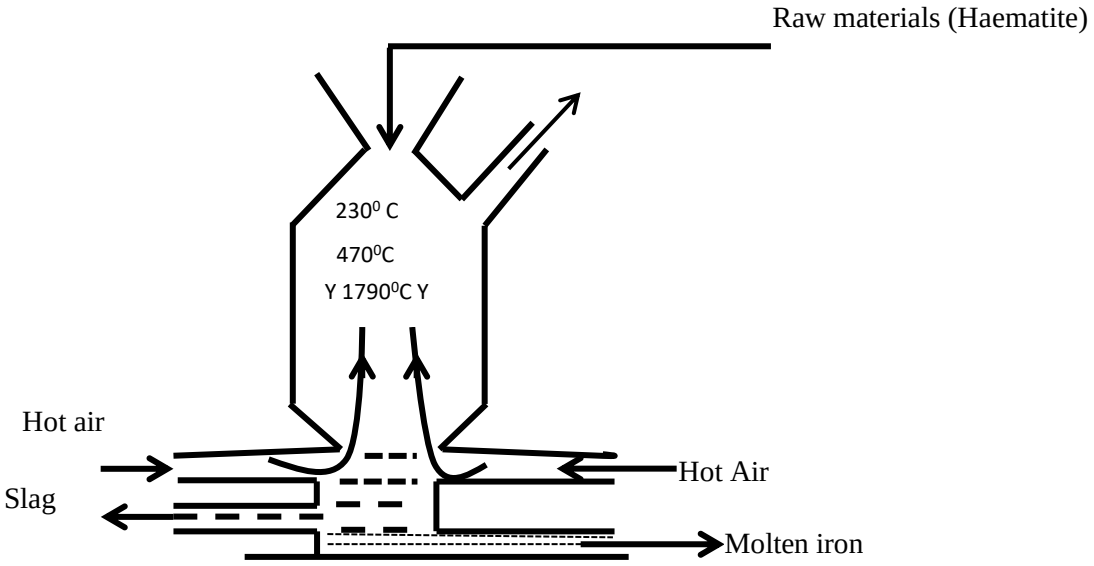
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5. a) Iron is obtained from haematite using a blast furnace shown below. Study it and answer the questions that follow.



i) Four raw materials are required for the production of iron. Three of these are haematite, hot air and coke. Give the name of the fourth raw material and its use. **(1 mark)**

I Name

II Use

ii) Name another Iron ore other than the one shown in the blast furnace. **(1 mark)**

iii) State one physical property of slag other than density that allows it to be separated from molten Iron as shown in the figure. **(1 mark)**

iv) Iron from the blast furnace contains about 5% carbon.

I. Describe how the carbon content is reduced. **(1 mark)**

II. Why is it necessary to reduce the carbon content? **(1 mark)**

v) Explain why temperature in the region marked Y is higher than that of the incoming hot air

(1 mark)

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vi) Describe the process which led to the formation of iron in the blast furnace **(3 mark)**

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vii) Give a reason why the melting point of the Iron obtained from the blast furnace is 1200^0C while that of pure iron is 1535^0C **(1 mark)**

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viii) One of the components of the waste gases is Nitrogen (IV) oxide. Describe the adverse effects it has on the environment. **(2 marks)**

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6. The equation below is for the manufacture of ethanol by direct hydration of ethane.

$$H_2O_{(g)} + C_2H_{4\,(g} \longrightarrow C_2H_3OH_{(g)} \quad H = -46kJmol^{-1}$$

a) State the effect an increased in pressure will have on the equilibrium yield of ethanol and give a reason for your answer. **(2mks)**

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(b) In an experiment, excess solid calcium carbonate was added to $100cm^3$ of 0.2M hydrochloric acid at 20^oC . The volume of carbon (IV) oxide produced was measured at regular time interval. The results of the experiment are as shown in the table below.

Time (seconds)	0	10	20	30	40	50	60	70	80	90	100
Volume of carbon(IV)oxide(cm^3)	0	18	30	40	48	53	57	58	58	58	58

a) Draw a diagram of suitable apparatus for the experiment. **(2mks)**

b) On the grid provided plot of volume of CO_2 produced against time. **(3mks)**

c) On the grid plot a graph you would expect if the acid was kept at 30^oC. **(1mk)**

d) What is the rate of reaction if the volume of hydrogen per minute between 4^{th} and 5^{th}second **(1mk)**

e) Other than raising the temperature state two ways by which the rate of reaction would be increased. **(2mks)**

7. Use standard potential for elements G, M, N,P and Q given below to answer the questions that follow.

		E^{θ} volts
$G^{+}_{(aq)} + e^{-}$	$G_{(s)}$	-2.71
$M^{2+}_{(aq)} + 2e^{-}$	$M_{(s)}$	-2.37
$2N^{+}_{(aq)} + 2e^{-}$	$N_{2(g)}$	0.00
$P^{2+}_{(aq)} + 2e^{-}$	$P_{(s)}$	+0.34
$\frac{1}{2} O_{2\,(g)} + e^{-}$	$Q_{(g)}$	+2.87

(a) **(i)** Which element is likely to be hydrogen? Give a reason to your answer. **(2mks)**

……

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(ii) What is the E^{θ} of the strongest oxidizing agent? **(1mk)**

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(iii) Calculate the E^{θ} value of the electric chemical cell constructed using M and P. **(2mks)**

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(b) During the electrolysis of aqueous copper (II) sulphate using copper electrodes a current of 0.8 amperes was passed through the cell for 10hours.

(i) Write ionic equation for the reactions that took place at the cathode. **(1mk)**

(ii) Determine the change in mass of the anode which occurred as a result of the electrolysis process. (Cu = 63.5, 1 Faraday = 96500 Coulombs) **(3mks)**

KCSE 2025 MOKASA MOCK EXAM

(MOI GIRLS-KABARAK-SACHO SERIES 2)

CHEMISTRY

233/3

PAPER 3 (PRACTICAL)

TIME: 2¼ HOURS

SCHOOL…… **SIGN……**

Kenya Certificate of Secondary Education. (KCSE)

CONFIDENTIAL

In addition to fittings and Chemicals in Chemistry laboratory, each candidate will require the following.

1. $100cm^3$ of solution A
2. $90cm^3$ of solution B.
3. $80cm^3$ of solution C.
4. $80cm^3$ of solution D.
5. About 1g of solid E.
6. $500cm^3$ of distilled water.
7. One 25ml pipette
8. One 50ml burette
9. Empty 100ml beakers (glass or plastic)
10. 100ml/50measuring cylinder
11. 10ml or 25ml measuring cylinder.
12. Stop watch.
13. 6 test tube in a rack and 2 boiling tubes.
14. Thermometer
15. Wooden split
16. Test tube holder
17. 0.5g of solid F.

Access

- 2m NaOH and a dropper
- Source of heat
- 0.1MKI and a dropper
- Universal indicator paper and PH chart.
- 0.03MKMno$_4$ (acidified potassium maganate VII)
- Bromine water
- Methyl orange indicator and a dropper.
- Phenolphlthen indicator

Solution A is 0.1MHCl
Solution B is 0.05MNa_2Co_3
Solution C is 1M NaOH
Solution D is 1M H_2SO_4
Solution E is 1g pb $(NO_3)_2$
Solution F is 0.5 melleic acid

KCSE 2025 MOKASA MOCK EXAM

(MOI GIRLS-KABARAK-SACHO SERIES 2)

CHEMISTRY

233/3

PAPER 3 (PRACTICAL)

TIME: 2¼ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education. (KCSE)

INSTRUCTIONS TO CANDIDATES

- *Answer all question in the space provided in the question paper.*
- *You are not allowed to start working with apparatus for the first 15minutes of the 2 ¼ hours allowed for this paper. This time is to enable you to read the question paper and make sure you have all chemicals and apparatus that you may need.*
- *All working **MUST** be cleary shown where necessary.*
- *Candidate should check the question paper to ensure that all the pages are printed as indicated and that no question is missing.*
- *Candidate should answer questions in English.*

FOR EXAMINER'S USE ONLY

Question	Maximum marks	Candidate's score
1	11	
2	13	
3	16	
Total score	40	

Q1. You are provided with:

Solution A: Hydrochloric acid

Solution B: 0.05 M sodium carbonate

Phenolphthalein indicator

Methyl orange indicator

You are required to standardize solution A using solution B.

Procedure:

Fill burette with solution A. pipette 25ml of solution B into the conical flask. Add 3 drops of phenolphthalein indicator and titrate with solution B. Do not pour the content of the conical flask. Record the reading in the **table I** below. Add 3 drops of methyl orange indicator to the content of the conical flask and continue titrating with solution A. Record the readings in **table II** below. Repeat the procedure and complete table I and table II.

Table I (using phenolphthalein indicator**)** **(3mks)**

	1	2	3
Find burette reading			
Initial burette readings			
Volume of solution A cm^3			

i) Find average **titre** t_1 **(1mk)**

Table II (Using methyl orange indicator)

Find burette reading			
Initial burette readings			
Volume of solution A cm^3			

Find average **titre t_2** **(1mk)**

ii) Find the total volume of solution A used. **(1mk)**

iii) Calculate the number of moles of sodium carbonate in $25cm^3$ **(1mk)**

iv) Write the equation for the reaction between solution A and solution B. **(1mk)**

v) Find the moles of solution A in the total volume of the acid. **(1mk)**

vi) Find the morality of the acid. **(2mks)**

Q2. You are provided with:

1M sodium hydroxide solution C

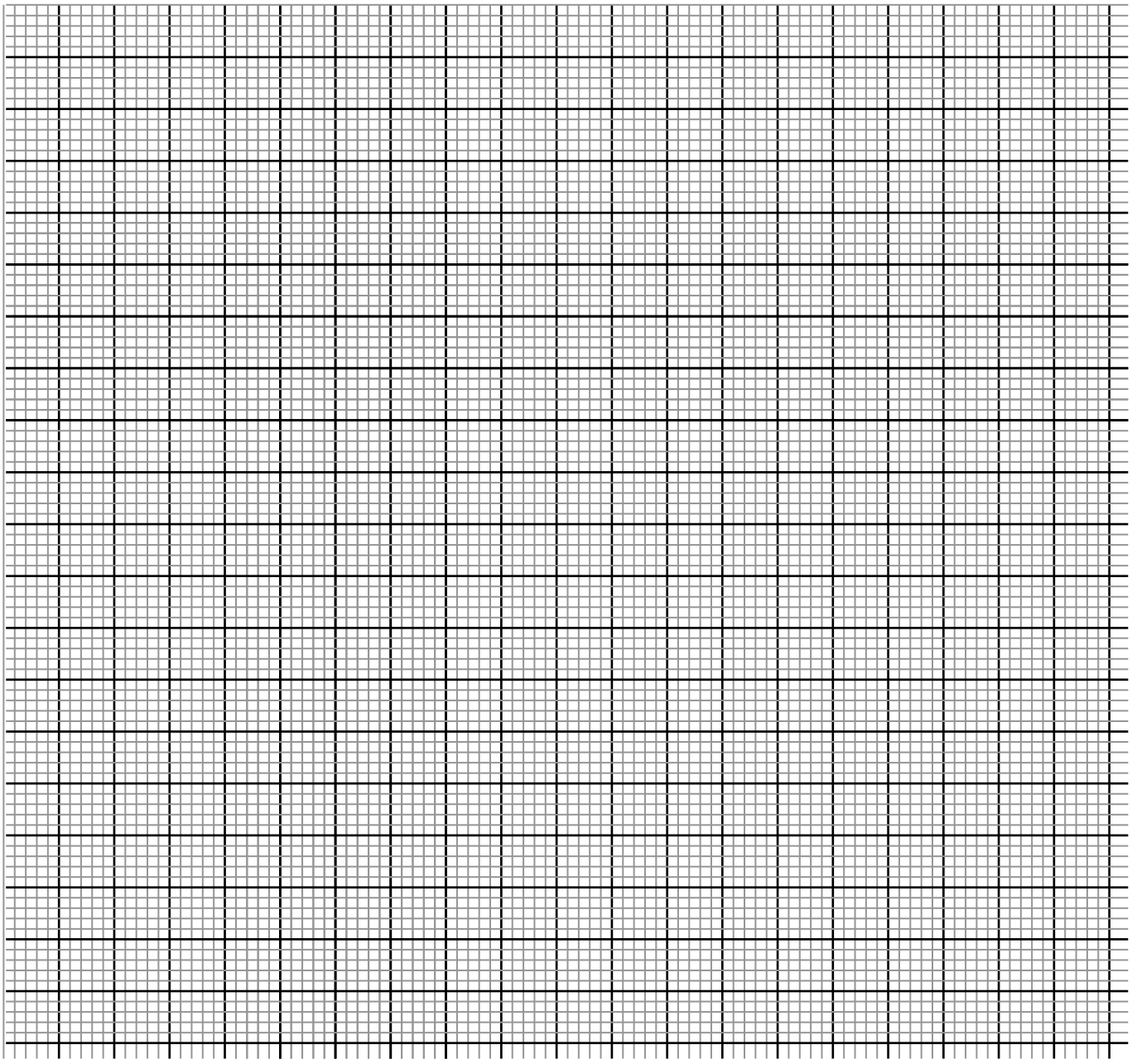
1M sulphuric (vi) acid solution D

You are required to determine heat of neutralization of sodium hydroxide solution. Using a measuring cylinder, measure $50cm^3$ of solution C and transfer it to 100ml lagged beaker. Record the initial temperature of solution C in the **Table I below.** Clean the measuring cylinder and use it to measure $5cm^3$ portion of solution D to the solution C in a beaker stir with thermometer and record the new temperature in the table below. Continue adding $5cm^3$ portion of solution D recording the temperature after each addition until $40cm^3$ of solution D has been added.

Solution of D added cm^3	0	5	10	15	20	25	30	35	40
Temperature of mixture (^oc)									

(5mks)

a) Plot the graph of temperature rise against volume of the solution D Used. **(3mks)**



b) From the graph determine the maximum temperature rise. **(1mk)**

c) From the graph determine the volume of solution D required for neutralization. Indicate V of the graph. **(1mk)**

d) Calculate the molar heat of neutralization for the reaction (C = 4.2J/kg/K. Na = 23 H = 1 S =32 O =16) **(3mks)**

Q3. A You are provided with:

SOLID E

- Sodium hydroxide solution
- Potassium iodide solution
- Wooden split

Solid E is suspected to be lead(ii) Nitrate

a) From reagents provided, select and describe 3 tests that could be carried out consecutively to confirm solid E is lead (ii) Nitrate. Write the tests and expected observation in the space provided.

Test 1	**Expected observation**
(1mk)	**(1mk)**

Test 2	Expected observation
(1mk)	**(1mk)**

Test 3	Expected observation
(1mk)	**(1mk)**

b) Carry out tests described in (a) using solid E and record observations and inference in space provided.

Test 1

Observation	Inference
(½mk)	**(½mk)**

Test 2

Observation	Inference
(1½mk)	**(½mk)**

Test 3

Observation	**Inference**
(½mk)	**(½mk)**

Q3B. You are provided with solid F carry out the following tests. Record observations and inferences in the space provided.

a) Place all solid F in a boiling tube.

Add about $10cm^3$ of distilled water and shake. Retain the solution for use in procedure (b).

Observation	Inference
(½mk)	**(½mk)**

b) Use about $3cm^3$ portion of the mixture in a test tube for the test (i) (ii) and (iii).

i) To the first portion of the mixture put universal indicator paper provided.

Observation	**Inference**
(½mk)	**(½mk)**

ii) To the second portion add two drops of acidified potassium manganate VII and warm the mixture**.**

Observation	**Inference**
(1mk)	**(1mk)**

iii) To the last portion add 3 drops of bromine water.

Observation	**Inference**
(½mk)	**(½mk)**

KCSE 2025 MOKASA MOCK EXAM

(MOI GIRLS-KABARAK-SACHO SERIES 2)

PHYSICS

232/1

PAPER 1 (THEORY)

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education. (KCSE)

INSTRUCTION TO CANDIDATES

a) Write your name, index number/Admission number in the spaces provided above.

b) This paper consists II sections: A & B.

c) Attempts all the questions in the spaces provided.

d) Silent Non Programmable electronic calculator may be used

e) All working must be clearly shown.

For examiners Use only

SECTION	QUESTION	Maximum Score	Candidates Score
A	1 – 13	25	
B	14	10	
	15	12	
	16	10	
	17	11	
	18	12	
Total Score		**80**	

SECTION A: (25 MARKS)

Answer all the questions from this section.

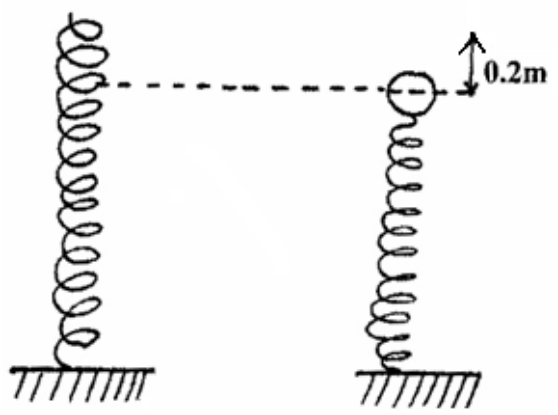
1. (a) A body in circular motion moving at constant speed is said to be accelerating. Explain this. **(1mk)**

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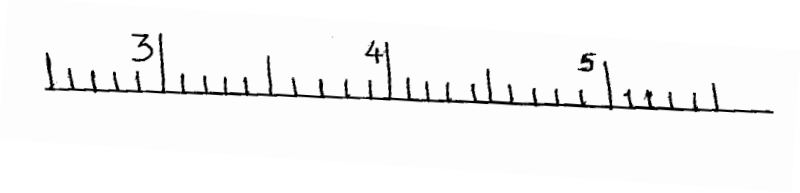
(b) A stone of mass 450g is rotated in a vertical circle at 3 revolutions per second. If the string has a length of 1.5m, determine its linear velocity. **(2mks)**

2. A steel ball of mass 0.05kg was placed on top of a spring on a level ground. The spring was then compressed through a distance of 0.2m.



If the spring constant is 15N/m. Calculate the maximum height reached when the spring is released. **(3mks)**

3. The figure below shows part of the main scale of vernier calipers.



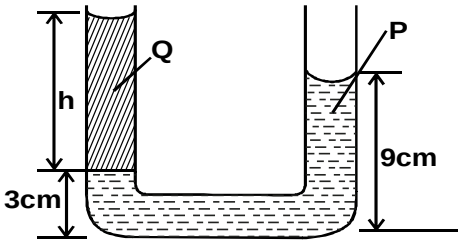
Insert the vernier scale to the main scale, to show a reading of 3.62 cm **(1 Mk)**

4. A liquid flows into a pipe of varying cross sectional area. The inlet cross section is 10cm in diameter. If the liquid leaves the pipe at $0.5m^3/s$ find the inlet velocity of the liquid. **(3 mks)**

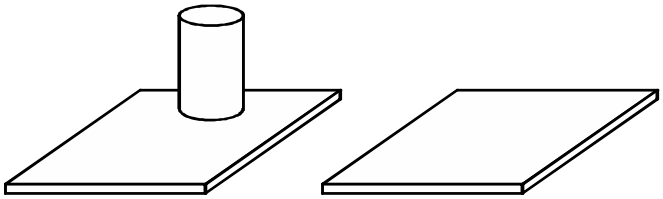
5. Explain the reason why a dropping dust particle in a still room does not trace a straight vertical path. **(1mk)**

6. Sketch a velocity-time graph for an object thrown vertically upwards until it gets back to it's initial position **(2mks)**

7. In the figure below, U-tube contains two immiscible liquids P and Q. If the density of Q is 900kg/m³ and that of P is 1200kg / m³, Calculate the height of liquid Q.**(3 marks)**



8. The diagram shows a solid cylinder standing on a horizontal surface. The cylinder is in stable equilibrium.



On the horizontal space provided, sketch the cylinder in neutral equilibrium **(1 mark)**

9. In terms of intermolecular forces, explain the difference between liquid and gaseous state.

(1 mark)

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10. State and explain why it would be advisable to use hollow bricks in place of normal building stones in countries which experience winter. **(2marks)**

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11. Sketch on the axis, a graph of mass per unit volume of water against temperature from 0^0C to 10^0C. **(2mks)**

12. A student dropped a drop of oil and water respectively on a clean glass surface as shown in

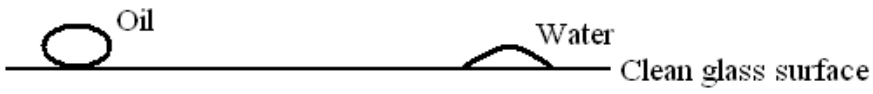


Figure 3

Explain the difference in the shapes formed on the surface of glass **(2mks)**

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13. What does mechanics as a branch of physics entail? **(1mk)**

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SECTION B: 55 MARKS

Answer all the questions from this section.

14. (a)State Newton's second law of motion in terms of in momentum. **(1mk)**

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(b) A trolley of mass 5kg travelling to the right at 2m/s collides heads on with another trolley of mass 3kg travelling at 4m/s to the left. Find their velocity after collision if the collision is perfectly inelastic. **(3mks)**

(c) A bullet of mass 2g is fired with a velocity of 300m/s into a wooden block of mass 5kg suspended from a long string. The bullet sticks into the wood and the two move together.

(i) Find the velocity of the block and the bullet immediately after collision took place. **(3mks)**

(ii) Calculate the height to which both swing upwards. **(3mks)**

15. (i) Define specific latent heat of fusion **(1mk)**

(ii)300g of ice at 0^0c is dropped into a copper calorimeter containing warm water of mass 60g at 60^0c. it's observed that only 80% of ice melted.

(Take: Specific heat capacity of water = 4200 $Jkg^{-1}k^{-1}$

Heat capacity of copper = 400 JK^{-1})

(a) Determine the final temperature of the mixture. **(1 mk)**

(b) Determine the heat lost by calorimeter. **(2 mks)**

(c) Determine the heat lost by warm water. **(2 mks)**

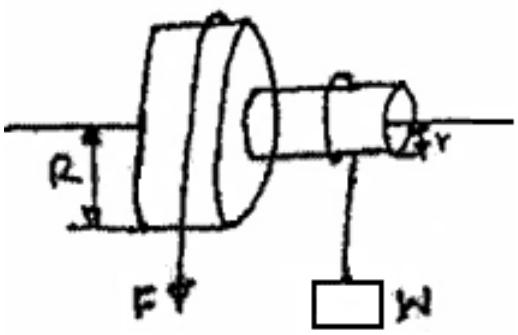
(d) Determine the specific latent heat of fusion of ice. **(3 mks)**

(e) It's observed that if the temperature of warm water used was 80^0c, then all the ice could have melted. What would be the final temperature of the mixture?

Use the value of specific latent heat of fusion obtained in (d) above. **(3 mks)**

16. (a)Draw a single pulley arrangement with a velocity ratio of 2. **(2mks)**

(b) Figure shows a wheel and axle being used to raise a load W by applying an effort F. the radius of the large wheel is R and of the small wheel r as shown.



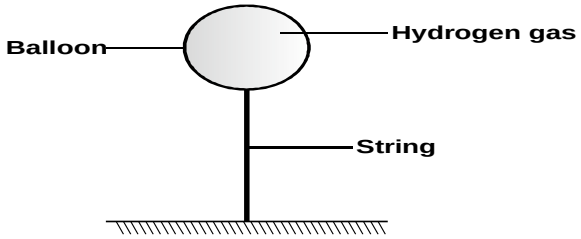
(i) Show that the velocity ratio (V.R) of this machine is given by R/r. **(3mks)**

(ii) Given that r = 5cm, R = 8cm, determine effort required to raise a load of 20N if the efficiency of the machine is 80%. **(4mks)**

(iii) It is observed that the efficiency of the machines increases when it is used to lift large loads. Give a reason for this. **(1mk)**

17. (a) State the Archimedes principles. **(1 mk)**

(b)A rubber envelope of a hydrogen filled balloon having volume of $2m^3$ is held in position by a vertical string as shown below.



The mass of the balloon is 1.3kg. Given that density of hydrogen is $0.1kg/m^3$ density of air is $1.3kg/m^3$. Find

(i) total weight of the balloon including the hydrogen gas. **(2 marks)**

(ii) the upthrust. **(2 marks)**

(iii) the tension in the string. **(2 marks)**

(c)A solid weighs 50N in air and 44N when completely immersed in water. Calculate

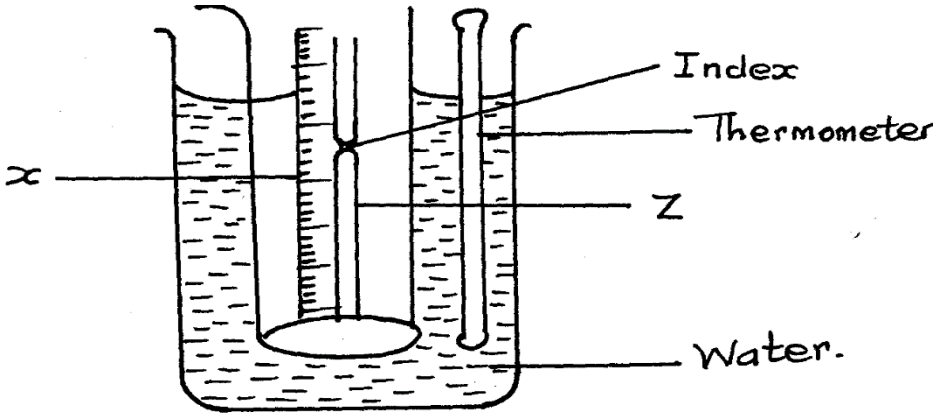
(i) relative density of the solid. **(2 marks)**

(ii) density of the solid. **(2 mrks)**

18. (a)Two identical containers A and B are placed on a bench, container A is filled with oxygen gas and B with hydrogen gas such that the two gases have equal masses. If the containers are maintained at the same temperature, state with a reason the container which pressure is higher.

(2 mks)

b) The fig below shows a set-up of an experiment used to investigate Charles's law



(i) Name the parts labeled X and Z **(1mk)**

X……..

Z…….

(ii) State the measurements to be taken in this experiment **(2mk)**

……

……

(iii) Explain how the readings taken in (ii) above may be used to investigate Charles law **(2mks)**

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(iv) State two purposes of mercury index **(2mks)**

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v) A constant mass of hydrogen gas occupies a volume of $4.0cm^3$ at a pressure of $2.4x\ 10^5$ Pa and temperature of 288K. Find its volume at a pressure of $1.6xl0^5$Pa when the temperature is 293K **(3mks)**

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KCSE 2025 MOKASA MOCK EXAM

(MOI GIRLS-KABARAK-SACHO SERIES 2)

PHYSICS

232/2

PAPER 2 (THEORY)

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education. (KCSE)

INSTRUCTIONS TO THE CANDIDATES:

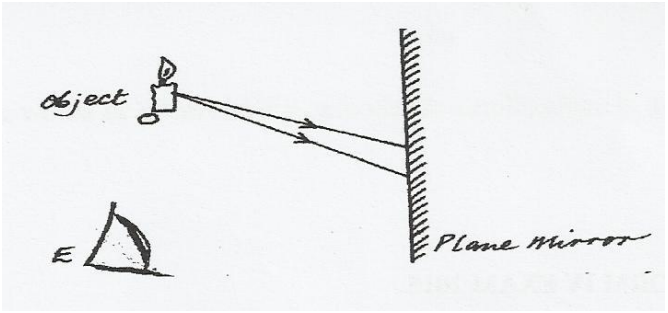
- *Write your name and index number in the spaces provided above*
- *This paper consists of two sections A and B.*
- *Answer all questions in section A and B in the spaces provided.*
- *All working must be clearly shown in the spaces provided.*
- *Mathematical tables and non programmable silent electronic calculators may be used.*
-

For Examiners' Use Only

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1-13	25	
B	14	12	
	15	11	
	16	11	
	17	08	
	18	11	
	19	09	
	TOTAL	80	

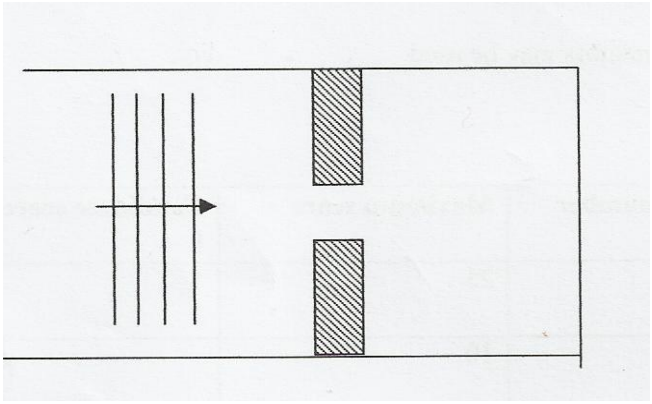
SECTION A: (25 MARKS)

1. Figure 1 below shows an object O placed in front of a plane mirror.



On the diagram, draw rays to locate the position of the image I, as seen from the eye, E**(2 marks)**

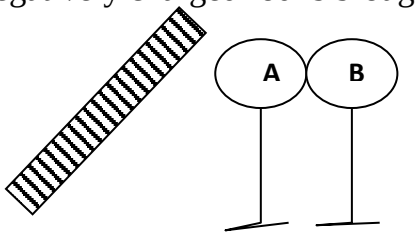
2. The figure 2 below water waves of different wave length incident on aperture which is greater than the wave length of the wave.



Complete the diagram to show the pattern of the wave beyond the aperture. **(1 mark)**

3. Two identical metal spheres **A** and **B** each standing on an insulating base are in contact.

A negatively charged rod is brought near sphere **A** as shown in the figure 3 below.



In what way will sphere **A** differ from **B** if it is separated while the rod is near?

4. A metal iron has work function of 6.8×10^{-19}J. Calculate the minimum frequency of light that can cause photoelectric emission. (Take h = 6.63×10^{-34} Js) **(2 Marks)**

5. The figure 4 below shows a rectifier circuit for an alternating current input.



(a) On the circuit, indicate the flow of current to illustrate rectification. **(1 Mark)**

(b) Sketch a graph to show how the voltage across R varies with time. **(2mks)**

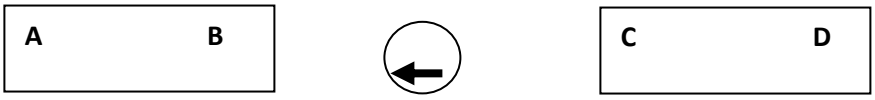
6. The image formed by a convex mirror is virtual. State two other characteristics of image formed by the convex mirror. (**2 Marks)**

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7. Figure 5 below shows a plotting compass placed between two strong magnets.

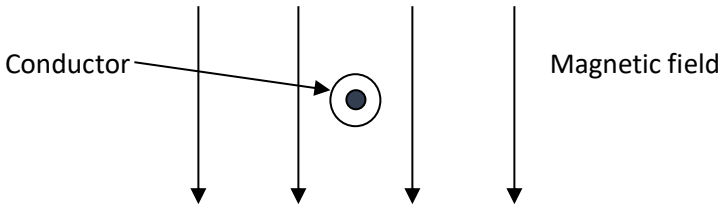
Fig. 5



(I) Give the polarity of the end **D** of the right hand magnet. **(1mk)**

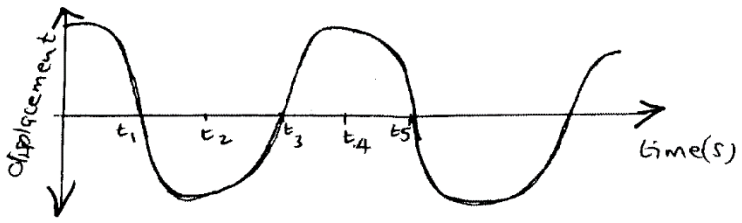
(II) Draw on the diagram the resulting magnetic field pattern between B and C. **(2mks)**

8. Figure 6 below shows a conductor in a uniform magnetic field carrying current in the direction shown.



Indicate on the diagram the direction of motion of the conductor. **(1mk)**

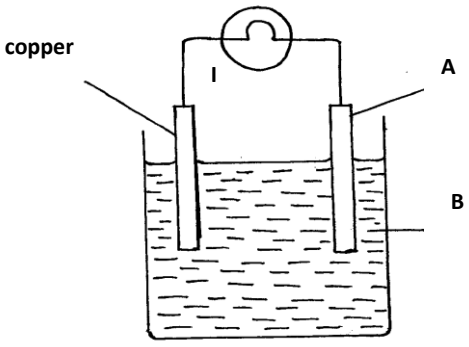
9. The figure 7 below shows a wave profile for a wave whose frequency is 2HZ



Determine the value of t_3(s) **(2mks)**

10. State Lenz's law of electromagnetic induction **(1mk)**

11. The figure below 8 below shows a simple cell.



Use the information on the figure to answer the questions below.

(a) Name the parts labeled **A** and electrolyte **B.** **(2mks)**

A

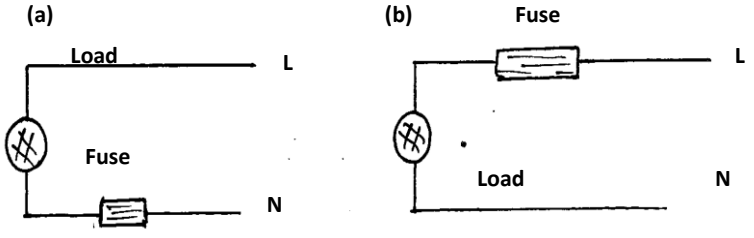
B

(b) It is observed that the bulb goes off after a short time. Explain this observation **(1mk)**

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12. The figure 9 below shows how a fuse may be connected in electric current



In either case the fuse blows out but (a) is dangerous while (b) is not. Explain **(2mks)**

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13. The figure shows part of electromagnetic spectrum

Ultra violet rays	**Micro waves**	**X-rays**	**Red light**

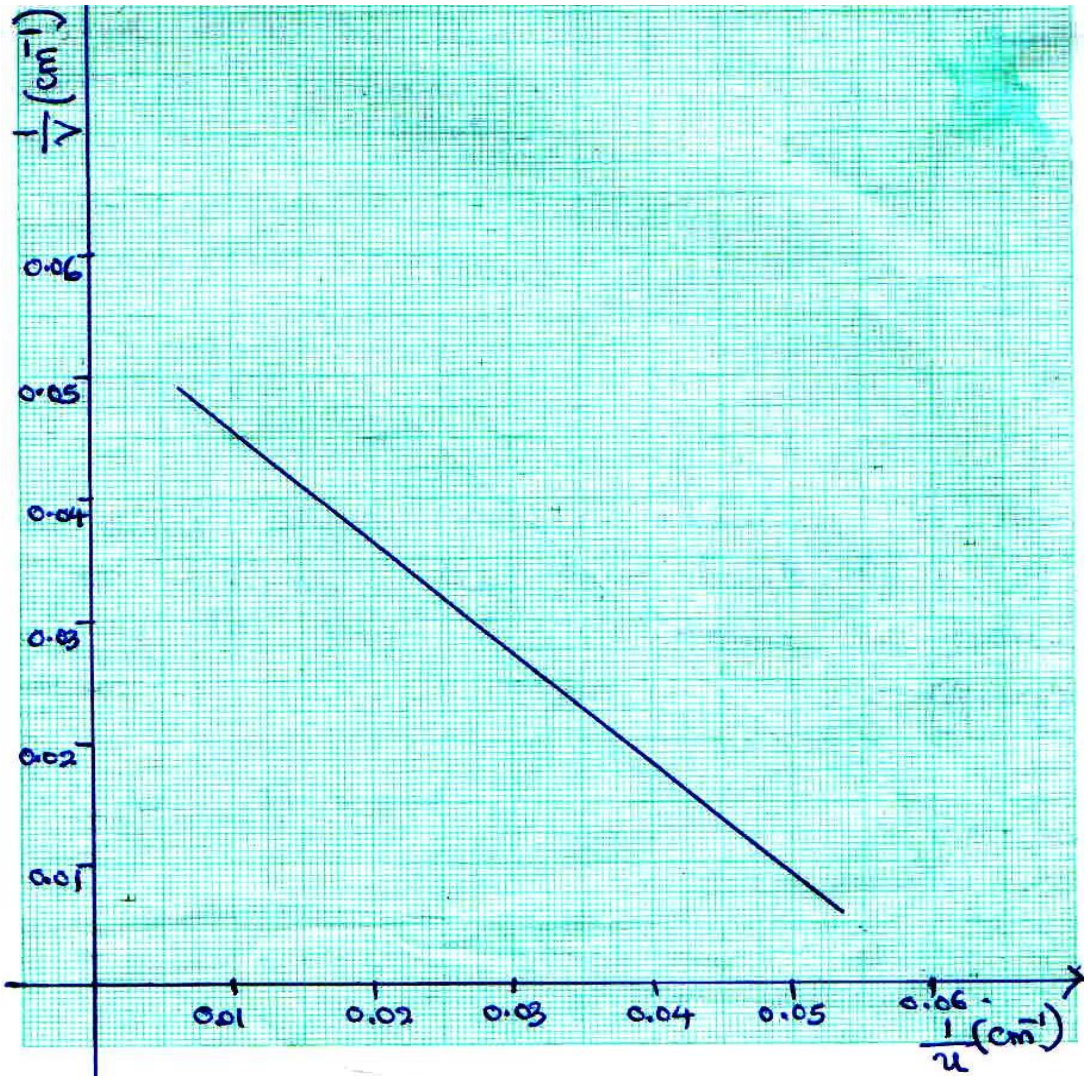
Arrange the electromagnetic waves in the order of decreasing energy. **(1mk)**

SECTION II: (55 MARKS)

ANSWER ALL QUESTIONS IN THIS SECTION

14. (a) The graph below shows values obtained in an experiment to determine the focal length of a convex lens. Use the graph to determine the focal-length of the lens.(2mks)

GRAPH OF $\frac{I}{u}$ AGAINST $\frac{I}{V}$



(b) An object is placed 30cm in front of a converging lens of focal length 20cm.

(i) By calculation determine the position of the image. **(2 mks)**

(ii) State the nature of the image **(1 mk)**

(c) A current of 13A flows through a heating element of resistance 8.5Ω for 1.5 minutes. Calculate the quantity of heat supplied. **(3mks)**

(d) A house has five rooms with 240V, 60W bulbs. If the bulbs are switched on from 7.00p.m. to 10.30p.m.

a. Calculate the power consumed per day in Kilowatt-hours. **(2mks)**

b. Find the cost per week for lighting these rooms at Kshs. 6.70 per unit. **(2mks)**

15. (a) State **two** advantages of a C.R.O as a voltmeter **(2mks)**

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……

……

(b) A television tube is a cathode ray tube modified. State two modifications **(2mks)**

……

……

……

(c) State the functions of the following parts of a C.R.O **(3 mks)**

(i) Grid

(ii) X-plates

(iii) Fluorescent screen

(d) **Figure15** shows the parts of an x-ray tube.

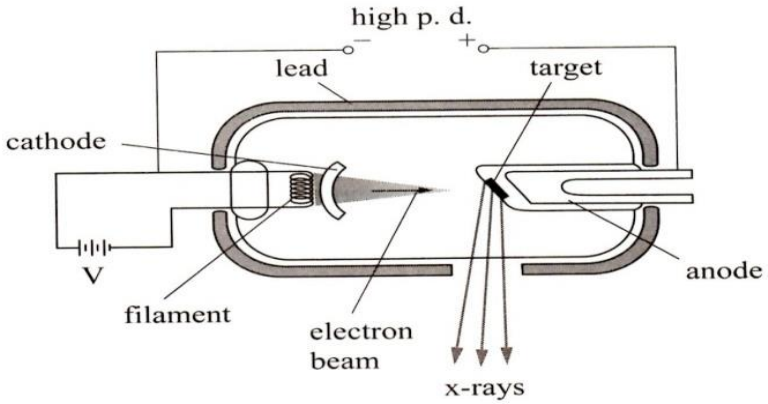


Figure 15

a) ***Explain*** why:

i) The cathode is concave shaped **(1mk)**

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ii) A high potential difference is applied between the cathode and the **anode** **(1mk)**

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iii) Most of the tube is surrounded by lead. **(1mk)**

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iv) The target of X-ray tube is made of metals of high melting point**.** **(1mk)**

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16. (a) Define Radio-activity **(2mks)**

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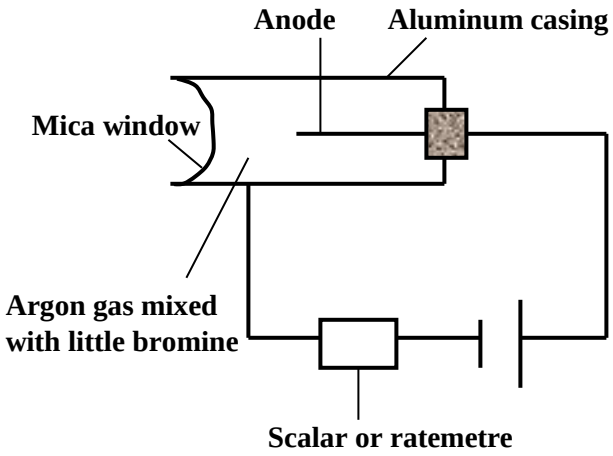
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(b) When carrying out experiments with radioactive substances the source should never be held with bare hands but with forceps. Explain? **(1mk)**

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c) The figure below shows a G.M tube.



i) What is the purpose of the mica window? **(1mark)**

ii) What is the purpose of the bromine **(1mark)**

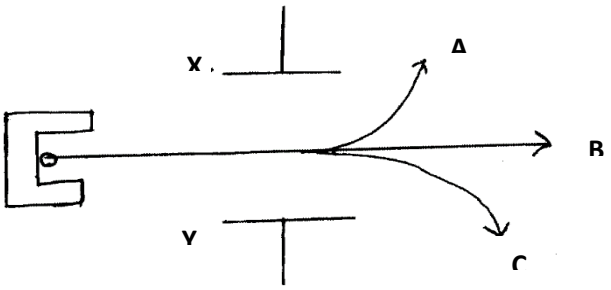
iii) Briefly explain how it works. **(2marks)**

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(e) The diagram in the figure below shows paths taken by three radiations **A,B** and **C** from a radioactive isotope through an electric field.

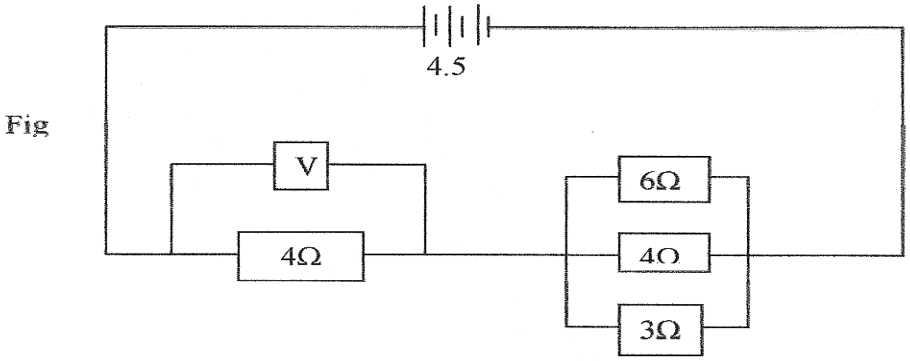


(i) State the charge on plate **Y** **(1mk)**

(ii) Identify the radiations **A** and **C** **(2mks)**

(iii) Give a reason why **C** deviates more than **A** **(1mk)**

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



Fig

Calculate the effective resistance of the circuit and hence the voltmeter reading **(4mks)**

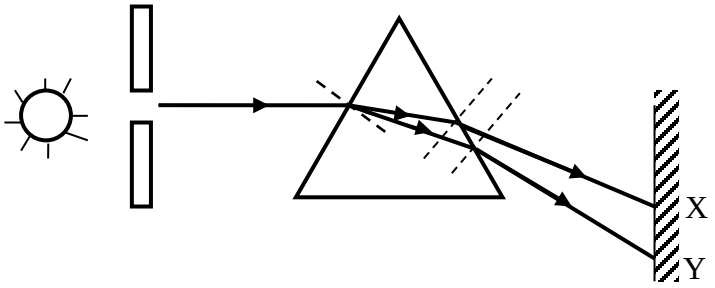
(b) An echo sounder of a ship received the reflected waves from a sea bed after 0.20s.

(i) Determine the depth of the sea bed if the velocity of sound in water is 1450m/s **(2mks)**

(ii)When the ship above passes over a sunken reef, the echo sounder receives an echo after 0.16s. Determine the height of the sunken reef **(2mks)**

(c)A step-down transformer has 400 turns in the primary coil and 20 turns in the secondary coil. A 50Ω resistor is connected to the secondary output. If the effective primary voltage is 240v, determine the current through the 50 Ω resistors. **(3mks)**

18 (a) The diagram below shows a narrow beam of white light onto a glass prism.

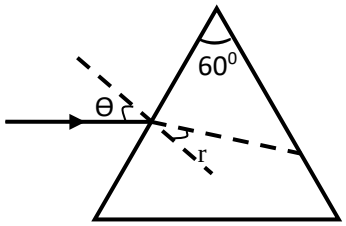


(i) What is the name of the phenomenon represented in the diagram? **(1 mk)**

(ii) Name the colour at X and Y **(1 mk)**

(iv) What is the purpose of the slit **(1 mk)**

(b) The figure below shows the path of ray of yellow light through a glass prism. The speed of yellow light in the prism is 1.8×10^8 m/s



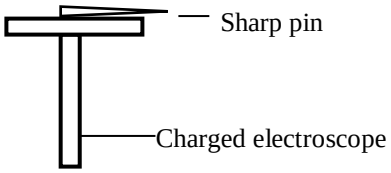
(i) Determine the refractive index of the prism material (Speed of light in vacuum, $C = 3.0 \times 10^8$ m/s) **(2 mks)**

(ii) Show on the same diagram, the critical angle C and hence determine its value. **(3 mks)**

(iii) Give that $r = 31.2^0$ determine the angle θ **(3 mks)**

19. (a) Define capacitance **(1 mk)**

(b) In the figure below, a sharp pin is fixed on a cap of a leaf of the electroscope. The electroscope is highly charged and then left for some time.



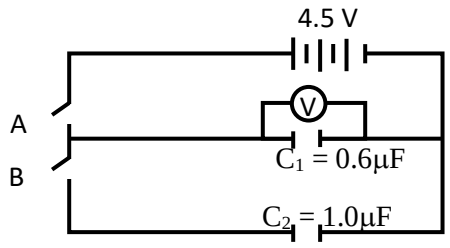
State and explain the observation made after sometime **(2 mks)**

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(c)The figure below shows a circuit where a battery of e.m.f. 4.5V, switches A and B, two capacitors C_1 =0.6μF and C_2 = 1.0μF and a voltmeter are connected.



(i) Determine the charge on C_1 when both switch A is closed and switch B is open.(**2 mks)**

(ii) What is the effective capacitance when both switches are closed? **(2 mks)**

(d) State two ways in which the capacitance of a parallel plate capacitor can be reduced**.(2 mks)**

KCSE 2025 MOKASA MOCK EXAM

(MOI GIRLS-KABARAK-SACHO SERIES 2)

PHYSICS

232/3

PAPER 3 (PRACTICAL)

TIME: 2½ HOURS

SCHOOL…… SIGN……

Kenya Certificate of Secondary Education. (KCSE)

INSTRUCTIONS TO SCHOOLS

QUESTION 1

Each student should be provided with the following: -

1. Two 100g masses with a hook.
2. Two strings 30cm long.
3. A metre rule.
4. 25cm high knife edge.
5. 250ml beaker with salt solution (50g salt dissolved in 200ml of water)
6. 250 ml empty measuring cylinder
7. Water

QUESTION 2

- 100cm long wire mounted on the mm scale and marked X, (gauge 32) or diameter 0.25mm
- 80cm long wire marked W of diameter 0.35mm
- 10ohm carbon resistor marked R
- Centre zero galvanometer
- Two Jockeys / Crocodile clips
- 9 connecting wires 3 of which are at least 60cm and with crocodile clips at one end.
- Micrometer screw gauze (to be shared)

KCSE 2025 MOKASA MOCK EXAM

(MOI GIRLS-KABARAK-SACHO SERIES 2)

PHYSICS

232/3

PAPER 3 (PRACTICAL)

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education. (KCSE)

INSTRUCTIONS TO CANDIDATES

- Write your **Name, Index number** and **Admission number**in the spaces provided above.
- This paper consists of **Two** parts (Question 1 and Question 2)
- Answer all the questions in the spaces provided
- All working must be clearly shown.
- Mathematical tables and electronic calculators may be used

For Examiner's Use Only

Question 1	**a**	**a(i)**	**a (ii)**	**b**	**b(i)**	**(iv)**	**TOTAL**
	3	½	½	3	**5**	**2**	
Question 2	**a (i)**	**a(ii)**	**b**	**c**	**d**		
	1	**2**	**6**	**5**	**3**		
GRAND TOTAL							

QUESTION 1

You are provided with the following:

- Salt solution in a 250ml container
- Two identical cylindrical 100g masses
- A string
- A metre rule
- Knife edge
- Two pieces of thread.
- 250 ml empty measuring cylinder
- Water 100ml.

Procedure

(a) Determine the volume V, of one of the masses by using the apparatus provided. Record the volume, V.

V =……..... **(1mark)**

Explain how you have determined the volume, V. **(2marks)**

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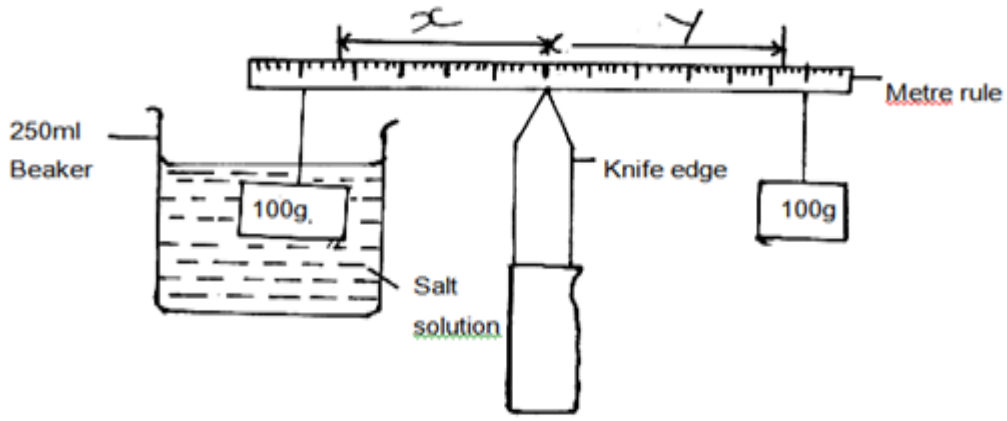
……

i) Determine the Centre of gravity of the metre rule

Centre of gravity =…… cm **($^1/_2$mark)**

(ii) Arrange the apparatus as shown in diagram 1 below. Show that the metre rule is at equilibrium, starting with X = 100mm.

Diagram 1



Measure and record the length, Y.

Y……Cm($^1/_2$mark)

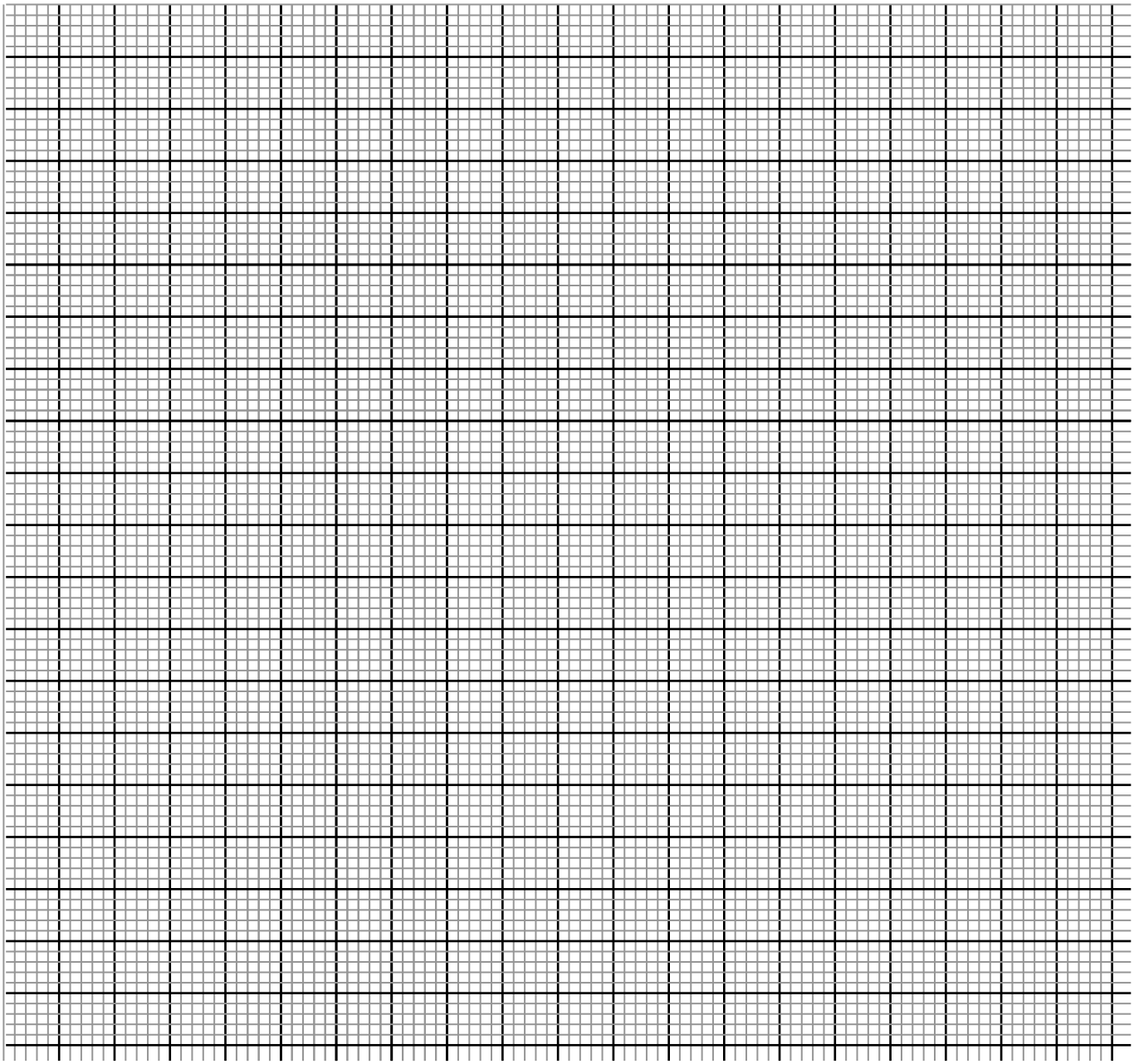
(b) Repeat procedure a (ii) with the following values of X and fill table 1 below.

Table 1

X (mm)	100	150	200	250	300	350
Y(mm)						

(3marks)

(i) On the grid provided, plot a graph of Y(cm) (y-axis) against X(cm). **(7marks)**



(ii) Determine the gradient, N, of the graph. **(2marks)**

……

……

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……

iii) The gradient, N, given by the equations N = F/W, where F is the apparent weight of the mass in the salt solution and W is the actual weight of the mass. Calculate the value F and the up thrust, U.

F=…… (1mark)

U=…… (1mark)

……

iv) Hence determine the density, rho (p) of the salt solution. **(2marks**

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QUESTION 2

You have been provided with the following apparatus

- Resistor
- Cell size D new
- Cell holder
- Two resistor wires mounted on mm scales, marked W and X.

a) Proceed as follows.

i) Measure and record the diameter of wire W

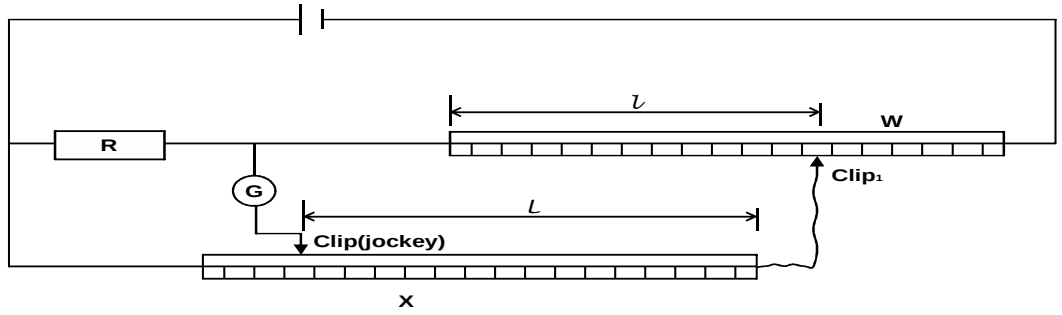
D =..... mm(1mark)

i) Use the information to calculate the cross-sectional area of the wire. (A)

A =..... m² **(2marks)**

ii) Set up the apparatus as shown in the diagram 2 below.

Diagram 2



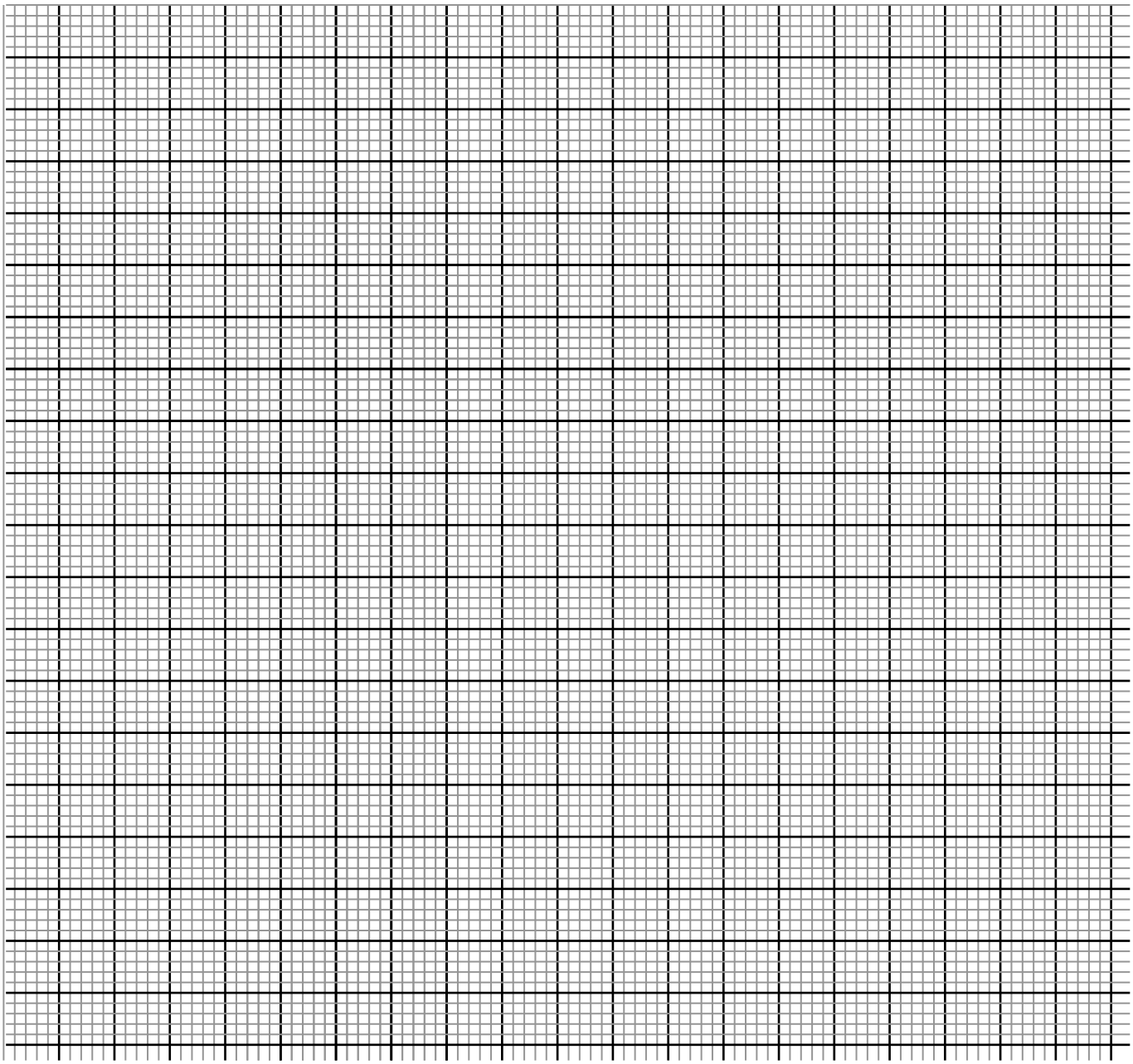
iv) Move the crocodile clip along W such that the length l = 10cm, then move the jockey to obtain a balance point along the wire X. Record the length L the value of the balance point along wire X.

b) Repeat steps (iii) for values of l = 20cm, 30, 40, 50, 70 and 80cm and complete the table 2.

l (cm)	10.0	20.0	30.0	40.0	50.0	70.0	80.0
L (cm)							
$\frac{1}{L}(cm^{-1})$							

(6 marks)

c) In the graph provided below plot a graph of l (cm) **against** $\frac{1}{L}(cm^{-1})$ **(5 marks)**



d) From the graph find the slope S of your graph. **(3 marks)**

……

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e) From the graph state the value of $\frac{1}{L}(\text{cm}^{-1})$ when l (cm)= 0 **(1 mark)**

……

……

……

……

f) Given that $l = \frac{100R}{JL} - \frac{R}{j}$ find the value of J when R = 10 ohms. **(2 marks)**

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KCSE 2025 MOKASA MOCK EXAM

(MOI GIRLS-KABARAK-SACHO SERIES 2)

MATHEMATICS

121/1

PAPER 1

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

INSTRUCTIONS TO CANDIDATES

1. *Write your name and index number in the spaces provided at the top of this page.*
2. *This paper consists of two sections: Section I and Section II.*
3. *Answer ALL questions in section I and ONLY FIVE questions from section II*
4. *Show all the steps in your calculations, giving your answers at each stage in the spaces below each question.*
5. *Marks may be given for correct working even if the answers are wrong.*
6. *Non – Programmable silent electronic calculators and KNEC mathematical tables may be used, except where stated otherwise.*

FOR EXAMINERS USE ONLY

Section I

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16

Section II

17	18	19	20	21	22	23	24	TOTAL

GRAND TOTAL

SECTION 1: *ANSWER ALL QUESTIONS IN THIS SECTION*

1. Evaluate $5\frac{1}{2} - 1\frac{1}{7}\left(1\frac{1}{5} + \frac{9}{10}\right) + \frac{1}{3}$ of $\left(\frac{2}{3} \div \frac{5}{6}\right)$ **(3mks)**

2. Simplify

$$\frac{6a^2 + 7ab + 2b^2}{4a^2 - b^2}$$ **(3mks)**

3. A positive two digit number is such that the product of the digits is 20.When the digits are reversed , the number so formed is greater than the original number by 9.Find the number.

4. Three years ago,Juma was three times old as Ali.In two years time, the sum of their ages will be 62.Determine their current ages **(2 mks)**

5. A number n is such that when its divided by 3,7,11 or 13, the remainder is always one . Find the number n. **(2mks)**

6. The size of each Interior angle of a regular polygon is seven times the size of the exterior angle.Find the number of sides of the polygon. **(2 mks)**

7. Use reciprocal, square and square root tables to evaluate, to 4 significant figures, the expression. **(4 marks)**

$$\frac{2}{(0.5245)^2} - \frac{5}{\sqrt{363.4}}$$

8. The surface area of two similar bottles are $12cm^2$ and $108cm^2$ respectively. If larger one has a volume of $810cm^3$.Find the volume of the smaller one. **(3mks)**

9. A solid block in the shape of a cylinder has a height of 14cm and weighs 22kg. If it is made of material of density $5g/cm^3$, find the radius of the cylinder. Take $\pi = \frac{22}{7}$ **(3mks)**

10. Find the value of x in the following equations: **(3mks)**

$$(4)^{-2x} = (1/32)^{3x-4}$$

11. A line Ax +3y-6=0 is perpendicular to the line 5x+7y-k=0. If 5x+7y-k=0 passes through the point (4,3). Determine the values of A and K **(4mks)**

12. Agnes paid rent which was 1/10 of her net salary. She used ½ of the remaining amount to make a down payment for a plot. She gave her mother Kshs. 2,500 and did shopping worth Kshs. 7,500 for herself. She saved the remainder which was Ksh. 12,500. How much was the down payment that she made**.** **(4mks)**

13. A watch which loses a half-minute every hour was set to read the correct time at 0545h on Monday. Determine the time, in the 12 hour system, the watch will show on the following Friday at 1945h. **(3 marks)**

14. Use the exchange rates below to answer this question.

	Buying	Selling
1 US dollar	63.00	63.20
1 UK £	125.30	125.95

A tourist arriving in Kenya from Britain had 9600 UK Sterling pounds (£). He converted the pounds to Kenya shillings at a commission of 5%. While in Kenya, he spent ¾ of this money. He changed the balance to US dollars after his stay. If he was not charged any commission for this last transaction, calculate to the nearest US dollars, the amount he received. **(3 marks)**

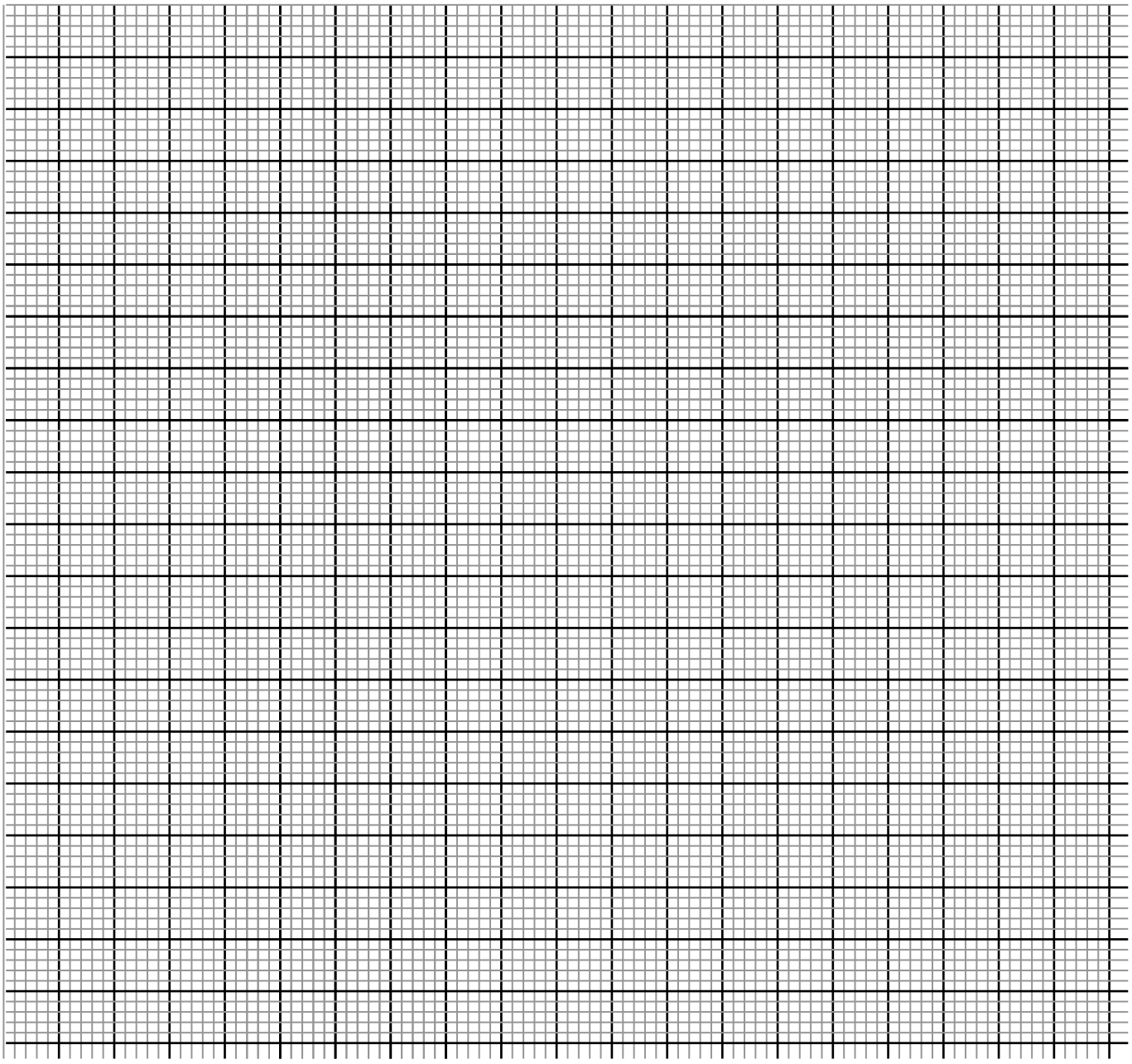
15. Solve the following inequality and show your solution on a number line**.** **(3mks)**

$4x - 3 \leq \frac{1}{2}(x + 8) < x + 5$

16. The table below shows marks obtained by a form four class in a certain school.

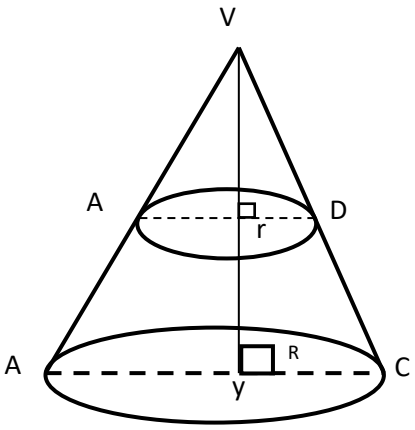
Marks (x)	$8 \leq X < 9$	$9 \leq X < 11$	$11 \leq X < 13$	$13 \leq X < 16$	$16 \leq X < 20$	$20 \leq X < 21$
No. of contents y	2	6	8	3	2	1

Use the table to represent the information on a histogram. **(3 Marks)**



SECTION B: ATTEMPT ANY FIVE QUESTIONS

17. The figure below shows a cone from which a frustum is made. A plane parallel to the base cuts the cone two thirds way up the vertical height of the cone to form frustum ABCD. The top surface radius of the frustum is labelled r and the bottom radius R.



(a) Find the ratio r:R. **(1 Mark)**

(b) Given that r = 7cm, find R. **(2 Marks)**

(c) If the height VY of the original cone is 45cm. Calculate to the nearest whole number the volume of the frustum. (Take $\pi = \frac{22}{7}$) **(4 Marks)**

(d) The frustum represents a bucket which is used to fill a rectangular tank measuring 1.5m long, 1.2m wide and 80cm high with water. How many full buckets of water are required to fill the tank. **(3 Marks)**

18. The displacement h metres of a particle moving along a straight line after t seconds is given by $h = -2t^3 + {}^3/_2\, t^2 + 3t$

(a) Find the initial acceleration. **(3 marks)**

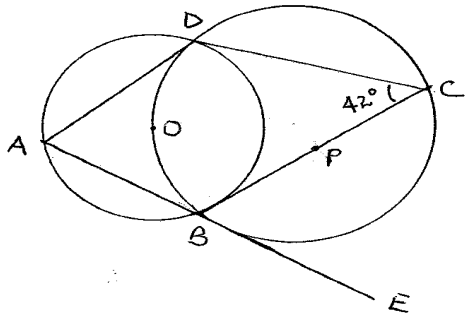
(b) Calculate

(i) The time when the particle was momentarily at rest. **(3 marks)**

(ii) Its displacement by the time it comes to rest momentarily. **(2 marks)**

(c) Calculate the maximum speed attained. **(2 marks)**

19. (a) The figure below shows two intersecting circles. Circle DCB has its centre P while DAB centre O.



Giving reasons, determine the size of:

a) Angle CBD **(2 marks)**

b) Angle ODB **(2 marks)**

c) Angle BAD **(2 marks)**

d) Angle ABC **(2 marks)**

e) Angle ODA **(2 marks)**

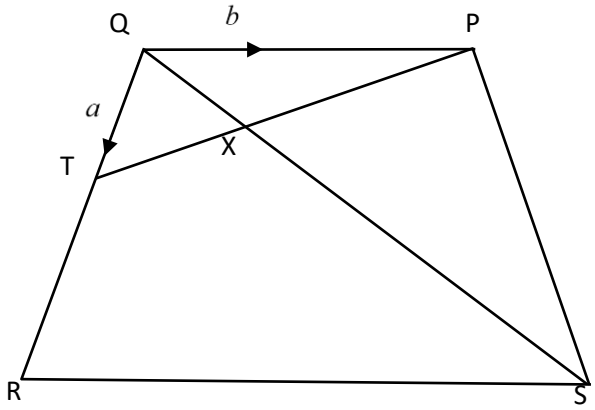
20. A car leaves town X for town Y 120 km away at an average speed of 80 km/hr at 8.30 a.m. At the same time a bus leaves town Y for town X at an average speed of 60 km/hr. At 8.45 a.m., a cyclist leaves town Y for town X at an average speed of 30 km/hr.

i. Calculate the time when the bus meets the car to the nearest minute**.** **(3 marks)**

ii. Calculate the distance between the car and the bus by the time the cyclist meets the car. **(4 marks)**

iii. If the bus upon reaching town X stops for 10 minutes then starts its journey back to Y, Calculate how far from X the bus meets the cyclist. **(3 marks)**

21. In the figure below, PQRS is a trapezium. Line PT and QS intersect at X and line QP is parallel to RS.***QT = a***,***QP = b***,*QR* = ***3QT,RS = 2QP,QX = tQS***, and ***PX = kPT*** where *k* and t are constants.



a) Find in terms of ***a***and***b***:

(i) **PT** **(1 mark)**

(ii) **PX** **(2 marks)**

(iii) **QS** **(1 mark)**

b) Express **QX** in terms of: **(2 marks)**

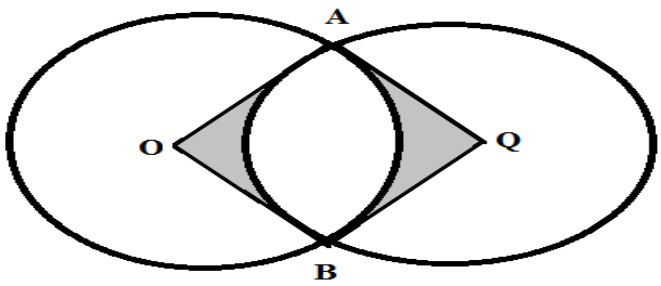
(i)**a, b,** and ***t*.**

(ii)**a, b** and*k*

(c) Determine the value of *k* and *t.* **(3 marks)**

(d) Find the ratio PT:TX **(1 mark)**

22. Two circles with centres O and Q and radii 8cm intersect at points A and B as shown below.



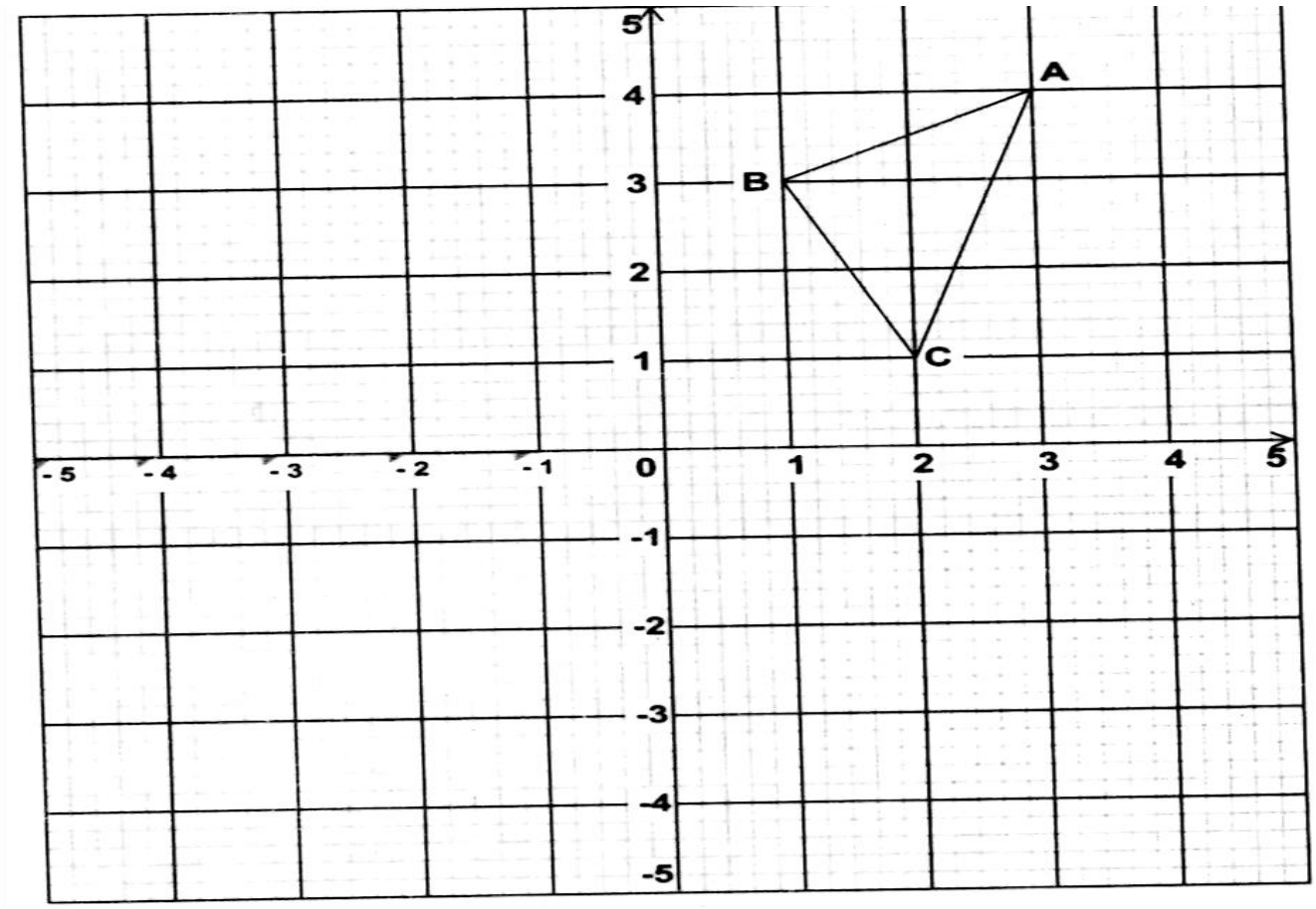
Given that the distance between O and Q is 12cm and that the line AB meets OQ at X, find:

(a) the length of the chord AB. **(3marks)**

(b) the reflex angle AOB. **(3marks)**

(c) the area of the shaded region. $\pi = 3.142$ **(4marks)**

23. The diagram below shows a triangle ABC with A (3, 4), B (1, 3) and C (2, 1).



a) Draw △A ′B′C′ the image of ABC under a rotation of $+90^0$ about (0, 0). **2mks**

b) Draw △ A″B″C ″ the image of A ′B′C ′under a reflection in the line y=x. **2mks**

c) Draw △ A‴B‴C‴ the image of Δ A″B″C″ under a rotation of -90^0 about (0, 0). **2mks**

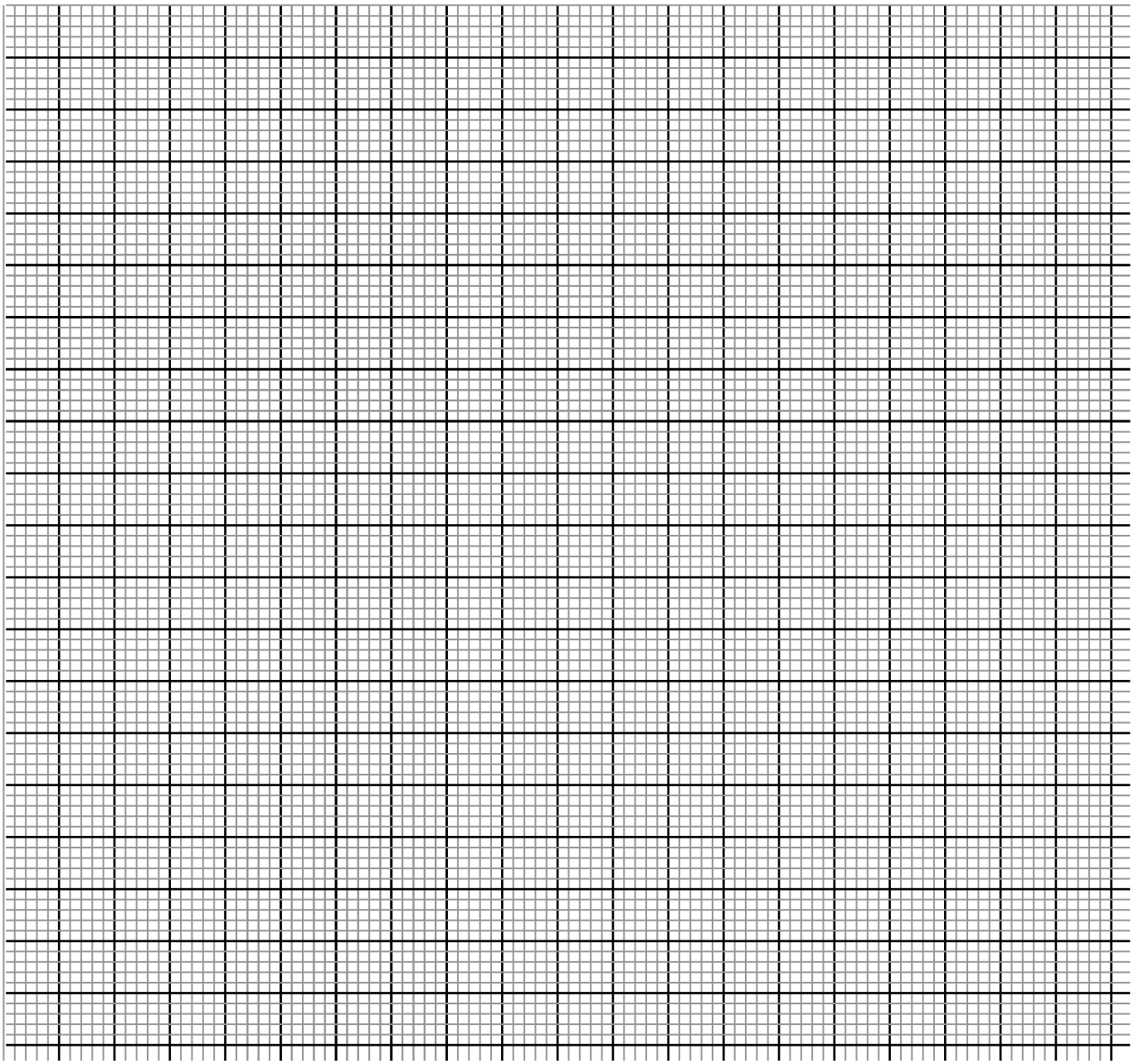
d) Describe a single transformation that maps △ABC onto △ A‴B‴C‴. **2mks**

e) Write down the equations of the lines of symmetry of the quadrilateral BB″A‴A′ **. 2mks**

24. Complete the table below for $y = 14 - 5x - 2x^2$ for the domain $-5 \leq x \leq 3$ **(2 marks)**

x	**-5**	**-4**	**-3**	**-2**	**-1**	**0**	**1**	**2**	**3**
14	14	14	14	14	14	14	14	14	14
-5x	25	20			5	0	-5		-15
$-2x^2$	-50		-18		-2	0	-2	-8	
y	-11				17	14	7		

(b) Draw the graph of $y = 14 - 5x - 2x^2$ for the domain $-5 \leq x \leq 3$ **(3marks**



(c) Use your graph to solve the equations:

(i) $2x^2 + 5x - 14 = 0$ **(2mark)**

(ii) $4 - 5x - 2x^2 = 0$ **(2marks)**

d) **W**rite down and simplify the equation in x which would be solved by drawing the line y=3x+2 on the same axes as (b) above**.** **(1mark)**

KCSE 2025 MOKASA MOCK EXAM

(MOI GIRLS-KABARAK-SACHO SERIES 2)

MATHEMATICS

121/2

PAPER 2

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education. (KCSE)

INSTRUCTIONS TO CANDIDATES

(a) Write your name, admission number class and index 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**; Section I** and **Section II.***
*(d) Answer **all** the questions in **Section I** and any **five** questions from **Section II***
(e) Show all the steps in your calculations, giving your answers 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.

FOR EXAMINER'S USE ONLY

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

For Marking Schemes Contact 0746 222 000 / 0742 999 000

SECTION I (50 MARKS)

Answer all questions in this section

1. Using logarithm tables only, evaluate

$$\sqrt[3]{\frac{849.6 \times 2.41}{3941}}$$

(4 marks)

2. The transformation represented by the matrix

$M = \begin{pmatrix} 0 & 1 \\ 3 & 1 \end{pmatrix}$ maps a triangle **ABC** onto another triangle $\mathbf{A^1\ B^1\ C^1}$ of area $36cm^2$.

Find the area of triangle **ABC** **(3mks)**

3. Simplify $\left(1+\sqrt{3}\right)\left(1-\sqrt{3}\right)$ and hence evaluate $\frac{1}{1+\sqrt{3}}$ to 3 significant figures given $\sqrt{3}=1.7321$. **(3 marks)**

4. If (M + n) : (M – n) = 8: 3. Find the ratio M: n. **(3 marks)**

5. Find the values of x if; **(3 mks)**

$\log_{16}(7x-14)-\log_{16}(6-3x)=\frac{3}{2}$

6. Make q the subject of the formula:

$$P = \sqrt[3]{\frac{nq - m}{q}}$$ **(3 marks)**

7.The 3rd term of a geometric sequence is 20 and the 16th term is -160 Calculate the 8th term the sequence **(3mks)**

8. If A = 2.3, B = 8.7 and C = 2.0 find the % error in $\frac{A + B}{C}$. **(3 marks)**

9. Simplify:

$$\frac{2\chi^2 + \chi - 6}{\chi^2 - 4} + \frac{1}{\chi - 2}$$ **(3 marks)**

10. Obtain the binomial expansion of $(1 - 2\chi)^5$ and use your expansion to evaluate $[0.98]^5$ correct to 5d.p. **(3 marks)**

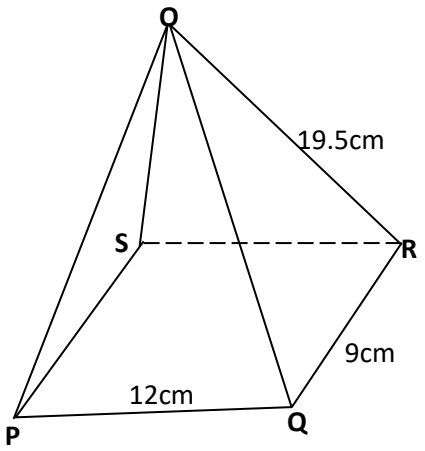
11. After being given a discount of sh.5 on every book James bought, he was able to buy 2 more books than before he was given the discount, with sh.200. What was the price of one book before the discount? **(4 marks)**

12. Find the centre and radius of a circle with equation:

$\chi^2 + y^2 - 6\chi + 8y - 11 = 0$ **(3 marks)**

13. A car was valued at Ksh.3000000 in January 2000. Each year its value decreased by 12% of its value at the beginning of the year. Find the value of the car in January 2004 giving your answer correct to 4s.f. **(3 marks)**

14. The figure below is a pyramid of a rectangular base PQRS of length 12cm and width 9cm. The slanting edge has a length of 19.5cm. Determine the angle PO makes with base PQRS



15. A point (-5, 4) is mapped onto (-1, -1) by a translation T. Find the image of (-4, 5) under the same translation. **(3 marks)**

16. The gradient of the curve $y = a\chi^2 + b\chi$ at the origin is equal to 8. Find the value of a and b if the curve has a maximum turning point at $\chi = 4$. **(3 marks)**

SECTION II: (50 MARKS)

*Attempt **ONLY FIVE** questions from this section.*

17. **M**r. Karambu is a civil servant in a ministry. He earns a monthly salary of sh.**N** and allowance of sh.1271.all taxable. He is entitled to a monthly relief of sh.1056. The table below shows the rates of taxation.

K£ P.a	Rates %
1 - 5808	10
5.809 – 11280	15
11281 - 16752	20
16753 – 22224	15
22225 and above	30

When his salary was increased by 50% the net tax increased by 66.25 % to sh.9036 per month.

(a) What was his net tax in K£ p.a before the salary increase **(2mks)**

(b) Calculate his salary before the increase **(5mks)**

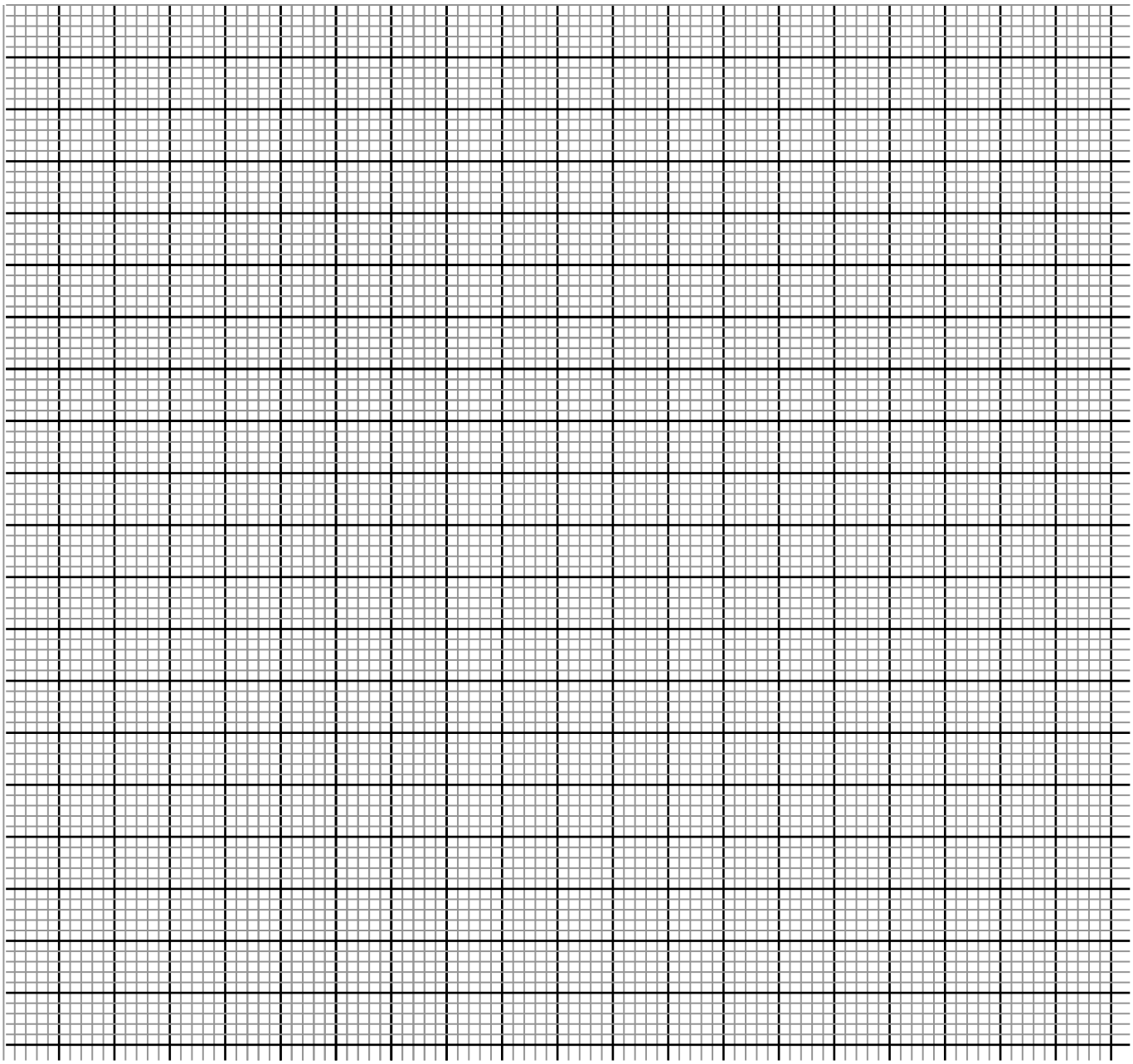
(c) Calculate the percentage increase in his net pay after the salary increase **(3mks)**

18. A transporter wishes to transfer 1000 bags of sugar to a go down. He has two types of lorries to use. FTR with a capacity of 80 bags and a canter with the capacity of 20 bags. The canter has to make at most twice as many trips as the FTR makes. The total number of trips made by both lorries must be less than 30, and the canter has to make more than 10 trips.

(a) Write down all the possible inequalities to represent this information (take trips made by FTR be **x** and trips made by canter be **y**) **(4mks)**

(b) Represent the information above on the grid provided **(3mks)**

(c) **The** transporter makes a profit of sh 1800 per trip on FTR and sh 1000 per trip on canter. Determine his maximum profit. **(3 mks)**



19. A plane S flies from a point P(40°N, 45°W) to a point Q(35°N, 45°W) and then onto a point T((35°N, 135°E).

(a)Given that the radius of the earth is 6370km, find the distance from P to Q in km**. (2 marks)**

(b) Find in nm;

(i)the shortest distance between Q and T. **(2 mrks)**

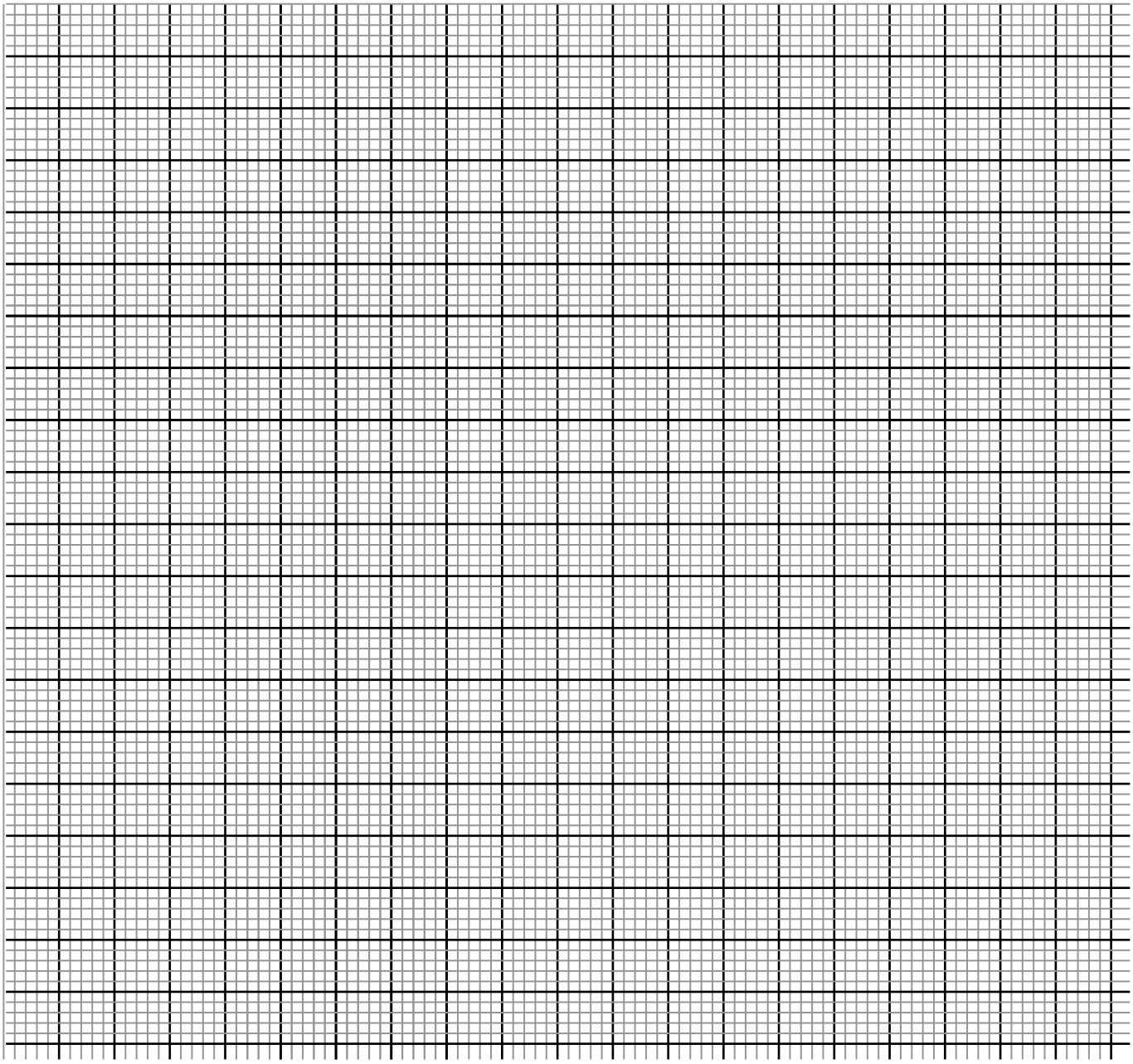
(ii) the longest distance between Q and T (to the nearest tens). **(2 marks)**

(c) Find the difference in time taken when S flies along the shortest and longest routes if its speed is 420 knots. **(4 marks)**

20. The data **below** shows the masses in grams of 50 potatoes.

Mass (g)	25 - 34	35 - 44	45 - 54	55 - 64	65 - 74	75 - 84	85 - 94
No. of potatoes	3	6	16	12	8	4	1

(a) On the grid provided draw a cumulative frequency curve for the data.(4 marks)



(b) Use the graph in (a) above to determine:

(i) The 60^{th} percentile mass. **(2 marks)**

(ii) Percentage of potatoes whose masses lie in the range 53g to 68g. **(3 marks)**

(iii) Median mass. **(1 mark)**

21. Matrix P is given by $\begin{pmatrix} 4 & 7 \\ 5 & 8 \end{pmatrix}$

(a) Find the inverse of P. **(2 marks)**

(b) Two Schools Theri and Kimathi purchased beans at sh.B per bag and maize at sh.M per bag. Theri purchased 8 bags of beans and 14 bags of maize for sh.47,600. Kimathi purchased 10 bags of beans and 16 bags of maize for sh.57,400.

(i) Form a matrix equation to represent the information above. **(2 marks)**

(ii) Use the inverse matrix of P to find the prices of one bag of each item. **(4 marks)**

(c) The price of beans later went up by 5% and that of maize remained constant. Theri bought the same quantity of beans but spent the same total amount of money as before on the two items.

State the new ratio of beans to maize. **(2 marks)**

22. Mr. Karanja owns a bicycle which he sometimes rides to go to work. Out of the 21 working days in a month he only rides to work for 18 days. If he rides to work the probability that he is bitten by a rabid dog is $\frac{4}{15}$ otherwise it is only $\frac{1}{13}$. When he is bitten by the dog the probability that he will get treatment is $\frac{4}{5}$ and if he does not get treatment the probability that he will get rabies is $\frac{5}{7}$.

(a) Draw a tree diagram to show the events. **(3 marks)**

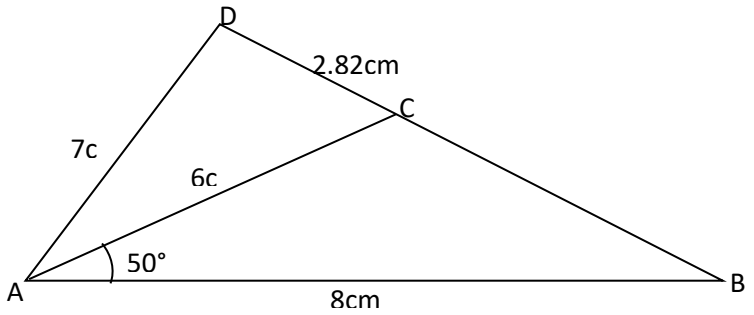
(b) Using the tree diagram in (a) above determine the probability that

(i) Karanja will not be bitten by a rabid dog. **(2 marks)**

(ii) He will get rabies. **(2 marks)**

(iii) He will not get rabies. **(3 marks)**

23. In the figure **below** (not drawn to scale) AB = 8cm, AC = 6cm, AD = 7cm, CD = 2.82cm and angle CAB = 50°.



Calculate (to 2d.p.)

(a) the length BC. **(3 marks)**

(b) the size of angle ABC. **(2 marks)**

(c) size of angle CAD. **(3 marks)**

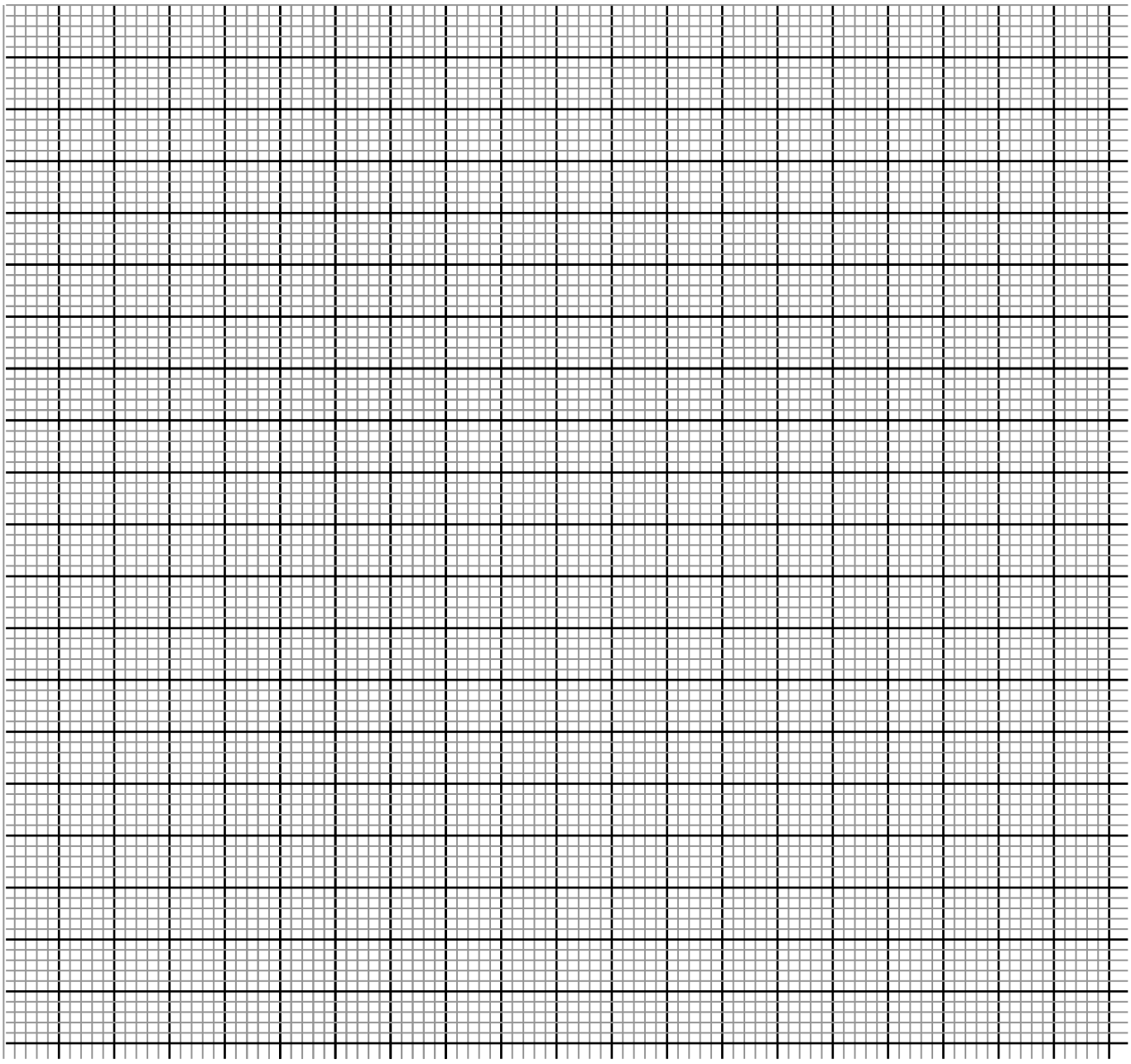
(d) Calculate the area of triangle ACD. **(2 marks)**

24. Complete the table below for the functions $y = \sin 3\theta$ and $y = 2\cos(\theta + 40^0)$ **(2 Marks)**

θ^0	0^0	10^0	20^0	30^0	40^0	50^0	60^0	70^0	80^0	90^0
$3\sin 3\theta$	0	1.50		3.00			0.00			-3.0
$2\cos(\theta + 40^0)$	1.53	1.29			0.35			-0.69		-1.29

(a) On the grid provided, draw the graphs of $Y = 3\sin 3\theta$ and $y = 2\cos(\theta + 40^0)$ on the same axis. Take 1 cm to represent 10^0 on the x-axis and 4 cm to represent 2 unit on the y – axis.

(5 marks)



(b) From the graph find the roots of the equation.

(i) $\frac{3}{4}$ Sin $3\theta = \frac{1}{2}$ Cos $(\theta + 40^0)$ **(2 Marks)**

(ii) 2 Cos $(\theta + 40^0) = 0$ in the range $0 \leq \theta \leq 90^0$ **(1 Mark)**

KCSE 2025 MOKASA MOCK EXAM

(MOI GIRLS-KABARAK-SACHO SERIES 2)

COMPUTER STUDIES

451/1

PAPER 1

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education. (KCSE)

INSTRUCTIONS TO CANDIDATES

1. *Write your name and Admission number in the spaces provided above*
2. *Answer all questions in section A*
3. *In section B,* ***answer question 16(compulsory)*** *and* ***any other three*** *questions*
4. ***Candidates should answer the questions in English.***

FOR EXAMINER'S USE ONLY

SECTION	QUESTION	CANDIDATE'S SCORE
A	1-15	
B	16	
TOTAL SCORE		

For Marking Schemes Contact 0746 222 000 / 0742 999 000

SECTION A (40 Marks)

Answer all questions in this section

1. Identify the computer generation that is associated with each of the following characteristics.

i) Use of computers that imitate human intelligence……**(1 mark)**

ii) Used of punched cards for data input……. **(1 mark)**

iii) Use of Large Scale integrated circuits ……. **(1 mark)**

iv) Use of cloud storage ……. **(1 mark)**

2. Distinguish between *line spacing* and *character spacing* as used in word processors.**(2 marks)**

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3. Although super computers have greater processing capabilities than main frame computers, large communications companies prefer main frame computers for management of their data and operations. State **two** reasons for this preference. **(2 marks)**

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4. After purchasing a laptop, Mary realized that it could not connect to the internet through a wireless access point. State **three** possible causes for the failure in connection **(3 marks)**

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5. Aisha found one of her favourite movies on a youtube channel. State **three** advantages of downloading the movie to the computer hard disk and watching it from there instead of streaming it live from the youtube channel. **(3 marks)**

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6. State **two** circumstances that necessitate encryption of data in computer systems **(2 marks)**

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7. A student saved a document in a memory card. Later on the memory card crashed and therefore the work got lost. State **three** precautions that the student should have taken to ensure that the work was not lost. **(3 marks)**

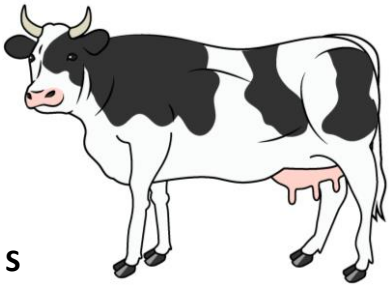
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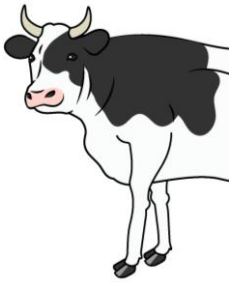
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8. Purity inserted a picture labelled **S** in a publication she designed as shown in the figure below.

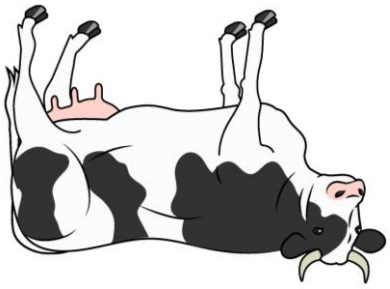


S

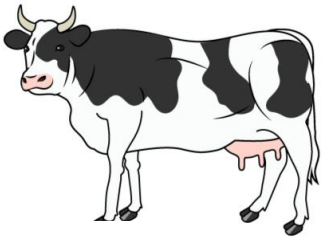
She applied different transformations to achieve the results labelled W, X and Y



W



X



Y

State the transformation applied in each case

W…… (1 mark)

X…….... (1 mark)

Y…… (1 mark)

9. Kennedy inserted a flash disk in a computer to print out a document stored in it but the error message "*USB not recognized*" appeared on the screen of the computer. State **two** possible causes of the error message. **(2 marks)**

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10. a) Ben noticed that a USB mouse in one of the desktop computers in the computer lab could not move the pointer on the screen. State **two** ways he could solve that problem **(2 marks)**

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b) Suzzie, a secretary at Achievers secondary school carries out her daily duties using computers and suffers repetitive strain injury. State **two** ways she would use to reduce repetitive strain injury. **(2 marks)**

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11. Sarah, a system analyst in Excel Company has decided to use document review in order to collect data necessary for developing a new information system for the company. State **three** reasons that could have influenced her decision to use this method. **(3 marks)**

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12. Explain **two** ways in which growth of the internet has contributed to an increase in computer crimes. **(2 marks)**

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13. When constructing a school's database, Mark set the data type "*number*" for the field "*marks"*. Name **three** field properties that he can set for this data type in order to limit values entered in the field. **(3 marks)**

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14. State **two** ways in which errors that occur during data processing are threat to data integrity. **(2 marks)**

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15. Wireless Fidelity (WiFi) has become one of the most popular modes of internet connection in recent days. State **two** reasons for this trend. **(2 marks)**

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SECTION B (60 Marks)

Answer question 16 (Compulsory) and any other three questions

16. a) State **three** characteristics of third generation languages that distinguish them from all other high level programming languages. **(3 marks)**

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b) Program documentation is categorized as either technical documentation or user –oriented documentation. Classify each of the following documentation components as either technical or user oriented.

i) Program flowchart **(1 mark)**

……

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ii) Error handling procedures **(1 mark)**

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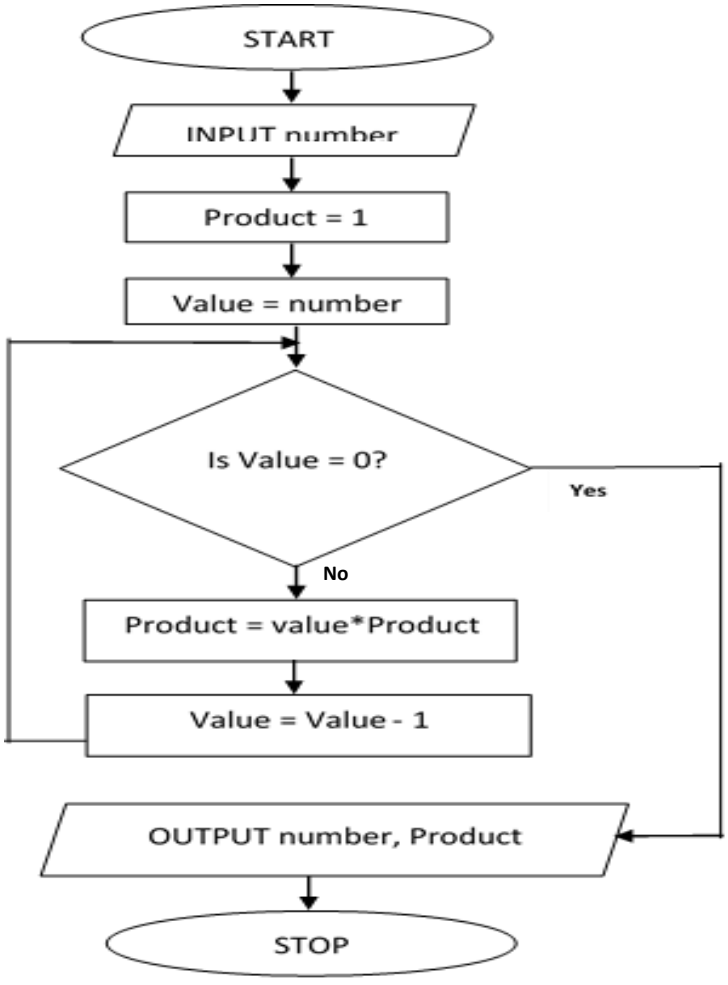
……

iii) Source code **(1 mark)**

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c) The figure below shows a flowchart. Use it to answer the questions that follow:



i) Name the control structure used in the flowchart (**1 mark)**

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ii) Determine all the outputs of the flowchart if the input is the number is five **(3 marks)**

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iii) Write a pseudocode for the flowchart above **(5 marks)**

17. a) The table below shows items extracted from Computer Studies subject score calculations spreadsheet. Use it to answer questions (i) to (ii)

	A	B	C	D
1	**Paper**	**Weight**	**Score**	**Weighted Score**
2	Paper one	0.3	80	24
3	Paper two	0.4	70	28
4	Paper three	0.3	60	18
5				
6	**Average Weighted Score**			**22.66**

Using cell references only, write a function that may have been used to compute the following:

i) the weighted score in D3 **(2 marks)**

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ii) Average weighted score in cell D6. **(2 marks)**

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b) Explain how social engineering is a threat to data security **(2 marks)**

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c) **State** the **function** of each of the following parts of a spreadsheet window

i) Formula bar **(1 mark)**

……

……

ii) Name box **(1 mark)**

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d) **State** two functions of a select query in a database **(2 marks)**

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……

e) State **two** characteristics of command line operating systems that make them suitable for configuring computer networks **(2 marks)**

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f) When purchasing a word processing software, Atieno was advised to consider its user friendliness. State **three** features that the software should have for her to conclude that it is user friendly**:** **(3 marks)**

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18. a) State **two** characteristics of open systems that make them better than closed systems**(2 mks)**

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b) State the function of each of the following during system construction:

i) Programming language (**1 mark)**

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ii) Invalid data **(1 mark)**

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c) Explain **two** reasons an organization may change an existing information syste**m(4 marks)**

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d) A school decided to change from a manual examination processing system to an online examination processing system using parallel change over strategy. State **three** challenges they are likely to face when using this changeover strategy. **(3 marks)**

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e) Peter was assigned the responsibility of designing the school magazine. State **two** reasons why he would prefer to use DTP software and not a word processor. **(2 marks)**

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f) The use of ICT has affected every aspect of human life either negatively or positively. State **two** ways in which ICT has negatively affected the music industry. **(2 marks)**

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19. a) A bank with many networked branches uses a data processing mode whereby each branch does its processing independently and then forwards the results to a central computer at the headquarters for final processing.

i) Identify this data processing mode **(1 mark)**

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ii) State **two** advantages of this data processing mode **(2 marks)**

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c) State **two** reasons why accumulation of dust should be avoided in the computer lab.(**2 marks)**

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c) For each of the following, identify the most appropriate internet service:

i) Real time exchange of text messages **(1 mark)**

……

ii) Personal website for sharing personal opinions on a particular subject **(1 mark)**

……

iii) Enable people in different geographical locations to hold live meetings **(1 mark)**

……

d) Tom a network designer was tasked to set up a local area network for Mwangaza Technical institute. He was provided with 4 computers, coaxial cables, 1 printer and 2 terminators. With aid of a well labelled diagram, design the most appropriate network topology that could have been set up by Tom. **(3 marks)**

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e) State **two** circumstances that may necessitate a network administrator to use a bridge in LAN **(2 marks)**

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f) Explain a reason why single mode fibre optic cable is preferred for long distance transmission of data signals **(2 marks)**

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20. a) One of the characteristics of solid state drives (SSD) is the use of electronic circuits to store data. Explain how binary logic is used to represent data in these devices. **(2 marks)**

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b) Convert 17.05_{10} to its binary equivalent **(3 marks)**

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c) Using twos complements and 8 bit notation, perform the following subtraction:

$29_{10} - 15_{10}$ **(4 marks)**

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d) Perform the following binary arithmetic

11101.011 – 100.110 + 10100.111

leave your answer in decimal notation **(4 marks)**

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e) State **two** challenges associated with the use of voice input for securing computer systems **(2 marks)**

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KCSE 2025 MOKASA MOCK EXAM

(MOI GIRLS-KABARAK-SACHO SERIES 2)

COMPUTER STUDIES

451/2

PAPER 2

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education. (KCSE)

INSTRUCTIONS TO CANDIDATES:

(a) Indicate your name and Admission number at the top right-hand corner of each printout.

(b) Write your name and admission number on the CD/Removable storage medium provided.

(c) Write the name and version of the software used for each question attempted in the answer sheet provided.

(d) Answer all the questions.

(e) All questions carry equal marks.

(f) Passwords should not be used while saving in the CD/Removable storage medium.

(g) All answers must be saved in your CD/Removable storage medium.

(h) Make a printout of the answers on the answer sheet.

(i) Arrange your printouts and tie/staple them together.

(j) Hand in all the printouts and the CD/Removable storage medium used.

(k) Candidates should answer the questions in English.

1. **Rembo Company Ltd** deals with sales of **three** types of electronic goods namely television sets, radio systems and smart watches. Below is a table showing details of June 2022 sales.

Rembo Company Ltd. Sales as per 30th June 2022							
Category Code	**Type**	**Item Description**	**Unit Price**	**Sold**	**Total**	**Tax**	**Net Amount**
TV001	TV	32" Vitron TV	16000	8			
TV002	TV	42" Hisense TV	60000	2			
RD001	Radio	Panda Radio	21000	12			
SW001	Watch	Oraimo Watch	7500	15			
TV003	TV	21" LG TV	11000	22			
SW002	Watch	Asorock Watch	6200	18			
TV004	TV	21" Sony TV	15800	14			
SW003	Watch	Apple watch	4500	20			
RD002	Radio	Sundar Radio	3200	30			
RD003	Radio	Revo Radio	4700	8			
TV005	TV	14" Samsung TV	8200	4			
SW004	Watch	Xiaomi Watch	6500	16			
Tax Rates			TV	**15%**			
			Watch	**12%**			
			Radio	**8%**			

Required:

(a) i) Type the following data in a spreadsheet and save it as **Rembo Company** **(14marks)**

ii) Copy the entire worksheet to sheet2 and rename it as **Rembo New** **(2marks)**

(b) Format Rembo new worksheet as follows:

(i) Center the Title across columns. **(2marks)**

(ii) The text should be Cambria, 18 points, bold and centered within a cell. **(2marks)**

(iii) Column Headings to be wrapped within the cells and centered **(2marks)**

(c) The Unit Price to be in two decimals and currency symbol Ksh. **(3marks)**

(d) Use appropriate cell references to calculate:

(i) The total, rounded to two decimals places. **(3marks)**

(ii) The TAX is based on the type of the item. Use the rates given in the table above to calculate tax payable on each item sold. **(3marks)**

(iii) The Net Amount, which is the total less tax. **(3marks)**

(e) Sort the worksheet in ascending order according to category. **(2marks)**

(f) Calculate the **subtotals** and **grand total** for **the three** types of electronic goods. **(6marks)**

(g) On a separate sheet, create a bar graph that compares sales for the three types of electronic goods. Label it appropriately. **(6marks)**

(h) Print the **Rembo new** and the bar graph **(2marks)**

2. i) Open a desktop publishing program and set the page layout in inches as follows.**(5marks)**

a) Paper size : 2.6" width by 3.2" height

b) Portrait: orientation

c) Margins: 0.25" all round

d) Layout type : multiple pages per sheet

e) Target paper size; A4



ii) Designs the card as it appears ensuring that the card covers all the space in the page. **(42marks)**

iii) Save the publication as anniversary card **(1mark)**

iv) Print out 8 copies of the card on a single A4 page **(2marks)**

KCSE 2025 MOKASA MOCK EXAM

(MOI GIRLS-KABARAK-SACHO SERIES 2)

HOME SCIENCE

441/1

PAPER 1

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education. (KCSE)

Instructions to Candidates

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

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

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

d) *Answer all the questions in section **A** and **B** and any other two questions from section **C.***

e) *Answers **must** be written in the spaces provided.*

f) ***Candidates should answer the questions in English***

For Examiners use only

Section	questions	Maximum score	score
A	1- 21	40	
B	22	20	
C		20	
		20	
		100	

SECTION A 40MKS

Instructions: Answer ALL questions in this section in the spaces provided

1. Define the term control of fullness **(1mks)**

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2. Identify **two** ways of meeting the social needs of the sick at home **(2mks)**

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3. Highlight **one** reason for washing woolen garments when immersed in water **(1mk)**

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4. State **two** ways in which a neglected kitchen bin could lead to infection**s** **2mks**

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5. Differentiate between needs and wants **(2mks)**

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6.State two conditions that can make breastfeeding difficult **(2mks)**

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7. Identify **two** types of knives used in the kitchen and their functions **(2mks)**

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8.State **one** characteristic of persuasive advertising **(1mk)**

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9. Give two reasons for food fortification **(2mks)**

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10. Maroke Girls High school is doing a laundry practical. The following is noticed by one of the students after drying the clothes: stains on the clothes, discoloration on some parts of the garments and a bad smell.

i) State the possible reason for the above observation **(1mk)**

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ii) Suggest **two** suitable solutions for the above observation **(2mks)**

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11. State **two** qualities of a good stitch **(2mks)**

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12. Mention **four** ways of neatening an open seam **(2mks)**

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13. State **two** factors to consider in the choice of a tracing wheel **(2mks)**

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14. List **four** body measurements required when making a pair of trousers. **(2mks)**

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15. Highlight **two** ways of preventing poisoning at home. **(3mks)**

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16. Differentiate between corns and bunions **(2mks)**

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17. Name **2** nutritional disorders associated with lack of calcium in the body **(2mks)**

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18.Give **two** ways of preventing tooth decay **(2mks)**

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19. State **two** advantages of budgeting **(2mks)**

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20. Identify **four** clothes improvised facilities **(2mks)**

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21. State **two** factors to consider when choosing a zip **(2mks)**

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SECTION B (20MKS) COMPULSORY

Answer the following questions in the spaces provided.

20) You are taking care of your aunt who is suffering from scabies.

a) Giving reasons explain how you will launder her pair of white cotton bed sheets**(8mks)**

b) Outline the procedure you will follow to clean your own pair of plastic shoes **(7mks)**

c) Explain how you will clean her porcelain plate **(5mks)**

SECTION C 40MKS

Choose TWO questions from this section and answer in the spaces provide below

23. a) Explain **three** precautions to observe when managing a burn at hom**e** **(6mks)**

b) Discuss **three** ways of ventilating a house using windows **(6mks)**

c) Explain **four** principles of food preservation. **(8mks)**

24. a) Explain **four** reasons for appropriate lighting in a house **(8mks)**

b) Describe **three** ways of improvising cleaning materials at home **(6mks)**

c) Explain **three** points you would consider when planning a meal for an invalid **(6mks**

25 a)George a Form four candidate has been failing his examination due to poor laying out of patterns and cutting. Explain **three** points that he should observe **(6mks)**

b) Explain **three** advantages of stewing as a method of cooking **(6mks)**

c) Discuss **four** activities that take place at the antenatal clinic **(8mks)**

END

KCSE 2025 MOKASA MOCK EXAM

(MOI GIRLS-KABARAK-SACHO SERIES 2)

HOME SCIENCE

441/2

PAPER 2

TIME: 2½ HOURS

SCHOOL…… SIGN……

Kenya Certificate of Secondary Education. (KCSE)

441/2

HOMESCIENCE

(CLOTHING CONSTRUCTION)

(PRACTICAL)CONFIDENTIAL

2½ HOURS

INSTRUCTIONS TO CANDIDATES

The school should provide the following items:

- ✓ **Poplin light coloured fabric 56cm long and 90cm wide**
- ✓ **Matching sewing thread**
- ✓ **Pressing tools**
- ✓ **Sewing machines**
- ✓ **2014 pattern**
- ✓ **Large envelopes**
- ✓ **Buttons 1cm wide**

KCSE 2025 MOKASA MOCK EXAM

(MOI GIRLS-KABARAK-SACHO SERIES 2)

HOME SCIENCE

441/2

PAPER 2

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education. (KCSE)

441\2

HOMESCIENCE

PAPER 2

CLOTHING CONSTRUCTION

TIME: 2 ½ HRS

INSTRUCTIONS TO CANDIDATES

1. The paper consists of three pages
2. Candidates should check the question paper to ascertain that all pages are printed as indicated and that no questions are missing.

GIRL'S SKIRT

A pattern of a girl's skirt is provided. You are advised to study the sketches, instructions and layout carefully before you begin the test.

MATERIALS PROVIDED

1. Pattern pieces

A. Skirt back

B. Yoke (front)

C. Lower skirt (front)

D. Front waistband

E. Back waistband

F. Frill

2. Plain lightweight cotton fabric 56cm long and 90cm wide.

3. Sewing thread to match the fabric.

4. One large envelop

5. Button 1cm wide

THE TEST

Using the materials provided, cut out and make the LEFT HALF of the SKIRT to show the following processes:

(a) Cutting out. **(16marks)**

(b) Making the dart at the back skirt. **(6 ½ marks)**

(c) Joining of the yoke front to the lower skirt front using an overlaid seam. **Neaten half the seam using loop stitches**. **(12marks)**

(d) Attaching of the frill to the lower skirt front using a plain seam. **Do not neaten (8mks)**

(e) Making of the skirt side seam from the yoke to the hemline using an open Seam. **(7marks)**

(f) Attaching of the front and back waistbands and holding the back in place using even tacking stitches **(20marks)**

(g) Making of the worked buttonhole. **(9marks)**

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(h) Working on a button. **(5marks)**

(i) **OMIT**

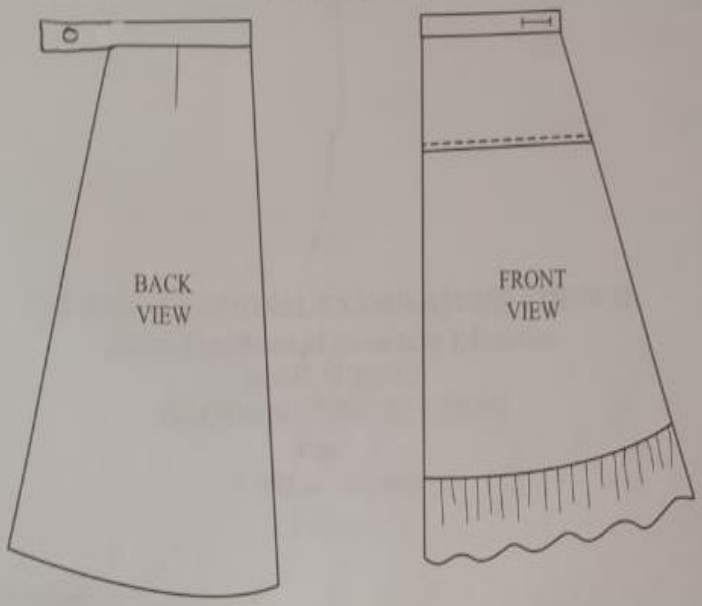
The management of the skirt hem.

(j) Overall presentation. **(6 ½ marks)**

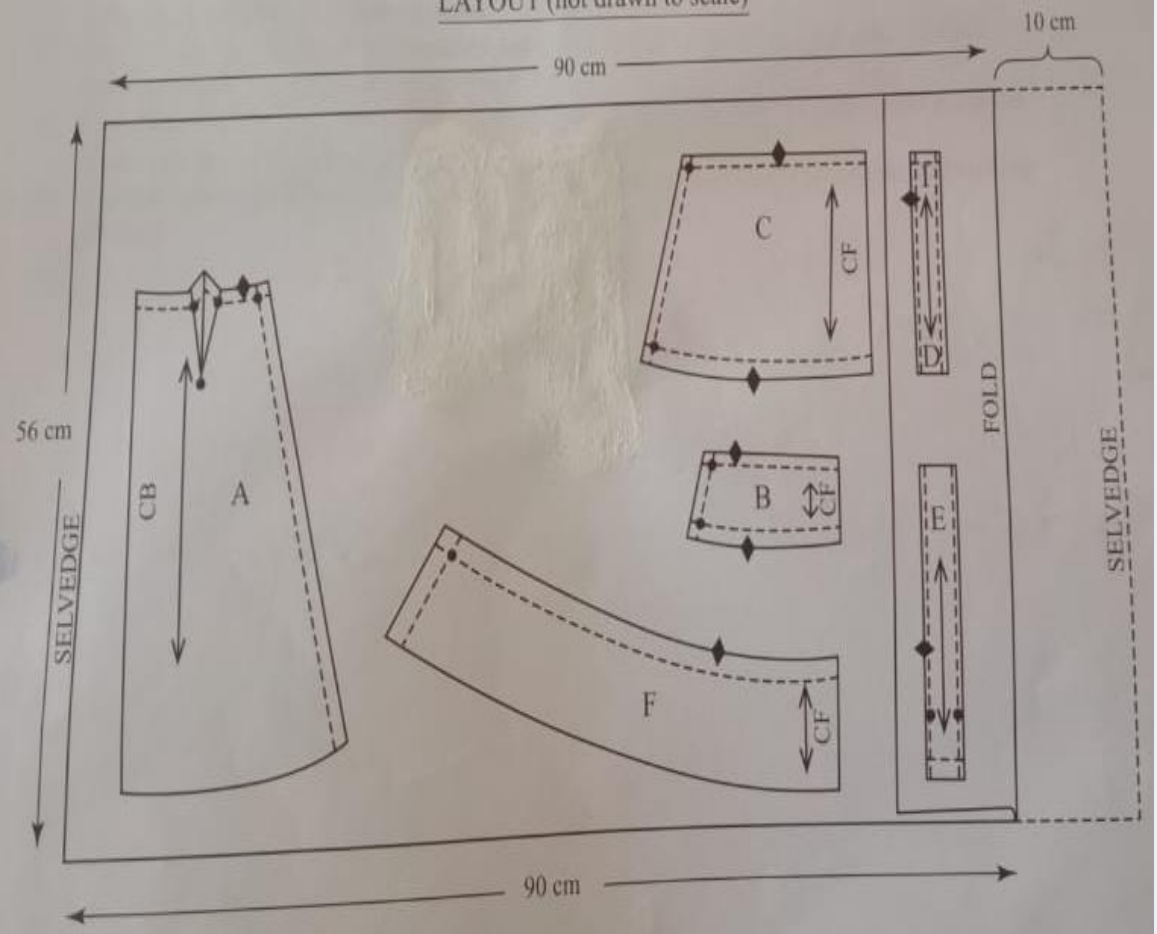
At the end of the examination, firmly sew onto your work, on a single fabric, a label bearing your name and admission number. Remove the needle, pins and loose threads from your work. Fold your work neatly and place it in the envelope provided.

Do not put scraps of fabric in the envelope. Do not seal the envelope.

SKIRT VIEWS



LAYOUT (not drawn to scale)



KCSE 2025 MOKASA MOCK EXAM

(MOI GIRLS-KABARAK-SACHO SERIES 2)

HOME SCIENCE

441/3

PAPER 3

TIME: 1¾ HOURS

NAME……

SCHOOL…… SIGN……

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Kenya Certificate of Secondary Education. (KCSE)

HOMESCIENCE 441/3

[FOOD AND NUTRITION] Practical

Time: 3 ¼ Hours

Planning session: 30 minutes

Practical session 1 ¼ hours

INSTRUCTIONS TO CANDIDATES

- Read the test carefully.
- Textbooks and recipes may be used during planning session as reference materials
- You will be expected to keep to your order of work during the practical session.
- You are not allowed to bring additional notes to the practical session.

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THE TEST

Your cousin is convalescing at your home after an abdominal operation. Using the ingredients listed below, prepare, cook and serve a **one-course meal for the two of you. Include a nutritious drink**

Ingredients

- Maize flour/Rice
- Liver/minced beef
- Tomatoes
- Onions
- Dhania
- Kales/cabbages
- Tea leaves/cocoa
- Sugar
- carrots
- milk
- Fat/oil
- Salt
- Spice of your choice

Planning Session.

Use separate sheets of paper for each task listed below and a carbon paper to make duplicate copies and proceed as follows: -

(i). Identify the dishes and write down their recipes

(ii). Write down your order of work.

(iii). Make a list of the food stuff, equipment and materials you would require.

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THE END

FOR THE FOLLOWING;

- ✓ ONLINE TUITION
- ✓ REVISION NOTES
- ✓ SCHEMES OF WORK
- ✓ SETBOOKS VIDEOS
- ✓ TERMLY EXAMS
- ✓ QUICK REVISION KITS
- ✓ KCSE TOPICALS
- ✓ KCSE PREMOCKS
- ✓ TOP SCHOOLS PREMOCKS
- ✓ JOINT PREMOCKS
- ✓ KCSE MOCKS
- ✓ TOP SCHOOLS MOCKS
- ✓ JOINT MOCKS
- ✓ KCSE POSTMOCKS
- ✓ TOP SCHOOLS PREDICTIONS
- ✓ KCSE PREDICTIONS
- ✓ KCSE REVEALED SETS

CALL/TEXT/WHATSAPP

0746 222 000

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