KCSE 2025 PREDICTION EXAM

ALL SUBJECTS

Introducing a meticulously crafted set of KCSE 2025 prediction exams, offering well-organized, detailed, and comprehensive coverage across a variety of subjects. Designed to mirror actual exam standards, these papers provide students with valuable practice, in-depth content mastery, and confidence-building preparation.
An essential resource for excelling in the upcoming national exams.

SUBJECTS PREDICTED;

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

SERIES 2

For Marking Schemes

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

THE SECRET TO SUCCESS

KCSE 2025 PREDICTION EXAM

POSSIBLE KCSE TEST 2

CHRISTIAN RELIGIOUS EDUCATION

313/1

PAPER 1

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

313/1

CHRISTIAN RELIGIOUS EDUCATION

PAPER 1

TIME: 2½ HOURS

INSTRUCTIONS TO CANDIDATES

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

b) *Write the date of examination and sign in the spaces provided above.*

c) *This paper consists of **six** questions.*

d) *Answer any **five** questions in the answer booklet provided.*

FOR EXAMINER'S USE ONLY

Question	1	2	3	4	5	6	TOTAL SCORE
Candidates Score							

For Marking Schemes Contact 0746 222 000 / 0742 999 000

Answer any five questions in the answer booklet provided.

1. **a**) State the benefits of learning Christian Religious education in secondary schools.**(8 marks)**

b) Explain the differences between Biblical causes of sin and Traditional African understanding of evil. **(7 marks)**

c) Identify Ways in which the Bible is misused in Kenya today. **(5 marks)**

2. **a)** Explain seven characteristics of the covenant between God and Abraham. **(7 marks)**

b) Outline the activities carried out by the Israelites on the night of the Passover. **(6 marks)**

c) What do Christians learn about the nature of God from the Exodus? **(7 marks)**

3. **a)** Explain four factors that led to the spread of idolatry in Israel during the time of Elijah. **(8 marks)**

b) How did God manifest his power during Prophet Elijah's ministry? **(6 marks)**

c) Give six reasons why Christians build churches. **(6 marks**)

4. **a**) Explain the role of prophets in the Old Testament. **(7 marks)**

b) Identify the social injustices condemned by prophet Amos in Israel. **(7 marks)**

c) How is the church promoting justice in the society today? **(6 marks)**

5. **a)** What did the Jews promise before Ezra the priest during the renewal of the covenant? **(7 marks)**

b) Identify final reforms carried out by Nehemiah to restore worship of God in Judah**.** **(6 marks)**

c) Identify seven ways in which Christians observe the day of worship. **(7 marks)**

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6. a) Explain the roles performed by ancestors in traditional African communities. **(8 marks)**

b) Outline six requirements for a sacrifice to be offered. **(6 marks)**

c) Give three changes that have taken place in the traditional African understanding of property **(6 marks)**

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KCSE 2025 PREDICTION EXAM

POSSIBLE KCSE TEST 2

CHRISTIAN RELIGIOUS EDUCATION

313/2

PAPER 2

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

313/2

CHRISTIAN RELIGIOUS EDUCATION

PAPER 2

TIME: 2½ HOURS

INSTRUCTIONS TO CANDIDATES

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

b) *Write the date of examination and sign in the spaces provided above.*

c) *This paper consists of **six** questions.*

d) *Answer any **five** questions in the answer booklet provided.*

FOR EXAMINER'S USE ONLY

Question	1	2	3	4	5	6	TOTAL SCORE
Candidates Score							

*Answer any **five** questions*

1 a) outline Isaiah's prophecy about the messiah on the suffering servant **in Isaiah 53. (8mks).**

b) Describe the message of angel Gabriel to Mary according to **Luke 1:26-38** **(6mks)**

c) Outline six lessons on family relationships drawn from the incident when Jesus accompanied his parents to the temple at the age of **twelve** **(6mks)**

2 a) with reference to Luke 5:17-26, describe the healing of the **paralytic man** **(8mks).**

b) State seven teachings of Jesus on true discipleship from the sermon on the **plain** **(7mks).**

c) Give reasons why modern Christians should accept to suffer in **Christ's name** **(5mks).**

3a Describe the incident in which Jesus forgave the sinful woman in **Luke 7:36-50.** **(8mks)**

b) Give six reasons why Jesus chose the twelve **Disciples.** **(6mks).**

c) Identify six ways in which Christians prepare themselves for the coming of God's kingdom **(6mks).**

4a) Describe the New Testament teachings on unity of believers based on the image of the bride **(8mks).**

b) How was the life of Peter transformed on the day of **Pentecost?** **(6mks).**

c) Outline Saint Paul's teaching on how the gifts of the Holy Spirit should be used in the church **(6mks).**

5.a) Explain the traditional African understanding of **marriage.** **(7mks)**

b) List six forms of abuse that children go through in child **labour.** **(6mks)**

c) Give seven criteria that Christians use to evaluate the use of **leisure.** **(7mks)**

6.a) Identify eight reasons why people engage in corrupt practices in Kenya **today.** **(8mks)**

b) In which ways are people punished in Kenya for causing social **disorders?** **(6mks)**

c) How can Christians today help to improve the **Environment?** **(6mks)**

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KCSE 2025 PREDICTION EXAM

POSSIBLE KCSE TEST 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 from this section

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

SECTION B (ANSWER ANY THREE QUESTIONS IN THIS SECTION 45MKS)

18. (a) Give **five** reasons for the migration of the Luo from their original homeland into Kenya. **(5 marks)**

(b) Describe the political organization of the Somali in Kenya during the pre-colonial period. **(10 marks)**

19. a) Give three reasons why the early visitors came to the Kenyan coast before 1500A.D**. (3mks)**

b) Explain **six** factors that contributed to the development of trade between the Kenyan coast and outside world by 1900. **(12mks)**

20.a) Give **five** grievances of the Kikuyu Central Association which were presented by Jomo Kenyatta to the colonial secretary in 1929. **(5mks)**

b) Explain **five** reasons why the MAUMAU movement was able to last for a long time. **(10mks)**

21. a) State **five** features that characterized African socialism in Kenya. **(5marks)**

b)Explain **five** ways in which the Harambee philosophy has promoted the development of education in Kenya. **(10 marks)**

SECTION C

(Answer Any Two Questions In This Section 30mks)

22. (a) State **five** characteristics of the human rights. **(5marks)**

b) Discuss the **five** methods used by the international community to solve conflicts. **(10marks)**

23. (a) State five reforms which have been introduced to improve the conditions of Correctional Services. **(5 marks)**

(b) Explain **five** factors which undermine free and fair elections in Kenya. **(10 marks)**

24. (a) Name **three** types of constitutionally established funds in Kenya. **(3 marks)**

(b) Discuss **six** challenges facing devolved governments in Kenya. **(12marks)**

KCSE 2025 PREDICTION EXAM

POSSIBLE KCSE TEST 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 from this section

1) Identify **two** sources of information which can complement oral traditions in studying history and government **(2mks)**

2) Give the makers of Oldowan tools. **(1mk)**

3) State the main reason that made the early man to set up permanent settlement **(1mk)**

4) State **two** ways in which agrarian revolution in Britain affected the lives of small farmers. **(2mks)**

5) State **two** ways through which political instability has contributed to food shortage in Africa. **(2mks)**

6) Name **two** parts in Africa that developed as a result of the Trans-Atlantic trade. **(2mks)**

7) What was the invention of the Wright brothers. **(1mk)**

8) State the symbol of unity of the provincial Asante in the 19th century **(1mk)**

9) Name **two** African leaders in the maji maji rebellion. **(2mks)**

10) Name **one** administrative method used by French to administer her colonies. **(1mk)**

11) Name **one** nationalist party that fought for independence of Mozambique. **(1mk)**

12) Name **two** systems of alliances formed during the First World War. **(2mks)**

13) Give the main cause of the cold war. **(1mk)**

14) Give **two** founders members of Non-Aligned movement. **(2mks)**

15) Give the main political challenge faced by Congo after independence. **(1mk)**

16) Name **two** past presidents of Tanzania. **(2mks)**

17) Name the body that determines the election of the president of the united state of America. **(1mk)**

SECTION B (45MARKS)

Answer Any Three Questions)

18) (a)State three reasons why early man moved from forests to settle in grass land in the pre-colonial era. **(3mks)**

(b)Describe the way of life of early man during the Old Stone Age period. **(12mks)**

19) Give **three** reasons why African slaves were preferred during the Trans-Atlantic trade. **(3mks)**

(b)Explain **six** challenges encountered by Trans-Saharan traders. **(12mks)**

20)(a)Name **three** chartered companies that ruled European territories in Africa during the 19th century. **(3mks)**

(b)Explain **six** economic impacts of the partition of Africa among the European powers. **(12mks)**

21) State **five** methods used by South Africa nationalists in the struggle for independence. **(5mks)**

(b)Explain **five** factors that favoured the success of FRELIMO nationalists during the struggle for independence in Mozambique. **(10mks)**

SECTION C (30 MARKS)

Answer Any Two Questions)

22) State **five** functions of the Lakiiko of the Buganda kingdom during the pre-colonial period. **(5mks)**

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

23)(a)State **five** features of commonwealth. **(5mks)**

(b)Explain **five** causes of cold war. **(10mks)**

24) Give **three** conditions that one should fulfill in order to be elected president of India. **(3mks)**

(b)Explain **six** functions of the British parliament. **(12mks)**

KCSE 2025 PREDICTION EXAM

POSSIBLE KCSE TEST 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, class and admission number in the spaces provided above.
(b) Sign and write the date of the examination in the spaces provided above.
*(c) This paper has **two** sections: **A** and **B**.*
*(d) Answer **all** the questions in sections **A**.*
*(e) Answer question **6** and any other **two** questions from Section **B**.*

FOR EXAMINER'S USE ONLY

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

For Marking Schemes Contact 0746 222 000 / 0742 999 000

SECTION A

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

1) a. Name three components of the solar system **(3mks)**

b. Give two weakness of the nebular cloud theory **(2mks)**

2) a. What is lunar eclipse **(2mks)**

b. Give the two dates of the year when **equinoxes** is experienced **(2mks)**

3) a. What is a sea breeze? **(2mks)**

b. Give the four main zones of the earth's atmosphere **(4mks)**

4) a. Name three man-made lakes in Kenya **(3mks)**

b. State two reasons why some Rift valley lakes in Kenya have saline water **(2mks)**

5) a. Define the term climate **(2mks)**

b. Mention any three consequences of climate changes **(3mks)**

SECTION B

Answer questions 6 and any other two questions in this section.

6.Study the map of Tambach (1:50,000 sheet 90/3) provided and use it to answer the following questions.

(a) (i)What is the magnetic variation of the area when the map was drawn? **(1 mark)**

(ii)Identify **two** types of scale on the map extract. **(2 marks)**

(b) (ii)What is the six figure grid reference of the cattle dip to the east of Kesup? **(2 marks)**

(ii) Give the position of Lake Kamnorok by latitude and longitude. **(2 marks)**

(c) (i)Describe the relief of the area covered by the map. **(6 marks)**

(ii)Explain **two** factors that have favoured the establishment of saw mills in the area covered by the map. **(4 marks)**

(d) (i)Draw a square 12 cm by 12 cm to represent the region from northing 77 to northing 80 and west of easting 81. **(1 marks)**

(ii) On the square, mark and label:

- A plantation
- Road D 329
- A cattle dip
- The region representing Uasin Gishu district. **(5 marks)**

(iii)What is the scale of the sketch that you have drawn? **(2 marks)**

For Marking Schemes Contact 0746 222 000 / 0742 999 000

8. **(a)** Name **one** fold mountain in:

(i) Asia **(1mk)**

(ii) North America **(1mk)**

(iii) South Africa **(1 mk)**

(b) (i) Apart from fold mountains, name three other features resulting from folding. **(3mks)**

(ii) With the aid of labeled diagrams, describe the formation of an over thrust fold (**5mks)**

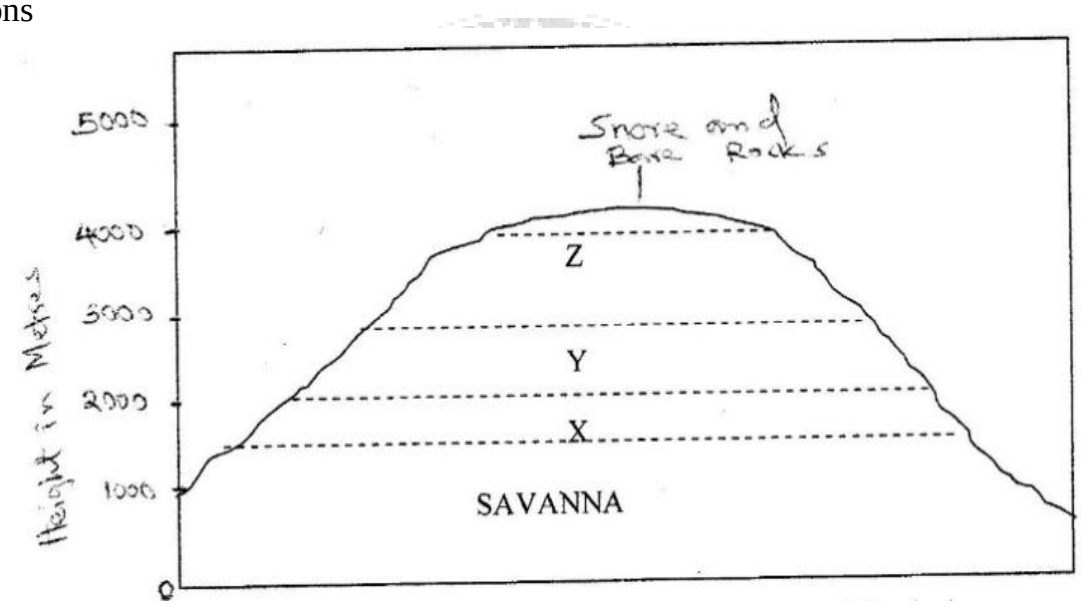
(c) Explain **four** effects of fold mountains on human activities . **(8mks)**

(d) Students are planning to carry out a field study on landforms in their conty.

(i) State **three** ways in which the students would prepare themselves for the field study.**(3mks)**

(ii) Give **three** advantages of studying landforms through field work **(3mks)**

9. The diagram below represents zones of natural vegetation on a mountain use it to answer questions



(a) (i) In your answer booklet, name the zones marked X,Y and **Z** **(3mks)**

(ii) Describe the characteristics of tropical Savannah vegetation **(5mks)**

(iii) State **two** reasons why the mountaintop has no vegetation **(2mks)**

(b) Explain **three** factors that have led to a decline of the natural grassland in Kenya**.** **(6mks)**

(c) Suppose you were to carry out a field study on the relationship between vegetation and altitude

(i) State **three** hypotheses you would formulate for your study **(3mks)**

(ii)State **four** methods you would use to record the information collected during the field study **(4mks)**

(iii)Name the type of map you would draw to present your findings. **(2mks)**

10(a) Name two types of submerged coasts **(2mks)**

(b) Explain how the following factors determine the effectiveness of wave erosion along a coast

(i) Nature of the material transported by waves **(3mks)**

(ii) Nature of the coastal rocks **(3mks)**

(c) With the aid of labeled diagrams, describe the process through which a stack is formed **(7mks)**

(d) (i) State four conditions that favour the growth of coral. **(4mks)**

(ii) Explain three ways in which coral contributes to the economic development of Kenya.**(6mks)**

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KCSE 2025 PREDICTION EXAM

POSSIBLE KCSE TEST 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, class and admission number in the spaces provided above.
(b) Sign and write the date of the examination in the spaces provided above.
*(c) This paper has **two** sections: **A** and **B**.*
*(d) Answer **all** the questions in sections **A**.*
*(e) Answer question **6** and any other **two** questions from Section **B**.*

FOR EXAMINER'S USE ONLY

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

SECTION A

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

1) a) Give three reasons why we study Geography in secondary schools. **(3mks)**

b) Explain the relationship between geography and Agriculture. **(2mks)**

2) a) Give two underground mining methods. **(2mks)**

b) State three negative effects of mining on the environment. **(3mks)**

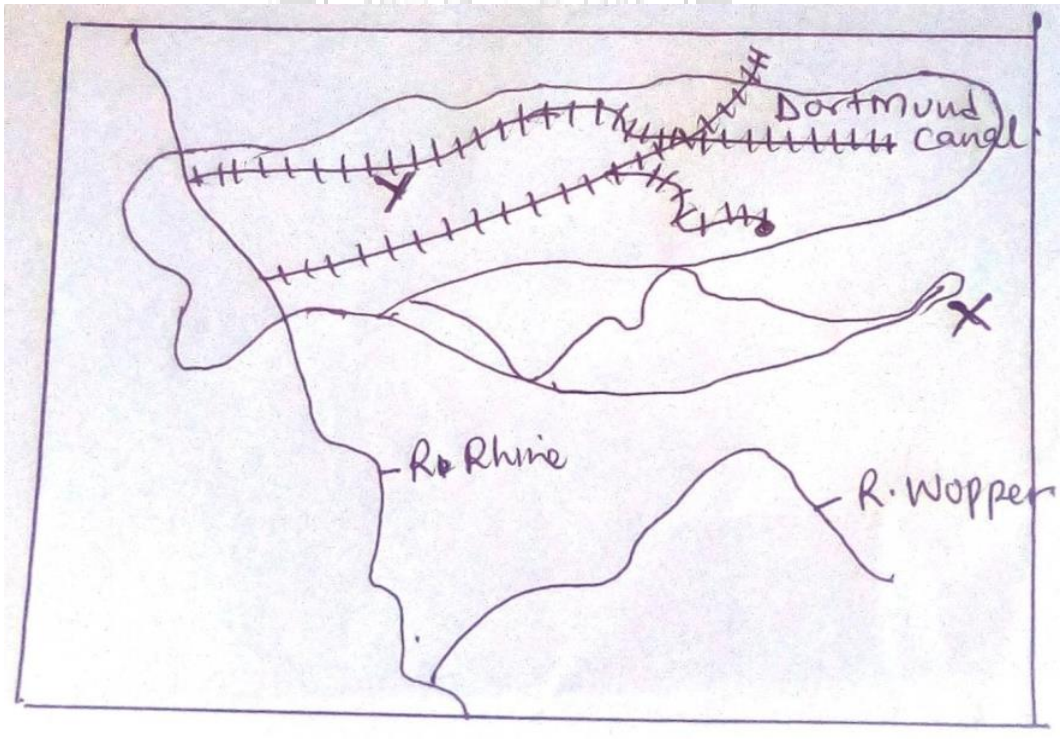
3) a) What is Agro-forestry? **(2mks)**

b) State three reasons why Agro-forestry is encouraged in Kenya. **(3mks)**

4) Name three legislations made by the government of Kenya governing environmental management and conversation. **(3mks)**

b) Give two major causes of noise pollution. **(2mks)**

5) Study the map of the Ruhr Industries region and use it to answer the question that follows.



Name the River marked X. **(1mk)**

Name the canal marked Y. **(1mk)**

Apart from Iron and steel industries, name three other industries in the Ruhr regions. **(3mks)**

SECTION B. Answer question 6 and any other two.

6) The table below shows crop production in Kenya from 1970 to 1973 in 000 tonnes.

	1970	1971	1972	1973
Tea	160	170	175	220
Coffee	50	60	30	40
Wheat	25	75	40	25
Pyrethrum	10	20	25	35

ai) Which crop had the highest increase in tonnage between 1972 and 1973. **(1mk)**

ii) Calculate the percentage increase in tonnage from Tea between 1972 and 1973. **(2mks)**

iii) Using the scale of 1cm represent 50000 tonnes. Draw comparative/multiple bar graph to represent the above data. **(8mks)**

bi) State three advantages of comparative bar graph. **(3mks)**

ii) Give the disadvantages of the comparative Bar graph. **(2mks)**

ci) State four physical conditions that favour growing of coffee in Kenya. **(4mks)**

ii) Describe the processing of coffee. **(6mks)**

7) ai) What is open cast mining? **(2mks)**

ii) Describe how shaft method is carried out. **(5mks)**

b) Explain four significance of mineral in Kenya. **(8mks)**

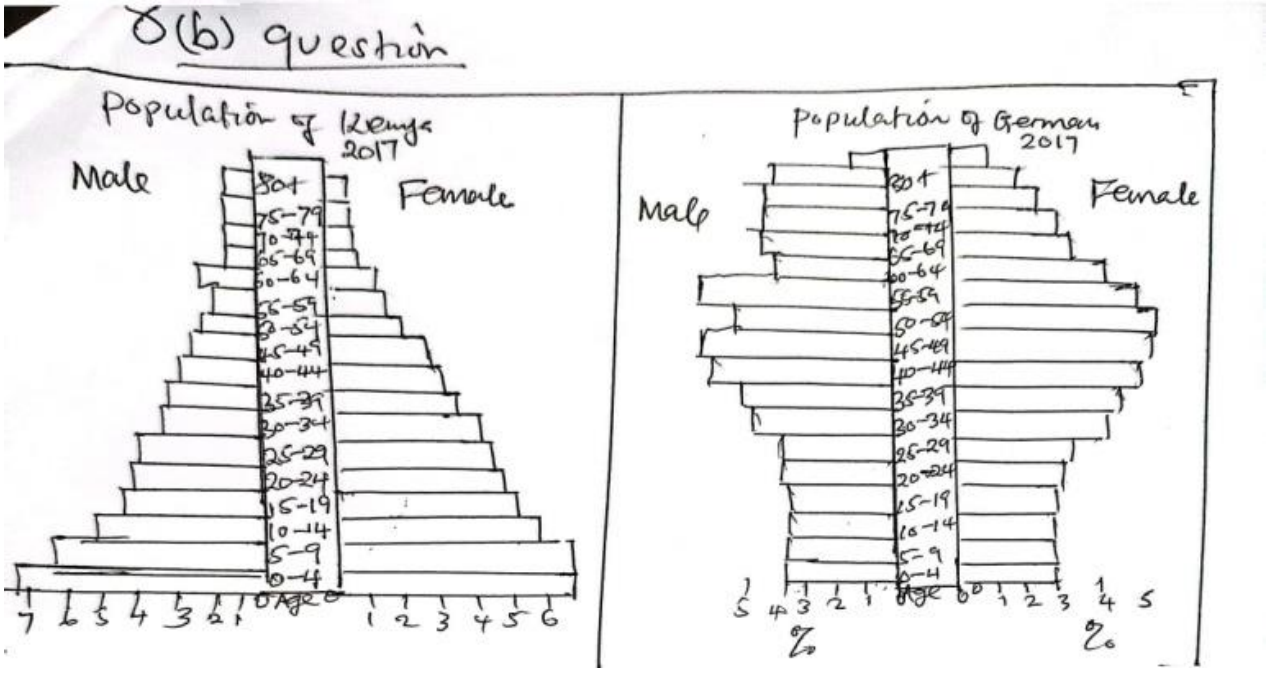
ci) Give three minerals that occur in veins. **(3mks)**

ii) Name two main areas where gold mining takes place in South Africa. **(2mks)**

iii) Describe the procedure of processing of gold. **(5mks)**

8) a) What is meant by population growth? **(2mks)**

b) Study the age-sex pyramids below and answer the questions that follow.



c) What terms are used to describe the populations of Kenya and German based on the shapes of the pyramids. **(2mks)**

d) Describe the population structure of German based. **(5mks)**

e) Give the reasons for the large witnessed in the Kenyan population in the first three age cohorts. **(4mks)**

f) State the effects of the population structure showing by age-sex pyramid in Germany. **(4mks)**

g) Explain four factors that result to a slow population growth. **(8mks)**

9) ai) What is forestry? **(2mks)**

ii) Apart from tropical hardwood forest name two other types of natural forest. **(2mks)**

iii) State the problems experienced in exploitation of tropical hardwood forest. **(2mks)**

b) List five characteristics of planted forests in Kenya. **(5mks)**

c) Explain three factors that favour forestry in Canada. **(6mks)**

Give five measures that the government has taken to conserve and manage forests in Kenya. **(5mks)**

Form four students in your school carried out a field study on forestry within the county.

Give three reasons they had to prepare a working schedule. **(3mks)**

What are the problems likely to be encountered during the field study? **(2mks)**

10) ai) Distinguish between a National Park and a Game Reserve. **(2mks)**

ii) State five reasons for establishment of National park and Game reserve. **(5mks)**

bi) Explain four problems facing the conservation of wildlife. **(8mks)**

ii) Give three positive effects of tourism. **(3mks)**

c) Explain four reasons why Switzerland receives more tourist than Kenya. **(8mks)**

For Marking Schemes Contact 0746 222 000 / 0742 999 000

KCSE 2025 PREDICTION EXAM

POSSIBLE KCSE TEST 2

ENGLISH

101/1

PAPER 1

(Functional Writing, Close Text and Oral Skills)

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

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

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

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

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

FOR EXAMINER'S USE ONLY

Question	Maximum Score	Candidate's Score
	20	
	10	
	30	
Total Score	**60**	

For Marking Schemes Contact 0746 222 000 / 0742 999 000

1. FUNCTIONAL WRITING **(20marks)**

1. Kabwana, a public company that has been in transport business for many years, is to hold their Annual General Meeting on 10/08/2024. As the company secretary;

(a) Write a notice of the meeting to be sent to members **(8 MARKS)**

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(b) Write the minutes of the meeting **(12 MARKS)**

For Marking Schemes Contact 0746 222 000 / 0742 999 000

2. CLOZE TEST (10 MARKS)

Juveniles are very often .....1.....victims and perpetrators of rape. While rapists .....2.....from all age groups and economic.....3....., studies show that.....4..... rapists are males between ages of 15 and 24. It is no surprise, ...5....., that females in that age group.....6..... frequently sexually assaulted and.....7....…..... The young males.....8..... commit these crimes do not.....9..... that 'no' means 'no'. Our society.....10.....the idea that anything goes, that nothing is forbidden. Many children have never been told that certain types of behaviour cannot be tolerated.

3. (a) ORAL SKILLS (MARKS)

Harlem
What happens to a dream deferred?
Does it dry up?
Like a raisin in the sun?
Or fester like a sore--
And then run?
Does it stink like rotten meat?
Or crust and sugar over
Like a syrupy sweet?

May be it just sags
Like a heavy load
Or does it explode?

(A Poetry Course for KCSE, EAEP, 2001)

(i) Identify and explain two uses of repetition in the poem above. **(4 marks)**

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(ii) Explain two uses of alliteration in the above poem**.** **(4 marks)**

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(b). For each of the following words, provide another word pronounced the same. **(6 marks)**

(i) sun .....

(ii) mean.....

(iii) sweet.....

(iv) know.....

(v) two.....

(vi) ail .....

(C) underline the stressed part in each of the words in bold**.** **(3 marks)**

(i) The production of coffee in Kenya has steadily gone down

(ii) We must arrive in time to catch our flight.

(iii) The most beautiful girl passed here.

(D) You are scheduled to attend an interview, mention three things you would do as part of your preparation**.** **(3 marks)**

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(E) Below is a telephone conversation between friends. Fill in the missing part. **(10marks)**

(i) Lucy: Hallo, may I speak to Judy?

Judy: ....,..... .....,.....

Lucy: Oh, how are you? How have you been?

Judy:..... .....

Lucy: I am very sorry, where was the accident?

Judy: .....

Lucy: Good to hear that your injuries were not too serious. You will pull through.

Judy: .....

Lucy: We will visit you as soon as we can. Bye for now and I wish you a quick recovery.

Judy: .....

For Marking Schemes Contact 0746 222 000 / 0742 999 000

KCSE 2025 PREDICTION EXAM

POSSIBLE KCSE TEST 2

ENGLISH

101/2

PAPER 2

Comprehension, Literary appreciation, and Grammar

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

Instructions to candidates

- ***a)*** *Write your name and index number in the spaces provided at the top of this page.*
- ***b)*** *Sign and write the date of examination in spaces provided above.*
- ***c)*** *Answer ALL the questions in this question paper.*
- ***d)*** *All your answers must be written in the spaces provided in this question paper.*
- ***e)*** *Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.*
- ***f)*** *Candidates must answer all the questions in English.*

For Examiner's Use Only

Question	Maximum Score	Candidate's Score
1	20	
2	25	
3	20	
4	15	
	TOTAL SCORE	

For Marking Schemes contact 0746 222 000 / 0742 999 000

1. Read the passage and then answer the questions that follow

We are constantly being reminded that this is the century of the common man. Among the rights the common man may be expected to claim is that of a share in moulding his mother tongue. In that agreeable essay "Grammar without Tears," written with so pleasant a blend of good sense and whimsicality that it is not always easy to be sure whether the author's tongue is in his cheek, Mr Hugh Sykes Davies invites us to pay our tribute to the common man of the past ----the "Lowly man", he calls him------ who throughout the centuries has defied the grammarians and, by insisting on going his own way, has rid our language of tiresome and useless things like inflections and genders and brought it to its present state of ease and flexibility and what Brandley called its " noiseless grammar". Mr Sykes Davies advocates that the Lowly man should be free to continue his work: as no doubt he will, speaking no longer with the accent of the English countryside but with that of the citizen of the United States. Whether there his influence will still be beneficent only time can show. What seems certain is that we cannot do much about it. All experience goes to show that in the long run popular taste decides our vocabulary, and in the past has done so not too badly. When we feel depressed about what is happening now we must get what consolation we can out of the thought, not wholly fantastic, that posterity may look back on the two Elizabeth ages as the eras of greatest in word-making, and find that on each occasion the result was an enrichment of the language to suit the needs of the time.

A worse danger threatens our language than its corruption by the undiscriminating absorption of new words. That is the way we are using the words we already have, especially, the growing habit of speakers and writers of both countries concealing their thoughts " even from themselves", as George Orwell says, under resounding generalities and pseudo-scientific jargon. "Will the next translation of the Bible", asks an English man, Ivar Brown, “be allowed to 'heal the sick"? No, it will have to ‘rehabilitate those who are suffering from psychophysical maladjustment.’ “A spectre haunts our culture," says an American, Lionel Trilling. " It is that people will eventually be unable to say, 'We fell in love and married,' let alone understand the language of Romeo and Juliet, but will, as a matter of course, say 'Our libidinal impulses being reciprocal, we integrated our individual erotic drives, and brought them within the same frame of reference.' A combined operation to exorcise this spectre would be an enterprise more worthwhile than competing with each other for the future control of a vocabulary which is unlikely to submit to dictation by anyone.

(Adapted by Mwalimu Consultancy Ltd; The Complete Plain Words, David Gordline Publishers, 2002)

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QUESTIONS

(a) Which one right is the common man expected to demand this century**?** **(1mark)**

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(b) How has the 'Lowly Man ' affected the English language? **(2 marks)**

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(c) What is the writer's attitude towards the introduction of new words? Explain. **(4marks)**

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(d) Why does the writer object to jargon**?** **(3 marks)**

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(e) In a paragraph of about 80 words, summerize the writer's views on the future of the English language. **(5 marks)**

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(f) Explain the meaning of the following words and expressions as used in the passage.

(i) moulding.....

(ii) whimsicality.....

(iii) tongue is in his check.....

(iv) noiseless grammar.....

(v) undiscriminating.....

2. <u>Read the following excerpt and then answer the questions that follow.</u>

Seymour: (Springing to his feet with clenched fists) That cannot be possible. Nobody can write that kind of thing about me in this world!

Harvester: (Looking at Ted and Seymour) Copies of indisputable documentary evidence to that effect were all over today's newspapers and are being shared in all media platforms.

Seymour: (Resuming his seat and swearing with trembling voice) Those are fake documents! These are all barefaced falsehoods! And I can assure you one thing: Those behind the allegations now have their appointment with fate! Certainly!

Ted : (Sitting properly and looking up for the first time) **Supply of air?** I am beginning to think this is serious.Could we end up in Baneta Express Prison?

Harvester:(Turning pages of his note book)But that is only one of the allegations ,there are many more ,including drug trafficking,grabbing of public land,**inflation** of the cost of municipal projects, use of proxies to secure municipal tenders, undertaking shoddy public works, murder and gang warfare. The information is very detailed on the people and companies involved .

Mossi: There is a lot of personal information on municipal leaders on that evil thing , too; including lifestyles of individual municipal officials,where they live, the kind of houses they live in, their businesses, the vehicles they own, other properties in their possession, when the properties were acquired, and a lot of other personal details I don't want to mention here. (Looking at Bembe) There was a lot of talk yesterday on the Madingo Golf Club, with everyone Wondering where you got the money to put it up.

Bembe: (Sitting up with an expression of horror on his face) The Madingo Golf Club? No! I have always been very **discreet** about my private affairs! How did they get the Information it is mine?

Mossi: You see, there is hardly anything on earth you can do without somebody knowing

About it. You should also remember that those we regard as our friends are Sometimes wolves in sheep's clothing. And they may have a lot of information About us,which could be damaging!

Bembe: This might be our worst nightmare!

Mossi: What worries me most is the recent formation of a lobby group,an amorphous virtual group, comprising mostly of lawyers,calling itself *The Samaritan*. It is calling upon the people to volunteer as witnesses and help in the prosecution of those involved in corruption and abuse of office in the Municipality.They are also planning to **petition** the Local Government Minister ,the Prime Minister,and the Chief Justice to take action.The situation is not pretty at all.

Ted: (Looking at Justice Jaden)Can such online allegations form a strong basis for prosecution and conviction?

Jaden: (Adjusting his eyeglasses) Yes, they can;provided there are valid documents supporting the allegations.

Bembe: (Throwing his hands in the air) I think we have no choice other than ban that thing within Maracas Municipality! The Municipal Council needs to pass a by-law to that effect urgently. I will enforce it immediately!

Jaden: (Adjusting his eyeglasses and then his tie) I think we need to be careful and strategic. On what basis do you ban it? And how can you police the use of mobile phones to ensure the ban is effective?

Seymour: We can think creatively about that.For example, we can claim that municipal authorities are concerned that suspect Apps,particularly spy Apps, are finding their way into our municipality. This may lead to theft of confidential information such as bank account details.We can also cite issues of cyberbullying and the sharing of pornographic materials in schools

QUESTIONS

a)What is Seymour referring to at the beginning of the excerpt ? **(2mks)**

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b)Identify and illustrate two aspects of style in this excerpt. **(4mks)**

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c)Discuss two themes evident in this excerpt **(4mks)**

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d)Discuss one character trait of Seymour and one character trait of Mossi as presented in this excerpt. **(4mks)**

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e)From your knowledge of the rest of the play, what two things does Mossi suggest could be done to control the use of the Samaritan App**?** **(2mks)**

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f) From your knowledge of the rest of the play, briefly explain the origin of the Samaritan App.

(4mks)

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g)Explain the meaning of the following words and phrases as used in the excerpt **(5mks)**

i)Supply of air ……

ii)inflation ……

iii)discreet ……

iv)amorphous ……

v)petition ……

3. Read the following oral narrative and answer the questions that follow.

WHY RHINO SCATTERS ITS DUNG

In days long ago, when animals could talk, Elephant used to tease Rhino about nearsightedness and bad temper (which was not very fair, since Elephant himself has not got the world's best eyesight, nor is he the most sweet-tempered of Africa's animal characters). Anyway, elephant was teasing Rhino and sure enough, after a while, Rhino could not help himself --he lost his temper. He challenged Elephant to a contest. (Rhino was quite sure he could win, and so prove that he was better than Elephant in at least one way.) The contest was to see who could produce the largest dung--heap.

Now, both animals are large. They both eat vast quantities of vegetation each day, and of course, they both make a lot of dung. But Rhino made by far the the largest heap, as old Elephant soon found out.

Rhino's pride at beating Elephant was short--lived, however. Elephant was a poor loser, and he flew into a jealous rage that was worse than anything even Rhino had been known to have. On his fury, he attacked Rhino and beat him savagely with his trunk, goring him with his tusks until Rhino begged for mercy.

"O Elephant," pleased Rhino, “Stop! I was mistaken. You are the greatest creature. You win. Only stop!" Poor Rhino lay on his back in the dust, wailing in fear.

Gradually, Elephant's great fury began to wear off, and he made Rhino beg and plead and promise never again to challenge the might of the Lord of Beasts, namely, himself, Elephant. At last he was satisfied and let Rhino escape.

Rhino never forgot that dreadful beating. He is afraid he may receive another one, so he makes sure that his dung--heap always looks smaller than that of the Elephant. And this is why he kicks at it, scattering it until it is quite flat.

(a) Classify this oral narrative giving reason for your answer**.** **(2 marks)**

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(b) What features, typical of oral narratives, do you find in this story? **(6 marks)**

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(c) Identify and illustrate two character traits of Elephant**.** **(4 marks)**

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(d) State two themes in this story**.** **(4 marks)**

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(e) Why are animal characters used in narrratives such as this? **(4 marks)**

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GRAMMAR

4. Rewrite the following sentences according to instructions. (4 marks)

(a) He shut the door, immediately, he heard a knock from behind. (Begin: No sooner.....)

.....,.....

(b) The teacher told us that studying is necessary before we achieve success. (Write in in direct speech)

.....,.....

(c) Mrs Kimani is teaching Agriculture. (Begin: Agriculture....)

.....

(d) Somebody took the key from my desk. (Rewrite as a question)

.....

(ii) Complete the following sentences using the appropriate form of the word in brackets. (4 marks)

(a) Swiss watches are known for.....(Precise)

(b) Such .....(repeat) is boring.

(c) The .....(clear) of the speech was appreciated by all.

(d) The police said it was a strange.....(occur)

(iii) Fill the blank in each sentence with an appropriate preposition**. (4 marks)**

(a) The electorate want no one .....me.

(b) The carpenter made a shelf .....wood

(c) After a delicious lunch, they left .....the game park

(d) I dropped the extra change.....my phone's purse.

(iv) Fill each blank space with the most appropriate pronoun from the choices given.

(a) Is that.....(he/him) sitting on top of a pick up?

(b) Mukunga writes faster than .....(I/me)

(c) The winners are Aredi and .....(her/she

KCSE 2025 PREDICTION EXAM

POSSIBLE KCSE TEST 2

ENGLISH

101/3

PAPER 3

(Creative Composition and Essays Based on Set Texts)

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDINDATES

a) *Answer three questions only*

b) *Question one and two are compulsory*

c) *In question three, choose only one of the optional texts you have prepared on.*

d) *Where a candidate presents work on more than one optional text, only the first to appear will be marked.*

e) *Each essay should not exceed 450 words.*

FOR EXAMINER'S USE ONLY.

QUESTION	TOTAL MARKS	CANDIDATE'S SCORE
1.Imaginative Composition	20	
2.The Compulsory Set Text	20	
3.The Optional Set Text	20	
TOTAL	60	

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Answer three questions only.

1. **Imaginative Composition (Compulsory)** **(20 marks)**

Either

a) Write a story with the following beginning:

The moment I entered the room, I decided to say the whole truth.

Or

b) Write a composition involving the following items: A coin, hospital, toilet.

2) The Compulsory Set Text **(20 marks)**

***Seeking revenge results in more pain*.** Using illustrations from Paul B. Vitta's novel, "Fathers of Nations", show the validity of the statement**.**

3) The Optional Set Texts **(20 marks)**

*Answer any **one** of the following three questions*

Either

a) The Short Story

Godwin Siundu (Ed.), *A Silent Song and Other Stories*

What parents do or even fail to do may negatively affect the lives of their children. Using relevant illustrations from the story *'The Sins of the Fathers'* by Charles Mungoshi, write an essay in support of this statement.

Or

b) The play

Adipo Sidang', *Parliament of Owls*

Arrogance only leads to one's downfall. With reference to the events in Adipo Sidang's play *Parliament of Owls*, write an essay in support of this statement.

Or

c) The Novel

Kazuo Ishiguro, An Artist of the Floating World

A good friend will always step in to help when needed to do so. With close reference to Kazuo Ishiguro's novel, *An Artist of the Floating World*, write an essay in support of this statement.

KCSE 2025 PREDICTION EXAM

POSSIBLE KCSE TEST 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)

a) *Andika jina lako na nambari ya usajili kwenye nafasi ulizoachiwa hapo juu.*
b) *Tia sahihi yako kisha uandike tarehe ya mtihani katika nafasi ulizoachiwa hapo juu.*
c) *Andika insha **mbili**. Insha ya kwanza ni ya **lazima.***
d) *Kisha chagua insha nyingine moja kati ya hizo tatu zilizobakia.*
e) *Kila insha isipungue maneno **400**.*
f) *Kila insha ina alama **20.***
g) *Kila insha lazima iandikwe kwa lugha ya **Kiswahili.***
h) *Insha zote sharti ziandikwe katika nafasi ulizoachiwa kwenye kijitabu hiki cha maswali.*

Kwa matumizi ya mtahini pekee

SWALI	UPEO	ALAMA
1	20	
	20	
JUMLA	40	

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MASWALI

1.Rafiki yako anayesomea katika shule jirani amefukuzwa shule kwa sababu ya ukosefu wa nidhamu.Mwandikie barua ukimshauri kuhusu umuhimu wa kuwa nanidhamu shuleni.

2.Teknolojia ya kisasa ina faida na madhara kwa vijana wetu.
Jadili.

3.Andika kisa kitakachoonyesha ukweli wa methali : **Asiyesikia la mkuu huvunjika guu.**

4.Andika insha itakayoishia kwa:
…Ilinichukua muda mrefu kuyaamini niliyoyoyaona.

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KCSE 2025 PREDICTION EXAM

POSSIBLE KCSE TEST 2

102/1

KISWAHILI

KARATASI YA 1 (LUGHA)

MUDA: SAA 2½

JINA……

SHULE…… SAHIHI……

NAMBARI YA USAJILI…… MKONDO……

Cheti cha Kuhitimu Kisomo cha Sekondari (KCSE)

MAAGIZO

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

b) Jibu maswali yote.

c) Majibu yaandikwe katika nafasi ulizoachiwa katika kijitabu hiki cha maswali.

d) Majibu yote lazima yaandikwe kwa lugha ya Kiswahili.

e) Watahiniwa wote lazima wahakikishe kwamba kurasa zote za karatasi hii zimepigwa chapa sawasawa na kuwa maswali yote yamo.

KWA MATUMIZI YA MTAHINI PEKEE

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

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UFAHAMU (ALAMA 15)

Shule yangu ya upili

Majio yangu katika shule hii ya upili haya kutokea kwa bahati nasibu bali kwa mipango kabambe niliyoianza tangu nikiwa shule ya vichekechea.Nikiwa sitetereki hata kwa wazazi wangu waliponisihi nijiunge na shule nyingine za karibu nikawa sisikii la mwadhini wala la mteka maji msikitini.Nikawa na ragba ya mkanja nikingoja siku ya kujiunga na shule yenyewe.Kweli majuto ni mjukuu na huja kinyume.

Nilizaliwa katika aila yenye na fasi iliyotopea na kubobea katika ukwasi uliodhihirika kutokana na mitaa tulikoselelea kwa muda kabla ya baba kuaamua kununua nyumba yake mwenyewe huko upande wa Karen hivyo tukagura kutoka Lunda.Wakatiwa likizo tukawa tunaruka hadi pwani ambako mama yangu alikuwa amemiliki jumba lililokuwa katika ufuo wa bahari lililojengwa katika kipande kisichopungua ekari tatu alilotunukiwa wakati wa nikahi yao na wakwe wa baba yangu.

Wavyele wangu wakawa wanaendesha magari meusi ya kifahari ingawa sikuwahi kumwona mama akichangamka kuendesha magari yake ya maana,kila macheo ya siku za kazi gari lililoendeshwa na dereva ambaye alimstahi mama hadi akawa anamfungulia mlango wa gari na kuufunga baada ya mama kujitoma katika tumbo la gari lilimjia na kumrejesha kwa wakati.Nikajiunga na shule ya msingi ya kibinafsi ambako nilishughulikiwa kama kikembe.Wengi wa wale tuliosoma nao walikuwa wa tabaka langu na walikuwa wametoka katika kila sehemu nchini Kenya.

Hayawi hayawi huwa na siku ya kuripoti ikafika.Alfajiri,dereva mmoja akatumwa kwenda hadi Kisumu ili atulaki na kutusafirisha kutoka uwanja wa ndege hadi shule ya upili ambayo ilikuwa yangu ya rohoni.Nasi tukaelekea hadi uwanja wa ndege ili turuke hadi Kisumu.Safari yetu kutoka kitongoji cha kifahari hadi Airport ilikuwa njema,safari yetu tulipoabiri ndege ilikuwa bila bughudha,safari yetu kutoka Kisumu mjini haikuwa na kasoro na tulienda kulingana na mpango.Safari yetu ilikuwa mufti hadi tulipofika katika lango la shule ya kitaifa!Tulipotia ozitu!!....jamani.....jamani nikafa moyo.Labda mama aliweza kubaini mabadiliko ya hisia zangu,nilitamauka, nikawa mchege na kusema kweli niliyoyaona sikuamini.Mvua iliyokuwa imepasua hapo awali ilikuwa imeacha vitua vya maji kwenye vijia vya kutembea vilivyochakaa na kubomokabila yeyote kuja likuvikarabati.Mjengo yalikuwa makongwe yaliyojengwa miaka mia moja iliyopitana yalistahili kuitwa makafadhi badala ya pahali pa kumkaribishia mwanafunzi aliyepita kwa alama mia nne na thelathini na tano.Asiye na wake ana Mungu,nikapiga moyo konde lazima nisajiliwe katika shule ya ndoto langu.Ningewezaje kughairi wazo langu baada ya siku hizo zote za maandalizi tena mbele ya wanuna walioniona kama kielelezo chao tangu walipozaliwa.Nikasajiliwa!

Sikujua,haki kasi kujua,sikujua shule ya upili ya kitaifa yaweza kuwa hivi.Kweli mwanafunzi aweza kukosa viatu na hatakushindwakununuarangiyakupakaviatu hivyo iwapo amenunuliwa na wahisani?Nilimlaumu nina maana hakunieleza kuwa mtu anaweza kula chakula ambacho mbwa wetu hawezi hata kukiangalia.Nilipoingia katika ukumbi wa chakula nilihisi kitefutefu nusura nichafukwe na moyo,makapi ya mboga na uchafu usioelezeka ulinikumba,kisha nikapewa kisahani cha plastiki na kupakuliwa kipande cha ugali ambacho bado kilikuwa na unga na kuachiwa hiari ya kukila au kukitupa.Wenzangu wakawa wanakirambatia chakula kwa kasi huku

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mmoja wao alipoona jinsi nilivyokiangalia changu akanihisi nimpe chote na kukimaliza fyu.Wote walikuwa na furaha kemkem na kuajabia utukufu wa shule iliyotukuka ya kitaifa ila mimi. Baada ya mlo'rojorojo',tukaelekea darasani nilikopigwa na mghuma mkubwa. Tulikuwa wanafunzi hamsini na watano katika darasa moja tu! Mwalimu mmoja akaja na kutukaribisha shuleni kisha akatuarifu kuwa atakuwa mwalimu wa darasa letu.Nilipomsikia akinena nusura niishiwe na stahamala,kimombo chake kilinishangaza,hasa matamshi yake yalipungukiwa na kudhirisha athari za lugha ya asili.Nilihisi kana kwamba ningemrekebisha lakini sikudhubutu.

Tukafululiza hadi bweni na nikajilaza kitandani chembamba huku mwingine nisiyemjua lakini asiyejua kuwa kuna nguo maalum za kulala akalala uchi katika ghorofa ya juu ya kitanda chetu.Mgeni njoo mwenyeji apone maana baada ya muda wadudu ambao sikuwahi kuwaona aushini mwangu wakaanza kunishambulia. Nikaamka baada ya kumnasa mmoja wa wadudu hawa nakuuliza mmoja wa wenzangu ni wapi wadudu hawa na kwa kutojali hata kidogo,akanieleza kuwa hawana neno bali ni kunguni tu,sikujua na kwa kweli mama hakuniambia kuwa kuna wadudu wanaotafuna mtu na hunuka fye! Sikulala kwa hofu huku wenzangu wakiforota kwa njia ya kunighasi.Sikuwahi kudhani kuwa watu wengi wanaweza kulala chumba kimoja huku change kikiwa na hamamu na vifaa vyote muhimu kikibaki bila mtu! Tulisomeshwa na walimu wasiojali kana kwamba tunaelewa au la.

Hawakushughulika iwapo tulifanya kazi za ziada aula,ndio,hakujali chochote. Kilichonishangaza ni kuwa wanafunzi waliojiunga nasi kutoka shule za umma wenye alama duni waliwapenda na kuelewa haraka walichosomeshwa na hawakujali matamshi yao,labda hawakuyatambua. Hatimaye tukafanya mtihani wa mwisho wa muhula wa kwanza.Nilishangaa ghaya iliponibainikia kuwa aliyetuongoza alikuwa ghulamu mmoja mshamba niliyempuuza tu mvulana kutoka kijijini ambacho singetambua katika ramani ya nchi ambaye hata vitu vya kimsingi vilimpiga chenga.Nikafanya uchunguzi nikatambua mwenzangu alikuwa na alama mia mbili hamsini na tatu akitoka katika darasa la nane, nilifanikiwa kuwa nambari mia mbili hamsini na tatu kwa jumla ya wanafunzi mia tatu! Tulipofunga kwa likizo ya Pasaka nikaamua kuchukua hatua nyingine sitawahi kuhama kutoka shule hii ya upili wala kuwa zaidi ya nambari kumi!

Maswali

a) Thibitisha kauli kuwa msimulizi ana msimamo thabiti**.** **(alama2)**

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b) Tofautisha jinsi mwandishi alivyofunzwa katika shule ya kibinafsi na shule ya upili. **(alama 3)**

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c) Taja mambo matatu yanayotuonyesha kuwa msimulizi alilelewa katika aila ya kikabaila kulingana na aya ya pili. **(alama3)**

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d) Andika masuala matatu yaliyomshangaza katika shule ya upili**.** **(alama3)**

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e) Andika tamathali mbili zilizotumika katika kifungu**.** **(alama2)**

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f) Eleza maana ya msamiati huu kama ulivyotumika katika kifungu**.** **(alama3)**

Alimstahi……

Kughairi…….

Kunighasi…….....

SEHEMUB:UFUPISHO (Alama15)

Soma kifungu kisha ujibu maswali.

Ripoti za kila mara kuhusu uharibifu wa pesa za umma katika serikali za kaunti ni za kusikitisha.Kuna mabilioni ya pesa za kulipa ushuru ambazo hufujwa katika serikali kuu,na hivyo basi wananchi wanakosewa sana wanapoona mtindo huu ukiendelea pia katika serikali za kaunti.Wakati katiba ilipopitishwa mwaka wa 2010,Wakenya wengi walikuwa na matumaini mno kwamba ugatuzi

ungewatatulia matatizo ambayo walikuwa wakipitia katika tawala zilizotangulia,hasa katika maeneo yaliyotengwa kimaendeleo.

Miaka tisa baadaye,kuna mafanikio ambayo yamepatikana ila hatua kubwa zaidi inaweza kupigwa katika kuboresha maisha ya aina raia kama mianya inayotumiwa kufuja pesa za umma itazibwa.Wizi huu unaojumuisha pia jinsi magavana wanavyobuni nafasi za kazi zisizo na maana ambazo wakati mwingi hupeanwa kwa jamaa na marafiki wao,ni sharti ukomeshwe mara moja.

Kuna wananchi wengi ambao tayari wameanza kufa moyo kuhusu umuhimu wa ugatuzi ilhali ukweli ni kwamba hatungependa kurejelea utawala uliochini ya serikali kuu pekee.Changamoto za ugatuzi zinazosababishwa na ulafi wa viongozi wachache zinatoa nafasi kwa wakosoaji wa mfumo huu wa uongozi kushawishi wananchi na hata wahisani wasishughulike kuchangia katika maendeleo ya kaunti zao.

Juhudi zozote zile za maendeleo haziwezi kufanikishwa bila ushirikiano kutoka kwa wananchi na wahisani na hivyo basi ni jukumu la viongozi kuonyesha nia ya kutumia mamlaka walizopewa kwa manufaa ya raia.Tume ya maadili ya kupambana na ufisadi (EACC) kufikia sasa imeonekana kufanya kazi nzuri kwa kuwasaka na kuwashtaki magavana walio mamlakani na wengine walioondoka,kwa kushukiwa kufuja mali za umma.Tungependa asasi zote zinazohusika na masuala ya kupambana na uhalifu, pamoja na wadau wengine katika jamii wenye nia njema kwa wananchi wasifumbie macho maovu yanayotendwa katika kaunti zetu.

Nchi hii inatawaliwa kwa misingi ya kisheria na hivyo basi hakuna sababu kumhurumia kiongozi yeyote anayekiuka sharia anapokuwa mamlakani kwa msingi wa mamlaka aliyoshikilia.Nikupitia adhabu kali za kisheria pekee ambapo tutafanikiwa kukomesha uongozi mbaya kwani kama wananchi watakuwa wakisubiri kuwaadhibu wahusika kwa kuwaondoa mamlakani pekee,watakuwa wametoa nafasi ya ufujaji kwa viongozi wapya kila miaka mitano.

(Kutoka gazeti la Taifa Leo)

(a) Fupisha ujumbe wa aya tatu za kwanza kwa maneno 80. (alama8,1yamtiririko)

Matayarisho

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Jibu

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(b) Fupisha aya mbili za mwisho kwa maneno70**.** **(alama7,1yamtiririko)**

Matayarisho

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Jibu

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SEHEMU YA C: MATUMIZI YA LUGHA. (ALAMA 40)

a) Andika neno lenye muundo ufuatao**;** **(alama 2)**

Kikwamizo sighuna cha mdomo meno,irabu ya mbele juu,nazali ghuna ya midomo,kipasuo ghuna cha mdomo na irabu ya nyuma wastani.

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b) Tunga sentensi kwa kutumia kiwakilishi huru cha nafsi tatu umoja**.** **(alama 2)**

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c) Tambulisha vipashio vitatu vya sarufi ya kiswahili**.** **(alama 3)**

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d) Tumia neno ‘vibaya’ kama; **(alama 2)**

Kivumishi

_____

Kielezi

_____

e) Tunga sentensi moja katika wakati ujao hali endelevu**.** **(alama 2)**

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f) Eleza matumizi ya ‘ni’ katika sentensi hii. **(alama 2)**

Ingieni darasani mara moja ili niwape zoezi ambalo ni rahisi.

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g) Ainisha vielezi vya namna katika sentensi hii**.** **(alama 2)**

Mzee huyu mkongwe alicheka kijinga huku akila haraka haraka.

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h) Tambua miundo mitatu ya ngeli ya LI-YA. **(alama 3)**

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i) Bainisha shamirisho na chagizo katika sentensi ifuatayo. **(alama 3)**

Kimani aliukata mti kwa kisu jana asubuhi.

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j) Andika kwa usemi wa taarifa: **(alama 2)**

Karani: Njoo nikutume kwa baba yangu.

Kamau: Sitaki kupita njia ya kwa babu.

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k) Nimenunua dawa ili iwamalize wadudu wanaotusumbua hapa kwetu nyumbani. **(alam 2)**

Anza: Wadudu

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l) Andika kwa ukubwa hali timilifu. **(alama 2)**

Mtego ulimnasa ndovu huyo.

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m) Bainisha vishazi katika sentensi fuatayo. **(alama 2)**

Ingawa alitia bidii masomoni,alifeli mtihani.

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n) Tambua aina mbili za sentensi ukizingatia uamilifu na utoe mfano mmoja kwa kila moja. **(ala 2)**

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o) Taja na utolee matumiz mawili ya mkwaju**.** **(alama 2)**

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p) Changanua sentensi hii kwa kutumia kielelezo cha visanduku. **(alama 4)**

Waswahili husema chema chajiuza kibaya chajitembeza.

q) Andika sentensi moja ukitumia kitenzi ulichopewa katika kauli ya kutendewa**.** **(alama 1)**

Ja

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r) Bunda ni kwa noti ,na bumba ni la nyuki ilhali _____ ni kwa karatasi. **(alama 1)**

s) Kamilisha methali hii. **(alama 1)**

t) Mfa maji**…….....**

SEHEMU YA D: ISIMU JAMII (ALAMA 10)

Kibiko: Hujambo dada Cheupe?
Cheupe: (akikohoa) Sijambo ndugu Kibiko.
Kibiko: Unaendelea namna gani?
Cheupe: Niko poa isipokuwa maumivu kidogo ya chest.
Kibiko: Usijali nitakupa pain relievers utakuwa sawa.
Cheupe: Asante sana,nashukuru.

Maswali.

a) Eleza muktadha wa mazungumzo haya. **(alama 2)**

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b) Taja na ueleze sifa za lugha iliyotumika katika mazungumzo haya**.** **(alama 8)**

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KCSE 2025 PREDICTION EXAM

POSSIBLE KCSE TEST 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

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

b) *Jibu maswali manne pekee.*

c) *Swali la kwanza ni la lazima.*

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

e) *Usijibu maswali mawili kutoka sehemu moja.*

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

Kwa matumizi ya mtahini pekee

SWALI	UPEO	ALAMA
1	20	
	20	
	20	
	20	
JUMLA	80	

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SEHEMU A: RIWAYA

Clara Momanyi: *Nguu za Jadi*

1. Lazima

i. "Kuna waliomwita mnyakuzi huku wengine wakimwita dudumizi kwani alinyemelea viota vya wengine. Hajengi bali hubomoa."

a) Jadili sifa **nne** za anayerejelewa katika dondoo. **(alama 4)**

ii. "Karibu mwenzangu. Subiri nikuletee kikombe cha chai''

"Hata usilete,sin a hamu ya chai mwenzangu. Nina machungu moyoni. Ndiposa nimekuja unisaidie kuyapanguza … kuyamaliza hutaweza."

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

b) Fafanua umuhimu wa msemaji wa **maneno yaliyokolezwa** katika kuendeleza ploti kwenye riwaya *Nguu za Jadi*. **(alama 4)**

c) Eleza machungu ambayo msemaji wa maneno yaliyokolezwa anayo moyoni, ambayo angependa asaidiwe kuyapunguza katika riwaya Nguu za Jadi. **(alama 4)**

d) Jadili mbinu ambazo Mtemi Lesulia alizitumia kubakia uongozini ukirejelea riwaya *Nguu za Jadi*. **(alama 4)**

SEHEMU B: TAMTHILIA

Timothy Arege: *Bembea ya Maisha*

Jibu swali la 2 au la 3.

2. "Haikuwa mara moja mnavyofikiria. Ilianza pale chuoni. Wenzangu walinipa mvinyo kunirai kuonja ulevi."

a) Eleza muktadha wa maneno haya. **(alama 4)**

b) Kwa hoja **nne**, onyesha athari ya ulevi katika maisha ya mzungumzaji. **(alama 4)**

c) Onyesha umuhimu **sita** wa mandhari ya dondoo hili. **(alama 6)**

d) Mzungumzaji ameendeleza maudhui ya mabadiliko. Thibitisha ukirejelea tamthilia *Bembea ya Maisha*. **(alama 6)**

3. "Mtu ana ubaguzi kama nini! Ana moyo mgumu kama jiwe! Amejaliwa lakini bahili kama mchanga wa dhahabu. Hajui mali ya bahili huliwa na wadudu."

a) Bainisha mbinu **nne** za kimtindo zilizotumiwa katika dondoo**.** **(alama 4)**

b) Mzungumzaji anaashiria kwamba anayerejelewa alikuwa mchoyo. Onyesha kina cha kauli hii ukirejelea tamthilia *Bembea ya Maisha*. **(alama 6)**

c) Jadili jinsi maudhui yafuatayo yalivyoshughulikiwa katika tamthilia *Bembea ya Maisha*. **(alama 10)**

i. Usasa

ii. Taasubi ya kiume

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SEHEMU C: HADITHI FUPI

D.W. Lutomia na Phibbian Muthama (wah.): *Mapambazuko ya Machweo na Hadithi Nyingine*

Jibu swali la 4 au 5

Yussuf Shoka Hamad: *Mzimu wa Kipwerere*

4. "Katika kijiji hiki kuvuta kileo chochote aina ya tumbaku kulikuwa marufuku na kungeweza kugharimu hata maisha ya mtu. Vilevile, kubwia unga na hata kunywa pombe yalikuwa makosa ya jinai ingawa pamoja na juhudi zote hizi kuzuia dawa kama hizi, mji wa watawa uliongoza kwa uingizaji, usambazaji na hata utumiaji wa vileo na dawa za kulevya, ukizingatia kuwa mambo yote haya yalikuwa yamepigwa marufuku na mzimu na yalimlazimu kila mtu kuyazingatia. … hayakuwa maswali rahisi kujibika si kwa sisi tu wahenga, bali hata mzimu wetu bila shaka haukuwa na jibu!"

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

b) Dondoo hili limetawaliwa na mbinu **moja kuu** ya kimtindo. Itaje na uithibitishe. **alama 2)**

c) Kwa hoja mwafaka, eleza jinsi suala la unafiki linavyojitokeza kwenye dondoo hili na katika hadithi nzima ya *Mzimu wa Kipwerere***.** **(alama 9)**

d) Bainisha toni inayojitokeza katika dondoo hili. **(alama 2)**

e) Fafanua vigezo **vitatu** unavyoweza kuzingatia katika kutambua sifa za wahusika kwenye hadithi *Mzimu wa Kipwerere.* **(alama 3)**

Mzamane Nhlapo: *Nipe Nafasi*

5. "Jamii na serikali zinatunyima sisi wanawake uhuru.…Kabla sijafa, nataka kwanza niwe nimepata nafasi ya kuyaboresha maisha yangu na yale ya wanangu."

a) i. Taja asasi **mbili** za jamii zinazotumiwa kuwakandamiza wanawake. **(alama 2)**

ii. Huku ukirejelea hadithi ya *Nipe Nafasi,* fafanua jinsi jamii na serikali zimewanyima wanawake uhuru. **(alama 7)**

iii. Jadili juhudi **tano** za mzungumzaji katika kuyaboresha maisha yake na maisha ya wanawe ukirejelea hadithi *Nipe Nafasi*. **(alama 5)**

Paul Ngángá Mutua: *Harubu ya Maisha*

b) "Mwenyewe wajua mimi sipendi mambo ya kukopa. Isitoshe mimi nimekuja hapa likizo. Sasa zimekatika wiki mbili nawe huyo na kazi tu."

Fafanua umuhimu **sita** wa mzungumzaji wa maneno haya katika kuijenga hadithi *Harubu ya Maisha.* **(alama 6)**

SEHEMU D: USHAIRI

Jibu swali la 6 au 7

6. *Soma shairi lifuatalo kisha ujibu maswali***.**

Pana haja ya kupima, neno tuzowele –angu
Tusizowee kusema, hili ni teuo langu
Huenda huji mapema, -angu huja kuwa tungu
Ikaja kukusakama, na kukuposha kwa Mungu
Pana haja ya kupima.

Neno huwa ni la kwako, likiwa ndani moyoni
Lakini katu si lako, likishavuka menoni
Kwa hivyo likutokako, liweke kwenye mizani
Linaweza kuwa cheko, ama tusi kwa wendani
Pana haja ya kupima.

Vivyo hivyo kwa lebasi, huwa yako kisutuni
Hivyo nina wasiwasi, wambe yako sebuleni
Itavutiya matusi, ya wenzio insane
Wakakuchoma nafusi, kwa mishale ya lisani
Pana haja ya kupima.
Mwana ujuwe ni wako, punje ukiimezele
Lakini katu si wako, nde ukimuletele
Akiwa yu ndani yako, ni wa duniya vivile
Ukishishilia ni wako, muavye takakuole
Pana haja ya kupima.

Maisha nayo si wako, utabaradi milele
Ungayaishi ja yako, ni tunu ya maumbile
Mgawa si kufu yako, mshindane hili lile
Akupapo akupoko, utaishi palepale
Pana haja ya kupima.

Ni chetu chako si chako, ulimwengu huwa vile
Juhudi zingawa zako, wa kufaidi ni wale
Ikifika siku yako, nyono zikukae mbele
Ulichosema ni chako, huwabakiya wawale
Pana haja ya kupima.

Kaseme na moyo wako, Ubaini haya yale
Ukiambacho ni chako, kisikupe mageule
Kitu utajacho chako, huenda kiwe cha wale
Na usemacho si chako, kiwe chako ndicho kile
Pana haja ya kupima.

Maswali

a) Fafanua dhamira ya mwandishi wa shairi hili. **(alama 2)**
b) Pambanua bahari zozote **tatu** za shairi hili. **(alama 3)**
c) Dhihirisha kwa kutoa mifano matumizi ya uhuru wa mshairi. **(alama 6)**
d) Tambua toni inayojitokeza kwenye shairi hili. **(alama 2)**
e) Andika ubeti wa **nne** kwa lugha tutumbi. **(alama 4)**
f) Eleza maana ya maneno haya kama yalivyotumika katika shairi . **(alama 2)**
    i. Lebasi
    ii. Punje ukiimezele

7. *Soma shairi lifuatalo kisha ujibu maswali*

Daima alfajiri na mapema
Hunipita na jembe na kotama
Katika njia iendayo kondeni
Kama walivyofanya babuze zamani
Nimuonapo huwa anatabasamu
Kama mtu aliye na kubwa hamu
Kushika mpini na kutokwa na jasho
Ili kujikimu kupata malisho.
Anapotembea anasikiliza
Videge vya anga vinavyotumbwiza
Utadhani huwa vimemngojea
Kwa usiku kucha kuja kumwimbia;
Pia pepo baridi kumpepea
Rihi ya maua zikimletea
Nao umande kumbusu miguu
Na miti yote hujipinda migongo;
Kumpapasa, kumtoa matongo;
Na yeye kuendelea kwa furaha
Kuliko yeyote ninayemjua
Akicheka ha ha ha ha ha ha…

Na mimi hubaki nikijiuliza
Kuna siri gani inamliwaza?
Au ni kujua au kutokujua?
Furaha ya mtu ni furaha gani?
Katika dunia inayomhini?
Ukali wa jua wamnyima zao.
Soko la dunia lamkaba koo;
Dini za kudhani zamsonga roho
Anayalimia matumbo ya waroho
Kuna jao gani linamridhisha?
Laiti angalijua, laiti angalijua!

Maswali

a) Fafanua hali ya mzungumzaji katika shairi hili. **(alama 5)**
b) Tambua aina **tatu** za taswira zinazojitokeza katika ubeti wa pili wa shairi hili. **(alama 3)**
c) Bainisha nafsi neni katika shairi hili. **(alama 1)**
d) Eleza toni ya shairi hili. **(alama 1)**
e) Bainisha vipengele **vinne** vya kimtindo katika shairi hili. **(alama 4)**
f) Pambanua muundo wa shairi hili. **(alama 4)**
g) Tathmini umuhimu wa maswali balagha katika shairi hili. **(alama 2)**

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SEHEMU E: FASIHI SIMULIZI

8. *Soma utumgo ufuatao kisha ujibu maswali yanayofuata*

Walikuja mahasidi, ah, walikuja
Nyayo zao zikirindima, ah, rindima
Kwa ghamidha ya uadui, oh uadui
Wali wakibeba sime
Wali wakibeba mata
Wali wakibeba mienge
Ya moto kutangazia
Kwao kuwasili

Walikuja kwa ndimi
zilizohimili cheche
matusi kutumwaiya
hawakujua ya kwamba
Mbele ya mhimili huno wetu
Wao wali vipora
Kwenye mlima wa sugu, walituvamia
Aliwakabili mbwene
Mwana wa ngwamba, ee mbwene
Aliwakabili mbwene kwa kitali kikali
Wali wametuteka ja samaki kwenye dema
Wali wamewapukutisha
Wetu mabarobaro
Aliwakabili mbwene
Ee mbene, mwana wa ngwamba
Aliwakabili
Kwa hamasa za ujana
Kwa uchungu wa kuumbuliwa
Wa wetu wana.

Aliwakabili mbene
Nao wakalipiza shambulizi
Kwa kujidai majagina
Walijibwaga uwanjani
Laiti wangalijua wanajikabidhi
Viganjani mwa mbwene
Aliwakabili mbwene , ee
Mwana wa ngwamba, shujaa asoshindwa

Alipigana kitali
Cha kufa na kupona
Kuiopoa jamii yetu kuirejesha hadhi yetu
Kuirejesha mifugo yetu
Kuwarejeshea wakulima vikataa vyao
Kuwaokoa vipusa wetu
Nyara waliotekwa, ati walipiza kisasi
Aliwakabili mwana wa ngwamba
Aliwakabili upepo wa kusi
Hata kikomo cha mapambano kilipofika
Wagundi walijua kwamba
Walikuwa na mwana, ee mwana
Mbwene, ee mwana wa ngwamba
Hakuwa na kifani, ee kifani
Alipigana nao, ee mwana wa ngwamba
Kwa siku kumi bila tonge wala tone la maji
Kwetu kukenda kicheko cha wokovu
Kwao kukenda kilio

Maswali

a) Huu ni wimbo wa sifa. Thibitisha kwa kutolea mifano **mitatu** kifunguni. **(alama 3)**

b) Bainisha sifa **tatu** za jamii ya nafsineni katika utungo huu. **(alama 3)**

c) Huku ukitolea mifano, bainisha vipengele **vinne** vya kimtindo ambavyo nafsineni ametumia kufanikisha uwasilishaji wa utungo huu. **(alama 4)**

d) Tungo za aina hii zinaendelea kufifia katika jamii yako. Fafanua hatua **nne** utakazochukua ili kuishawishi dhidi ya hali hii. **(alama 4)**

e) Jadili mbinu zinazoweza kutumiwa kukusanya na kuhifadhi data kuhusu vitanzandimi. **(alama 4)**

f) Fafanua njia **mbili** ambazo kwazo msikilizaji anaweza kuchangia katika uwasilishaji wa kipera hiki. **(alama 2)**

HUU NDIO UKURASA WA MWISHO

KCSE 2025 PREDICTION EXAM

POSSIBLE KCSE TEST 2

AGRICULTURE

443/1

PAPER 1

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTION TO CANDIDATES

1. *Write your name and index number in the spaces provided.*
2. *Sign and write the date or the examination in the spaces provided.*
3. *This paper consists of three sections A, B and C*
4. *Answer all questions in Section A and B in the spaces provided*
5. *Answer only two questions in section C in the spaces provided after question 24.*

FOR EXAMINERS USE ONLY

SECTION	QUESTION	MAX.SCORE	CANDIDATE SCORE
A	1-17	30	
B	18-21	20	
C	22 23 24	20 20 20	
TOTAL SCORE		90	

SECTION A (30 MARKS)

Answer all questions in this section in the spaces provided.

1. List two types of production functions. **(1 marks)**

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2. State two causes of blossom-end rot in tomatoes. **(2 marks)**

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3. List three factors that lead to successful grafting. **(1 ½ marks)**

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4. State two ways of overcoming the problem of hardpan in crop production. **(2 marks)**

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5. State two disadvantages of persistent use of pesticides in crop production. **(1 mark)**

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6. Outline two ways of increasing land productivity per hectare. **(1 mark)**

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7. Give four benefits of ridging in pyrethrum establishment in the field. **(2 marks)**

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8. List two deficiency symptoms of magnesium in crop production. **(2 marks)**

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9. In which two situations would a farmer prefer sexual propagation to asexual propagation**(2 marks)**

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10. Give four factors that determine the choice of a farming system practiced by a farmer**.(2 marks)**

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11. State four ways carried out to obtain an even and vigorous stand of sorghum production.

(2 marks)

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12. State four properties of soil that are influenced by its texture. **(2 marks)**

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13. Explain the difference between liquid capital and working capital in agricultural production **(2 marks)**

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14. Outline four activities that may be undertaken in organic farming. **(2 marks)**

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15. State three factors influencing demand of fruits in a market. **(1 ½ marks)**

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16. Outline four conditions where shifting cultivation is favourable. **(2 marks)**

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17. List four implements used in carrying out secondary cultivation. **(2 marks)**

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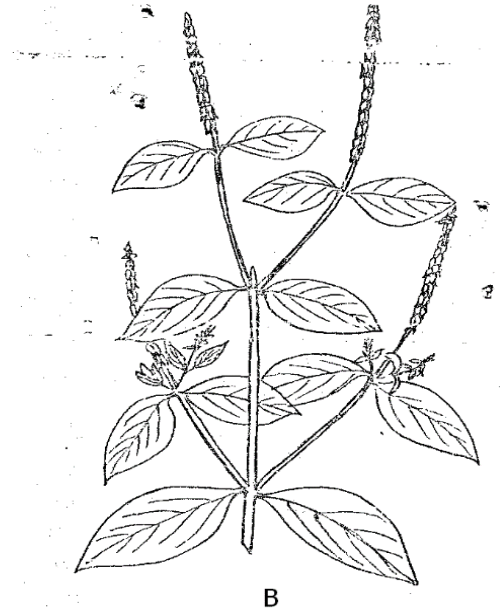
SECTION B (20 MARKS)

Answer all the questions in this section in the spaces provided. All working must be shown clearly where necessary

18. The diagrams below represents two weeds



A



B

a) Identify the weeds marked A and B in the diagrams above. **(2 marks)**

A ……

B ……

b) State one harmful effects of each of the weed marked A and B in livestock production **(2 marks)**

A

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B

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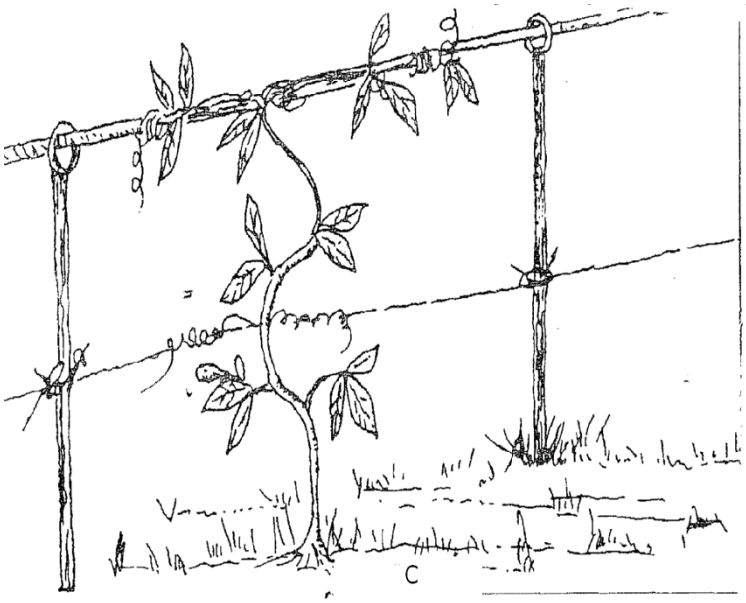
c) State one observable common feature in weed A. **(1 mark)**

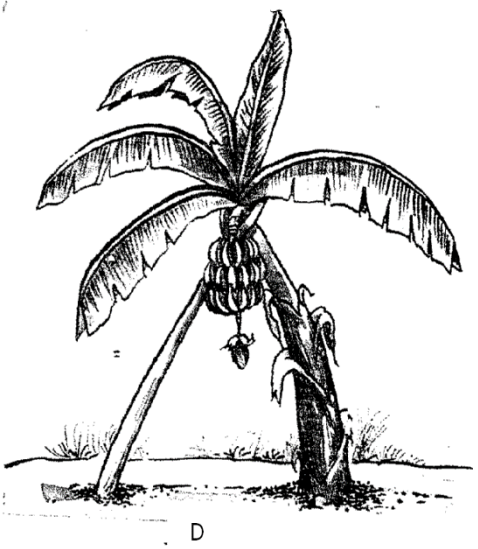
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19. The diagrams below illustrates a field management practice carried out in crops.





Identify the practices illustrated as C and D. **(2 marks)**

C ……

D ……

Name the most likely crop managed as illustrated in C above. **(1 mark)**

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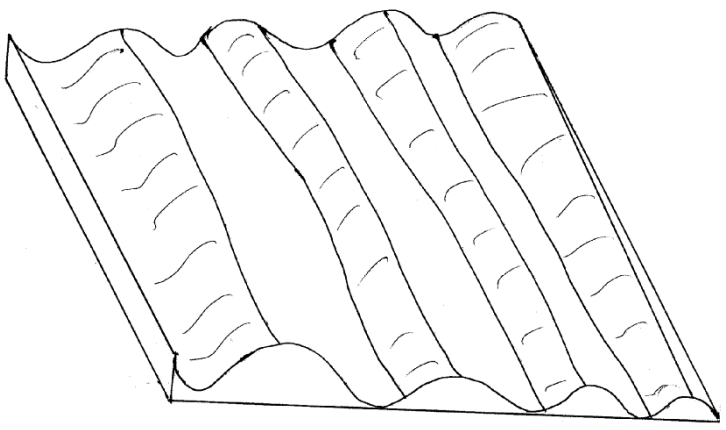
Give two reasons for carrying out the practice illustrated in C above. **(2 marks)**

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20. The diagram below illustrates a final seedbed after a tertiary operation done during land preparation. Study it carefully and answer the questions that follow



Name the tertiary operation carried out on the seedbed **(1 mark)**

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Describe how the tertiary operation named in (i) above is carried out. **(2 marks)**

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Give three advantages of planting crops on the final seedbed illustrated above**. (3 marks)**

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21. A farmer wanted to grow either wheat or sugarcane. Study the information provided below about the two crops and answer the questions that follow.

WHEAT

Yield per hectare=3000Kg
Labour requirement per hectare=100 man-day
Cost of labour=Kshs. 25 per man-day
Cost of seed=Kshs 100 per hectare
Cost of Tripple super phosphate=Kshs 3000 per hectare
Cost of Ammonia(S.A)=KShs. 1500 per hectare
Cost of Spray=Kshs. 500 per hectare
Price=Kshs. 20 per hectare

SUGARCANE

Yield per hectare=3500Kg
Labour requirement per hectare=50 man-day
Cost of labour=Kshs. 25 per man-day
Cost of seed=Kshs 1000 per hectare
Cost of single super phosphate=Kshs 1500 per hectare
Cost of Spray=Kshs. 100 per hectare
Price=Kshs. 18 per hectare

Calculate the gross margin of each of the crops. **(4 marks)**

SECTION C (40 MARKS)

Answer any two questions from this section in the spaces provided after question 24

22. Discuss rice production under the following subheadings

i) Ecological requirement **(4 marks)**

ii) Land preparation **(6 marks)**

iii) Weed control **(4 marks)**

Fertilizer application **(4 marks)**

Harvesting **(2 marks)**

23. a) A farmer has 30 hectares of arable land, 20 hectares of which is planted with maize and 10 hectares with grass hay. He wishes to replace 10 hectares of maize with irish potatoes next year. The fertilizer rate will have to be increased from 2 bags per hectare for maize to 4 bags per hectare for potatoes. As a result of the change extra 40 men days of casual labour per hectare will be necessary at the rate of Kshs. 100 per man a day. The average yield per hectare of maize is 35 bags and for potatoes 120 bags. The price paid is Kshs. 1000 per bag of maize and Kshs. 600 per bag of potatoes. Maize seeds cost Kshs. 750 per hectare and potatoes cost 8000 per hectare. Fertilizer costs is 650 per hectare. Draw up a partial budget and advice the farmer accordingly. **(10 marks)**

b) Outline the marketing functions in an agricultural market. **(10 marks)**

24. Describe the physical and cultural measures employed in the control of pests in crop production **(20 marks)**

KCSE 2025 PREDICTION EXAM

POSSIBLE KCSE TEST 2

AGRICULTURE

443/2

PAPER 2

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

1. *Write your name and index number in the spaces provided.*
2. *Sign and write the date or the examination in the spaces provided.*
3. *This paper consists of three sections A, B and C*
4. *Answer all questions in Section A and B in the spaces provided*
5. *Answer only two questions in section C in the spaces provided after question 24.*

FOR EXAMINERS USE ONLY

SECTION	QUESTION	MAX.SCORE	CANDIDATE SCORE
A	1-18	30	
B	19-22	20	
C	23 24 25	20 20 20	
TOTAL SCORE		90	

SECTION A (30 MARKS)

Answer all questions in this section in the spaces provided.

1) State four qualities of colostrums which make it suitable for feeding newly born calves.

(2 marks)

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2) State four advantages of using concrete in building farm structures **(2 marks)**

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3) Give two functions of a footbath in a plunge cattle dip **(1 mark)**

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4) Give two maintenance practices carried out on a tractor trailer. **(1 mark)**

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5) State four factors that would affect the digestibility in livestock. **(2 marks)**

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

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7) Name four diseases transmitted by ticks. **(2 marks)**

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8) State four advantages of using Biogas as a source of power in the farm. **(2 marks)**

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9) State four ways in which incubator should be managed for higher hatchability. **(2 marks)**

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10) State four factors that would determine the use of a jembe instead of a disc plough in primary cultivation. **(2 marks)**

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11) Give four management practices that should be carried out during mating season in sheep. (**2 marks)**

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12) State the difference between a vector and intermediate host in livestock production**.(1 mark)**

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13) Give two factors that contribute to the depreciation of farm equipment. **(1 mark)**

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14) Give four microbial activities that take place in the Rumen of a cow. **(2 marks)**

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15) State four factors that should be considered while **siting the apiary** for the bees**.(2 marks)**

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16) State four factors that may influence the pulse rate of a sheep. **(2 marks)**

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17) Give two reasons for taking birth weight of piglets. **(1 mark)**

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18) Give two reasons for holding animals for a short period in the outlet crush after dipping

(1 mark)

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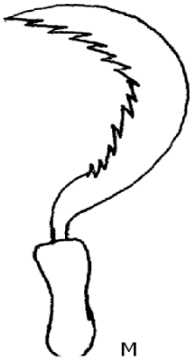
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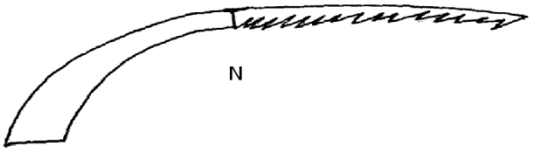
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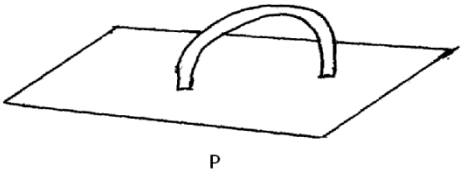
SECTION B (20 MARKS)

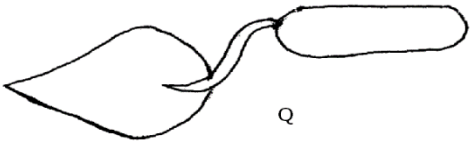
Answer all the questions in this section in the spaces provided. All working must be shown clearly where necessary

19) The diagrams B, C, D, E illustrate some structures used by a bee farmer. Use them to answer the questions that follow.









a) Identify the tools M, N, P and Q. **(2 marks)**

M ……

N ……..……..

P ……

Q ……

b) Give the use of each of the tools named in (a) above. **(2 marks)**

M

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N

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P

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Q

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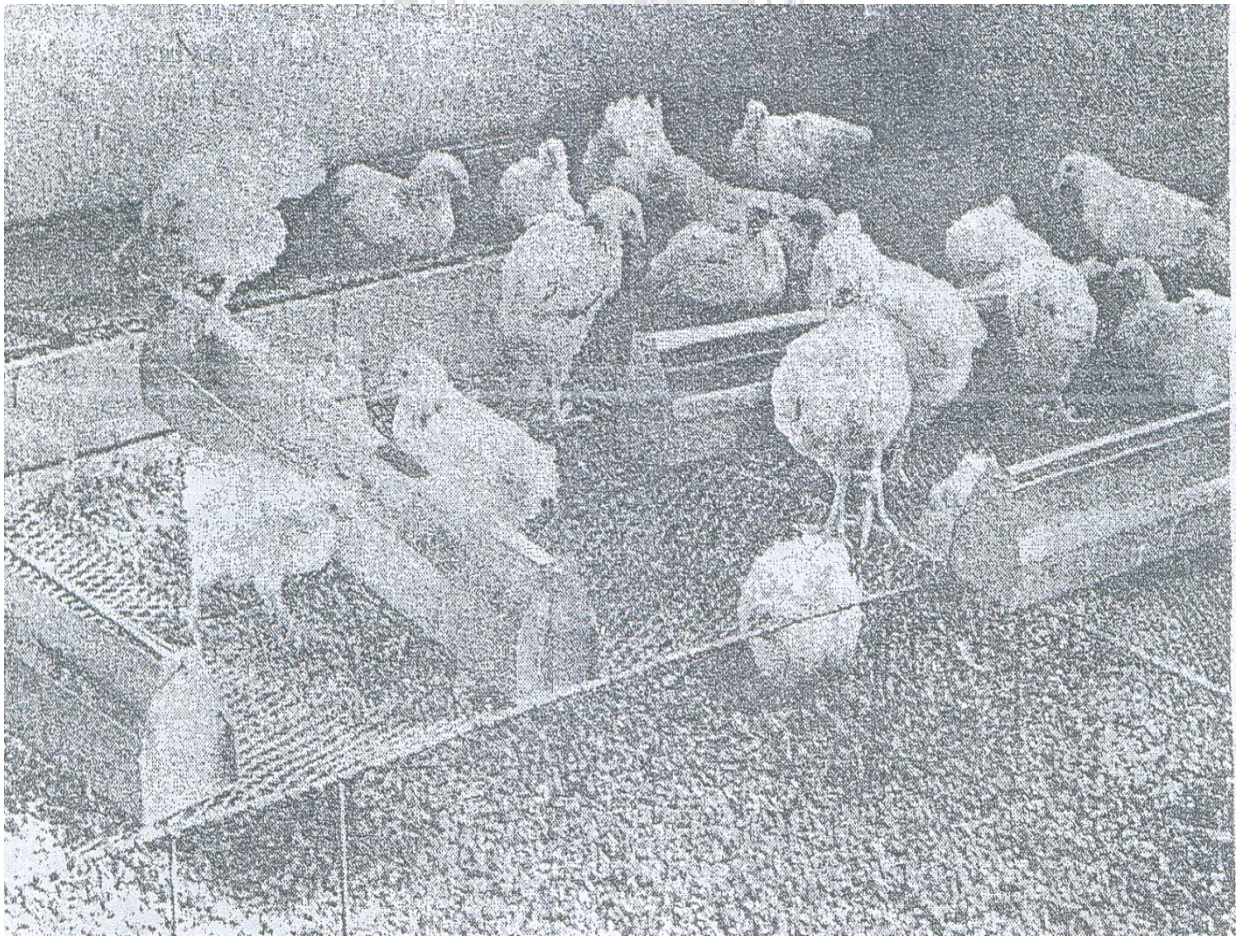
c) State two maintenance practices on the tool marked M. **(2 marks)**

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20) The diagram below shows a poultry rearing system. Study it carefully and answer the questions that follow.



Identify the poultry rearing system. **(1 mark)**

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List two advantages of this system of rearing layers **(2 mks)**

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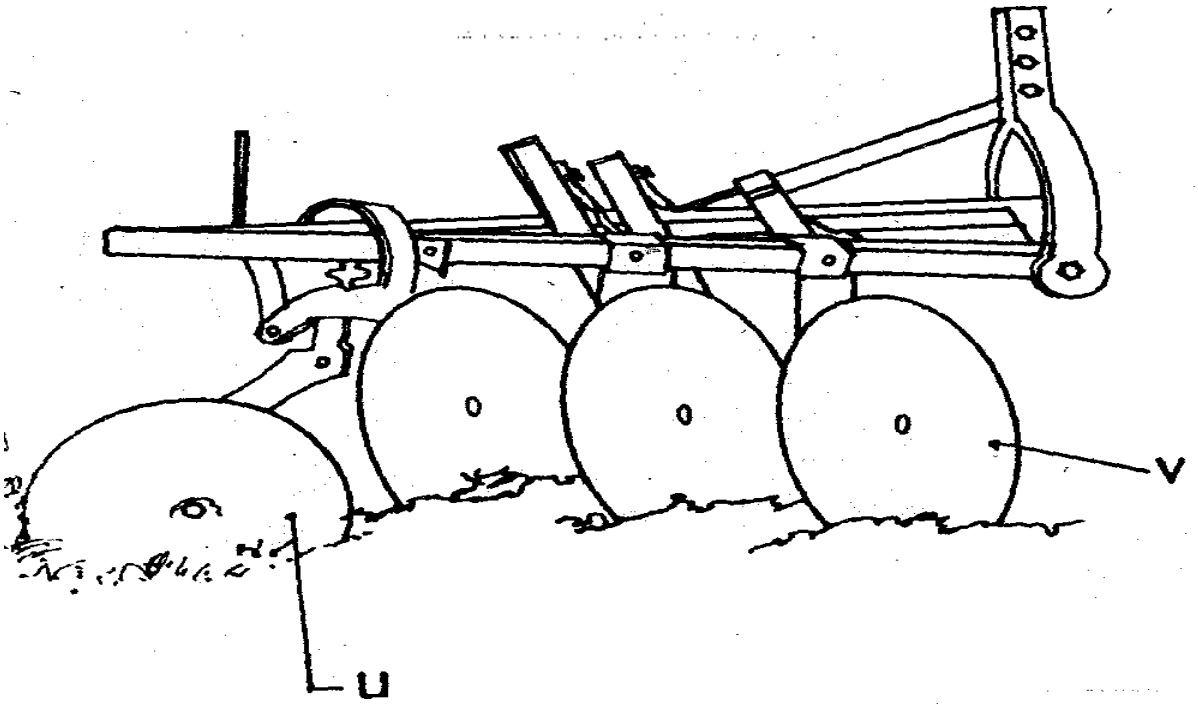
How is suffocation and death of chicks avoided in such a system? **(2 mks)**

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21) The diagram below represents an implement.



Identify the implement. **(1 mark)**

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Name the parts labeled U and V and give one function of each. **(2 marks)**

U

V

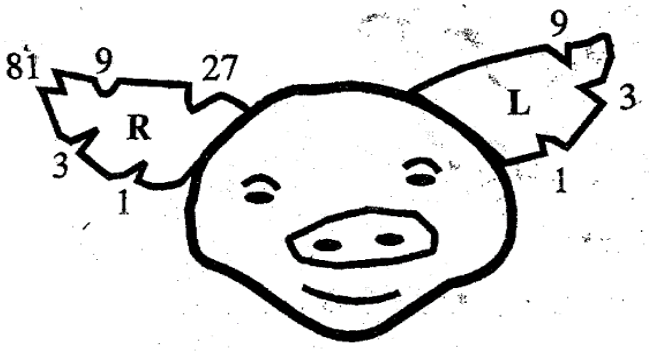
State two ways of adjusting the depth of ploughing using the implement. **(2 marks)**

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22) Study the diagram below carefully and answer the questions that follow.



Key:
R Litter number
L Individual number

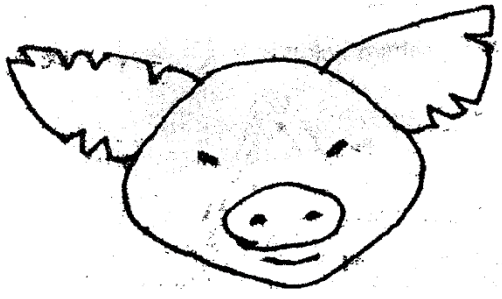
a) Name the livestock routine practice illustrated above. **(1 mark)**

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Name one tool that may be used in carrying out the operation in (a) above. **(1 mark)**

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c) Study the diagram below and then give an interpretation of the individual number and litter number of the animal. **(2 marks)**



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SECTION C (40 MARKS)

Answer any two questions from this section in the spaces provided after question 25

23. a) Describe the procedure of harvesting honey from a top bar hive**.** **(9 marks)**

b) Describe the extraction of honey from combs using the heat method. (**6 marks)**

c) Outline the reasons why bees swarm. **(5 marks)**

24. Describe the production of beef cattle from time of selection of breeding gestation to calving **(20 marks)**

25. a) Describe the life cycle of two host tick **(7 marks)**

b) Explain the measures used to control external parasites in livestock production.**(6 marks)**

c) Outline the factors considered in ensuring efficient working by oxen. **(7 marks)**

KCSE 2025 PREDICTION EXAM

POSSIBLE KCSE TEST 2

BUSINESS STUDIES

565/1

PAPER 1

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS

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

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

c) *Answer all the questions.*

d) *All answers should be written in the spaces provided in this booklet.*

e) ***Candidates should answer all the questions in English.***

For Examiner's Use Only

Question	1	2	3	4	5	6	7	8	9	10	11	12	13
Marks													

Question	14	15	16	17	18	19	20	21	22	23	24	25
marks												

Total marks

INSTRUCTIONS:

Answer all the questions in the spaces provided.

1. **List** four external factors that may influence the operations of a business. **(4 mks)**

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2. Outline four features of labour as a factor of [production. **(4 mks)**

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3. **State** whether the commodity or service given in the table below would satisfy a basic human want or a secondary human want. **(4 mks)**

Commodity Service	**Class of human want**
Education	
Housing	
A packet of rice	
Entertainment	
Hair cut	
Green Grains	
A car	
Shirt	

4. The information given below was extracted from the books of Birika Traders on 31st December 2023.

Debts	Amount (Kshs)
Furniture & fittings	234,000
Debtors	67,500
Capital	157,900
Commission earned	13,200
Creditors	34,750
Drawings	21,800
5 years Bank loan	114,400
Discount received	3000

Required: Prepare Birika Traders Trial Balance as at 31st December, 2023

5. State any four money transfer facilities offered by commercial banks. **(4 mks)**

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6. Highlight four circumstances under which a firm may be located near the source of raw materials. **(4 mks)**

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7. Outline four channels for distributing locally manufactured products to local consumers.

(4 mks)

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8. Apart from the forces of demand and supply, list four other ways in which the price of a product may be determined. **(4 mks)**

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9. Outline four difficulties that a country with a young population may experience**.(4 mks)**

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10. Identify the source documents from which the information posted in the following journals would be extracted.

Journal	**Source document**
Sales journal	
Purchases journal	
Cash receipt journal	
Sales journal	

11. State four sources of government revenue. **(4 mks)**

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12. Outline four features of money that enable it to facilitate the exchange of goods and services. **(4 mks)**

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13. Apart from trains and motor vehicles, state four other means of transporting goods and people on land. **(4 mks)**

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14. List four sources of business ideas. **(4 mks)**

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15. Identify the retailers described in the statements given below.

Statement	Retailer
Sells goods by displaying them along the streets	
Moves from one place to another on foot selling their goods	
Dispenses goods to the use of an operated machines	
Meet on designated days in open grounds to sell their goods	

16. The following transaction was extracted from the books of Kuria business on 31st March 2022

Stock (01/04/2023)	8000
Stock (31/03/2024)	9000
Purchases	4500
Sales	21000

Calculate:

(i) Margin **(2 mks)**

(ii) Rate of stock turnover **(2 mks)**

17. Outline four reasons for the popularity of WhatsApp as a trend in communication**.(4 mks)**

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18. State four circumstances under which an insured may not be compensated. **(4 mks)**

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19. State four reasons for privatizing public corporations. **(4 mks)**

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20. Outline four qualities of a successful sales person. **(4 mks)**

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21. The table below shows general changes over a period of five years. **(4 mks)**

Year	Price(Ksh)	C.P.I.
2010	90.00	100
2011	100.80	
2012	103.50	
2013	105.30	
2014	108.00	

Using year 2010 as the base year, determine the consumer price index for the years 2011, 2012, 2013 and 2014.

22. Outline four functions of World Bank. **(4 mks)**

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23. Highlight four benefits of national income statistics to the government. **(4 mks)**

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24. State four basic features of a market. **(4 mks)**

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25. The following is a format of the debit side of a three column cashbook.

Dr

Date		**V**	**W**	**X**	**Y**

Name the columns labeled; V, W, X and Y. **(4 mks)**

V –

W –

X –

Y -

KCSE 2025 PREDICTION EXAM

POSSIBLE KCSE TEST 2

BUSINESS STUDIES

565/2

PAPER 2

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *Write your name and index number in the spaces provided above.*
b) *Sign and write the date of the examination in the spaces provided above.*
c) *This paper consists of 6 questions.*
d) *Answer any **five** questions in the spaces provided.*
e) *All questions carry equal marks*
f) *Non –programmable silent electronic calculator may be used.*
g) *Candidates must answer the questions in English.*

FOR EXAMINER'S USE ONLY

Question	Maximum score	Candidate's score
	20	
	20	
	20	
	20	
	20	
TOTAL		

QUESTIONS

1) (a) Explain five factors that promote entrepreneurship in Kenya, **(10mks)**

(b) Explain five principles that would lead to effective use of government resources. **(10mks**

2) (a) There has been a decline in the demand for wooden furniture, Explain five factors that may have caused this trend. **(10mks)**

3) (b) Explain five differences between a sole proprietorship and a public limited company. **(10mks)**

4) The following information relates to Bahati enterprises.

Details	shs
Stock 1st January 2024	430,000
Purchases	930,000
Sales	1,155,000
Carriage outwards	25,000
Carriage inwards	10,000
Returns outwards	20,000
Returns inwards	30,000
General expenses	100,000
Insurance	25,000
Stock 31st Dec 2024	470,000

Calculate:

Turn over **(1mk)**

Rate of stock turn over **(3mks)**

Mark up **(2mks)**

Margin **(2mks)**

Net profit **(2mks)**

b) Outline five benefits of a business to the society. **(10mks)**

(a) Describe five accounting documents used in home trade **(10mks)**

(b) Using a diagram explain the circular flow of income in a two sector economy.**10mks)**

5) (a) Explain five trends in office management. **(10mks)**

(b) Explain five circumstances under which a producer may sell goods directly to the consumer. **(10mks)**

6) On 1st September 2015 Gondi had sh 55,000 in hand and 250,000 at bank, during the month the following transactions took place.

September 2: Cash sales banked sh 35,260

3 September: Bought ribbons in cash sh 4,500

8 September: Paid Wangala a creditor 94,000 by Cheque in full settlement of his account after deducting 6% cash discount.

12 September: Received a cheque of shs 58800 from Wetu after allowing her a cash discount of shs 1,200

15 September: paid salaries sh 34,000 cash

28 September: Anyango a debtor paid her account of 75000 by cheque less 10% cash discount.

30 September deposited all the cash into the bank except.

Required. Prepare a three column cash book and balance it off **(10mks)**

Explain five merits of direct taxes to the government **(10mks)**

KCSE 2025 PREDICTION EXAM

POSSIBLE KCSE TEST 2

PHYSICS

232/1

PAPER 1 (THEORY)

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO THE CANDIDATES:

a) *Write your* ***Name,Index Number*** *and* ***Signature*** *in the spaces provided above.*

b) *Answer* ***all*** *the questions both in section* ***A*** *and* ***B*** *in the spaces provided below each question*

c) *All workings* ***must*** *be clearly shown; marks may be awarded for correct steps even if the answers are wrong.*

d) *Let* $g = 10m/s^2$

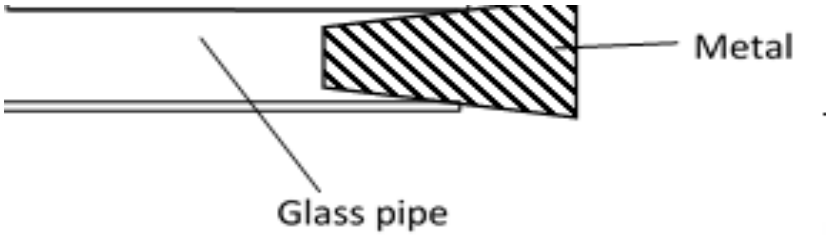
FOR EXAMINER'S USE

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1-10	25	
B	11	09	
	12	14	
	13	11	
	14	10	
	15	11	
TOTAL		80	

SECTION A 25 MARKS:

Attempt all the questions in this section

1. The figure below shows a piece of metal stuck in a hollow glass pipe. .Explain how temperature change may be used to separate **them** **(2mark)**



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2. Form four students were playing football game during which the ball got deflated. Explain what happened to its density **(2marks)**

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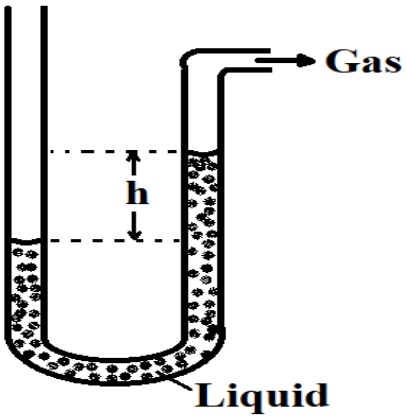
3. Micrometer screw gauge A has a zero error of – **x** mm. Micrometer screw gauge B has a zero error of **x** mm When used to measure the diameter of a tube the difference between their readings is 0.04mm. If the actual diameter of the tube is 5.56mm determine **x** hence state the reading of micrometer screw gauge A **(3 marks)**

4. A car of mass 1000kg travelling at a constant velocity of 40m/s collides with a stationary metal block of mass 800kg. The impact takes 3s before the two move together. Determine the impulsive force **(3marks)**

5. The figure below shows a drop of water about to fall from a pipette and after falling. Explain why the shapes of the drop are different **(2 marks)**



6. Figure shows a liquid manometer. The gas pressure is 755mmHg and that of the surround is 760mmHg. The height h is 80mm. Determine the density of the liquid. (Take density of mercury = 13600kgm^{-3} and g =10Nkg^{-1}) **(3 marks)**



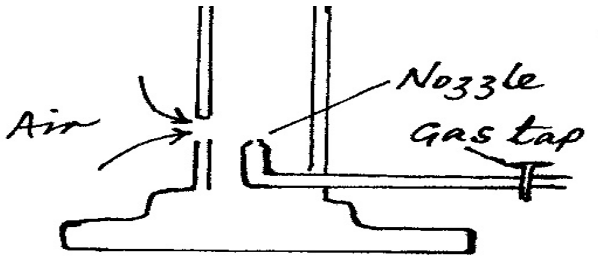
7. A student balances a V - shaped uniform wire on a tight string as shown in A and B. With reason state the one which is easier to do **(2marks)**



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8. The figure below shows a Bunsen burner. Explain how air is drawn into the burner when the gas tap is opened. **(2marks)**

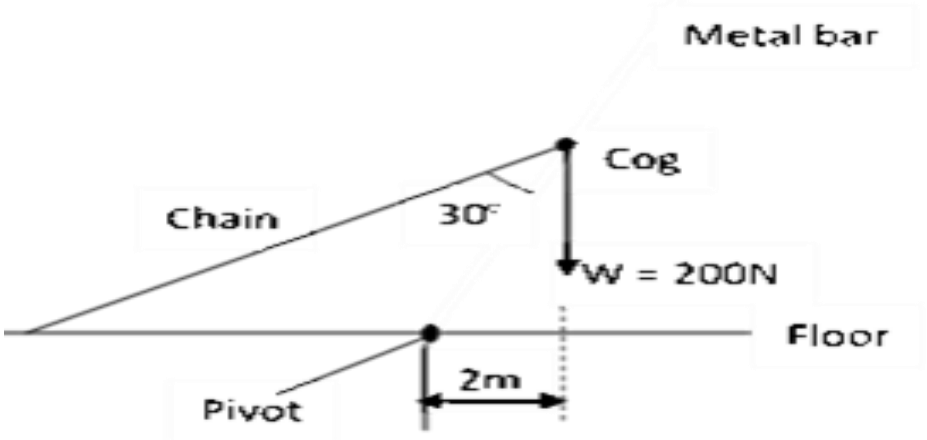


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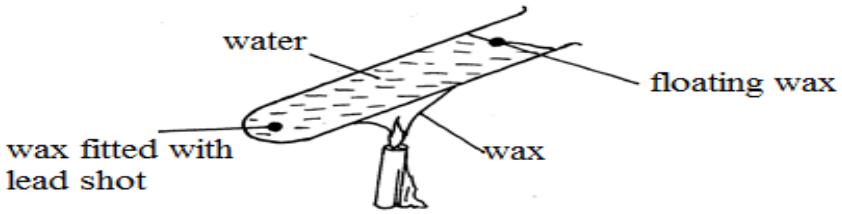
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9. The figure shows a uniform metal bar of length 10m and weight W = 200N held at equilibrium by a light chain fixed at the cog and tethered on the floor using a light chain. Determine the tension of the chain **(3marks)**



10. A student set up the apparatus as shown below. The boiling tube was heated in the middle as shown



a. State the role of the lead shot in the experiment **(1mark)**

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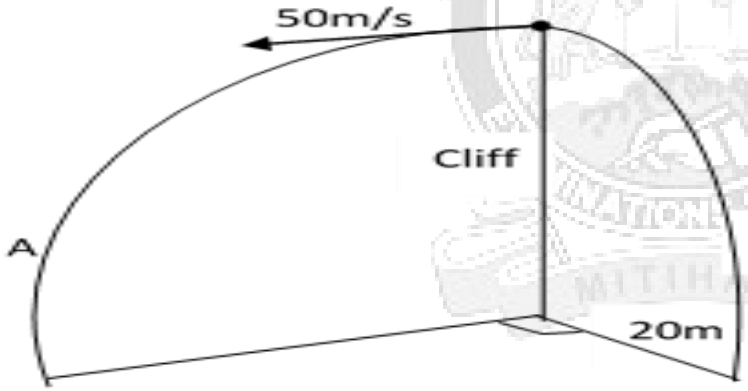
b. With reason, state the wax that will melt first **(2marks)**

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SECTION B 55 MARKS *Attempt all the questions in this section*

11. Marble A is projected horizontally from the top of a cliff at a velocity of 50m/s. The height of the cliff from its foot is 31.25m. At the same time another marble B is projected horizontally from the same point. The figure below shows the trajectories taken by the marbles



Determine

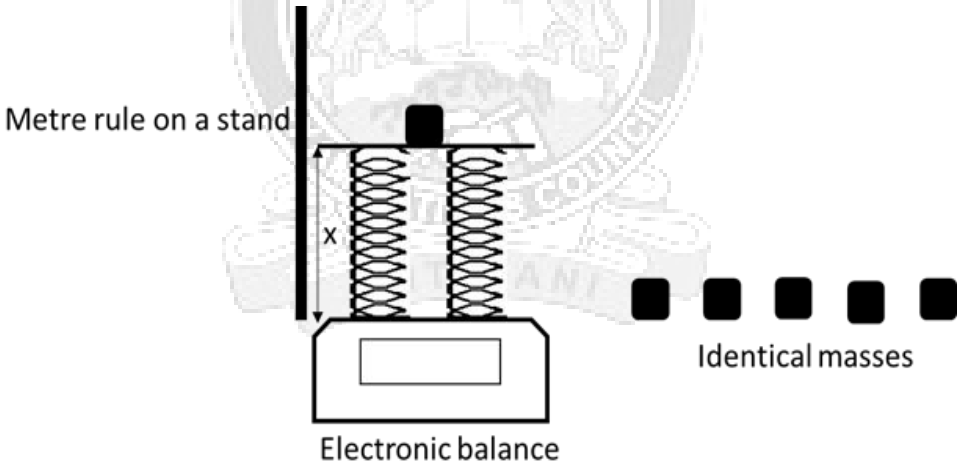
a. The distance of marble A from the foot of the cliff as it hits the ground **(3marks)**

b. Vertical velocity of marble A as it hits the ground **(2marks)**

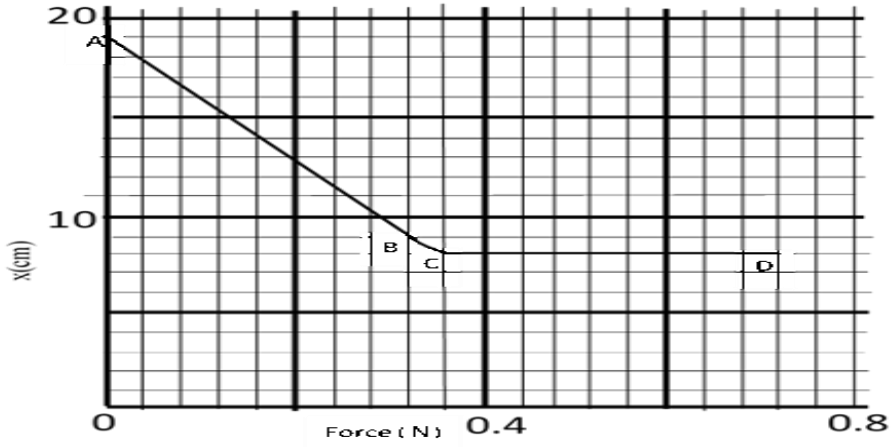
c. Horizontal velocity of marble B as it hits the ground **(2marks)**

d. The shortest distance between the marbles upon hitting the ground **(2marks)**

12. The figure below shows two identical light springsand other apparatus used in an experiment



After the data was collected the following graph was obtained



a. State two measurements taken in the experiment **(2mark)**

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b. Explain how the measurements can be used to come up with the graph **(2marks)**

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c. Explain the graph in sections

i. AB **(2marks)**

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ii. CD **(2marks)**

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d. Determine the spring constant of each spring **(3marks)**

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e. Determine the work done in section CD **(2marks)**

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f. On the same axes sketch the graph expected when the experiment is repeated using one of the springs only **(1mark)**

For Marking Schemes Contact 0746-222-000 / 0742-999-000

13. The figure **below** shows an inclined plane on which a trolley of mass 30kg is pulled up a slope by a force of 100N, parallel to the slope. The trolley moves so that its centre of mass travels from points A to B.



(i) Determined the work done on the trolley against the gravitational force in moving from **A** to **B**.

(2 marks)

(ii) Determine the work done by the force in moving the trolley from **A** to **B**. **(3 marks)**

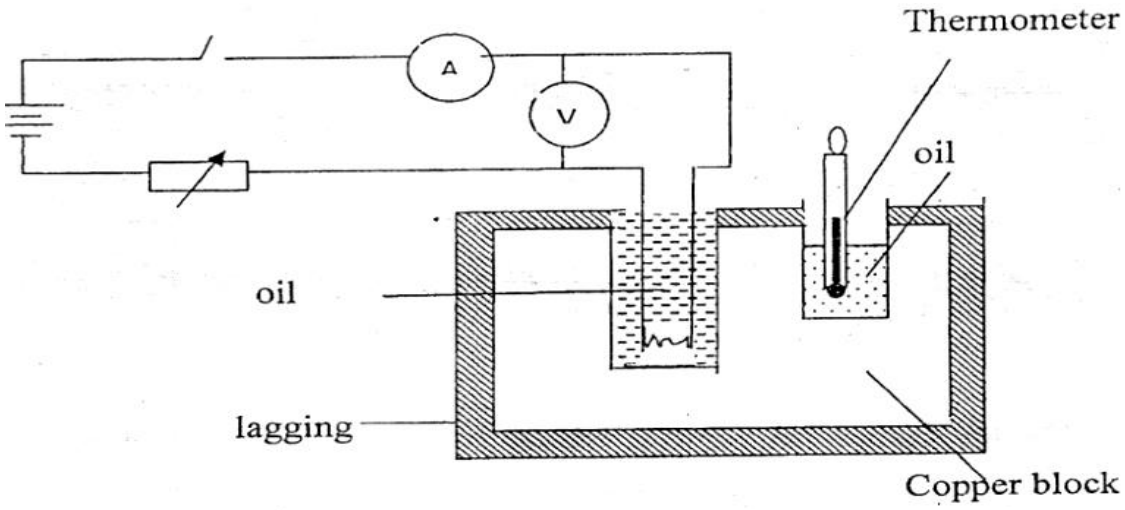
(iii) Determine the percentage of the work input that goes to waste **(3 marks)**

(iii) Determine the frictional force. **(1 mark)**

(v) Determine the mechanical advantage of the system. **(1 mark)**

(vi) Find the velocity ratio **(1 mark)**

14. a. The figure below shows a set-up that can be used to determine the specific heat capacity of a metal block.



I) Other than temperature and current, state **two** measurements that should be taken in the experiment to determine the specific heat capacity of the block**.** **(2marks)**

……

……

……

……

II) Describe how the method can be used to determine the specific heat capacity of the metal block. **(3marks)**

……

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III) State the purpose of oil in the set-up. **(1mark)**

……

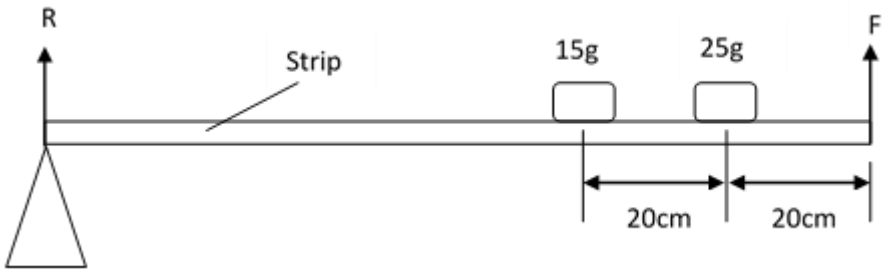
……

(ii) A well lagged copper can together with a copper stirrer of total heat capacity $60JK^{-1}$ contains 200g of water at 20^0C. Dry steam at 100^0C is passed in while the water is stirred until the content reach a temperature of 50^0C. Determine the mass of condensed steam. (Specific latent heat of vaporization of water is 2.26×10^6 J/kg and specific heat capacity of water is 4200 J/kgK)
(4marks)

15. a) A uniform metal strip is 3.0cm wide 0.6cm thick and 100cm long. The density of the metal is $2.7g/cm^3$.

I. Determine the weight of the metal strip. **(2marks)**

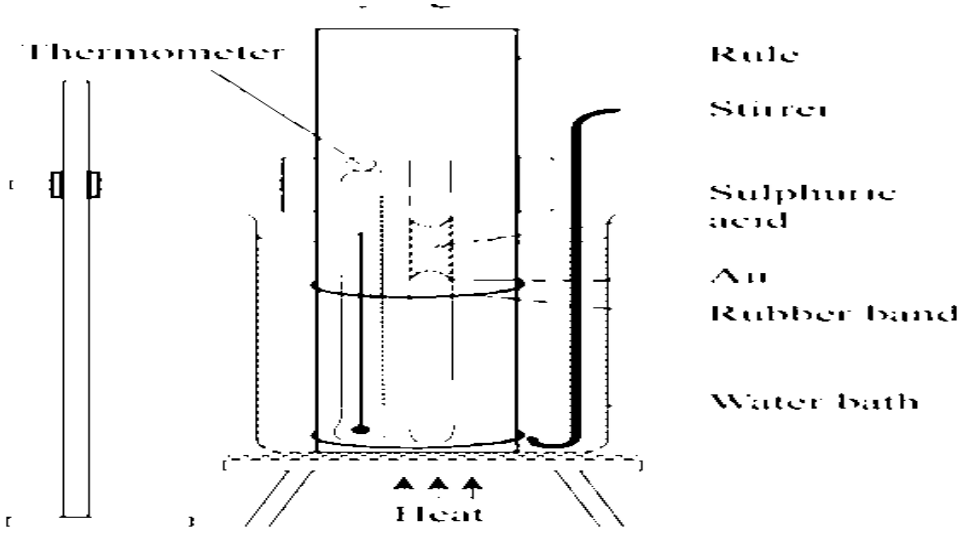
The strip is used to support two masses in equilibrium by applying force F as shown below.



II. Determine the value of F **(3 marks)**

III. Determine reaction R due to the pivot **(2 marks)**

b) The Figure belowshows a set up that may be used to verify a gas law.



I. State the law being verified **(1mark)**

……

……

II. State two functions of the concentrated Sulphuric acid in the experiment **(2marks)**

……

……

……

III. State one assumption in the experiment **(1mark)**

……

……

KCSE 2025 PREDICTION EXAM

POSSIBLE KCSE TEST 2

PHYSICS

232/2

PAPER 2 (THEORY)

TIME: 2 HOURS

NAME……

SCHOOL…… **SIGN**……

INDEX NO…… **ADM NO**……

Kenya Certificate of Secondary Education.

INSTRUCTIONS

a) *Write your name and your Index number in the spaces provided.*

b) *This paper consists of **two** sections, Section **A** and **B.** Answer **ALL** the questions in both section in the spaces provided in this paper.*

c) ***ALL** working must be clearly shown.*

d) *Mathematical tables and electronic calculators **may be** used.*

FOR EXAMINERS' USE ONLY.

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
A	1 - 12	25	
B	13	13	
	14	12	
	15	09	
	16	09	
	17	12	
		80	

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SECTION A (25MARKS)

Answer all the questions in this section

1. Figure (1) below shows two rays of light from an object reflected on a plane mirror

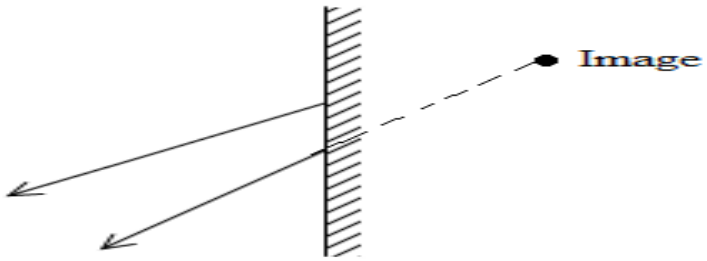


Fig 1.

Using proper ray construction, show the object position **(2marks)**

2. The fig 2 below shows a ray of light incident on a glass prism

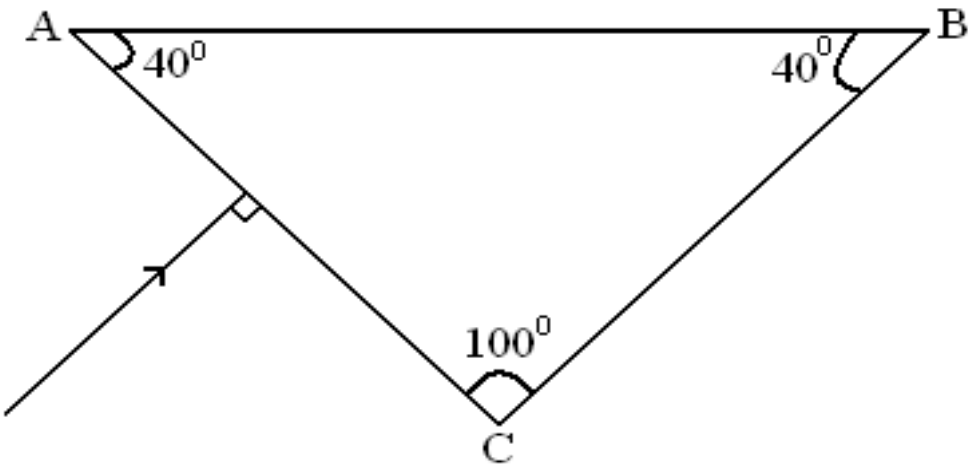


Fig2

Given that the critical angle for the grass is 39^0, **sketch** on the diagram the path of the ray through the prism. **(2 marks)**

3.The diagram on figure 3 shows the National Grid system.

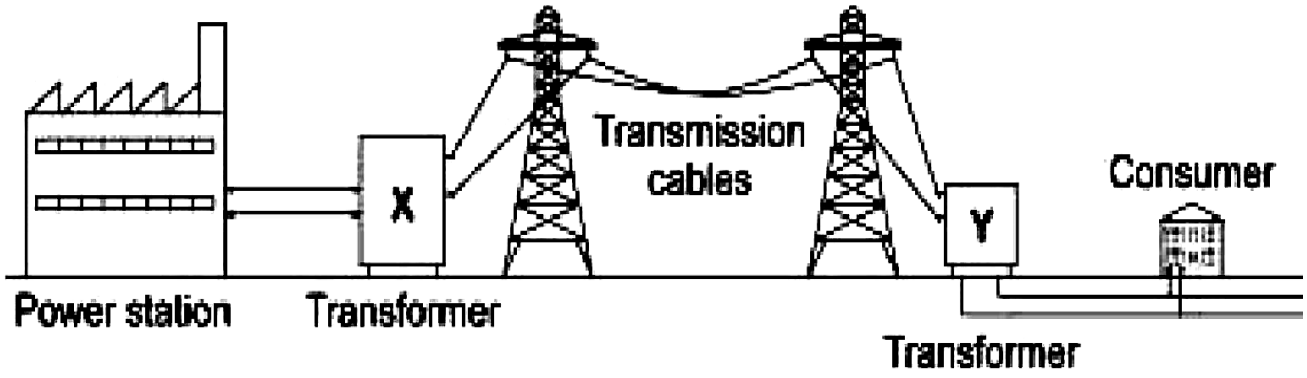


Fig3.

(a) What type of transformer is;

X…… **(1mark)**

Y…… **(1mark)**

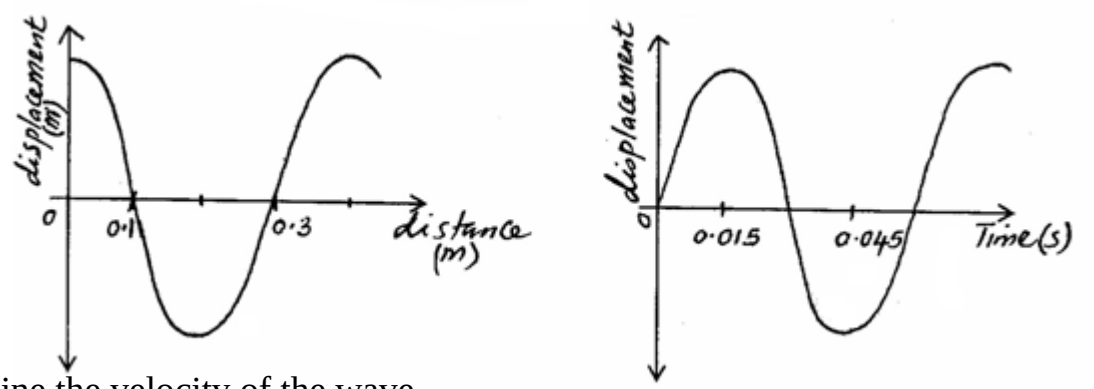
4. State **one** advantages of using circuit breakers in the consumer unit than using fuse wire.

(1marks)

……

……

5. The figures**below** shows two waveforms representing the same wave motion.



Determine the velocity of the wave. **(3mks)**

6. Figure 4. Below shows a 6V battery connected to an arrangement of resistors. Determine the current flowing through the 2Ω resistor. **(3marks)**

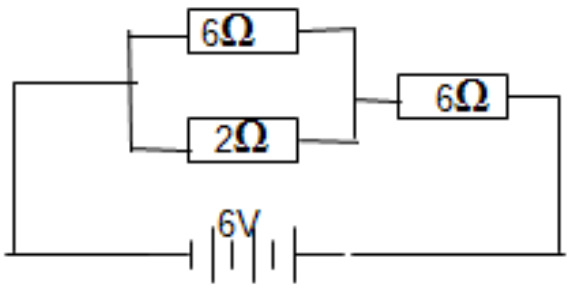


Fig 6.

7. The figure 7 below shows the electromagnetic spectrum.

Radio waves	Infra-red	A**A**	ultraviolet	B B	Gamma rays

(a) Identify A **(1 mark)**

……

(b) State one industrial use of B **(1 mark)**

……..

8. The diagram (Fig 8) shows a positively charged acetate strip and a negatively charged polythene strip that are freely suspended.



Fig8.

Two rods X and Y are brought up in turn to these two strips. Rod X attracts the acetate strip but repels the polythene strip. Rod Y does not repel either the acetate strip or the polythene strip.

State the type of charge is on each rod. **(2mks)**

X…….

Y……

9. State **<u>two</u>** advantages of an alkaline accumulator over lead acid accumulator. **(2mks)**

……

……

……

10. Figure 9 below show a **concave** lens and object.

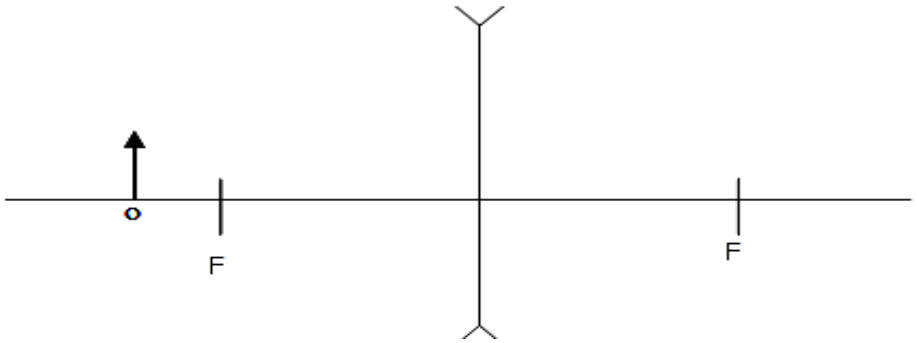


Fig 9.

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Sketch the rays to show the image formed. **(2marks)**

11. Two similar razor blades were placed on a wooden block and the other on an iron block as in **figure 10**.

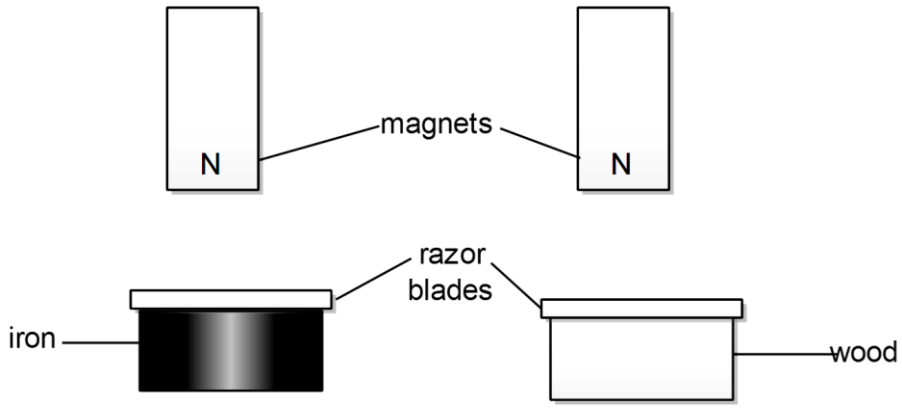


Fig 10.

It was observed that the razor blade on the wooden block is attracted by the magnet while that on the iron block was not.Explain. **(2 marks)**

……

……

……

12. The **figure 11** below shows water waves about to pass through a gap. One wave front is shown after it has passed through the gap.

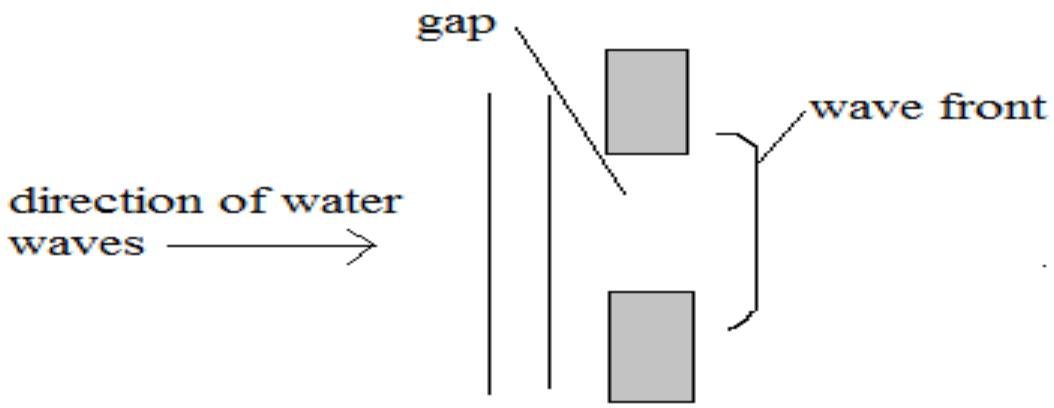


Fig 11

(i) On the diagram, draw two more wave fronts that have passed through the gap. **(1mark)**

(ii) State two changes which would each make the wave fronts become more curved after passing through the gap. **(1 mark)**

……

……

……

SECTION B (55MARKS)

Answer All The Questions In This Section.

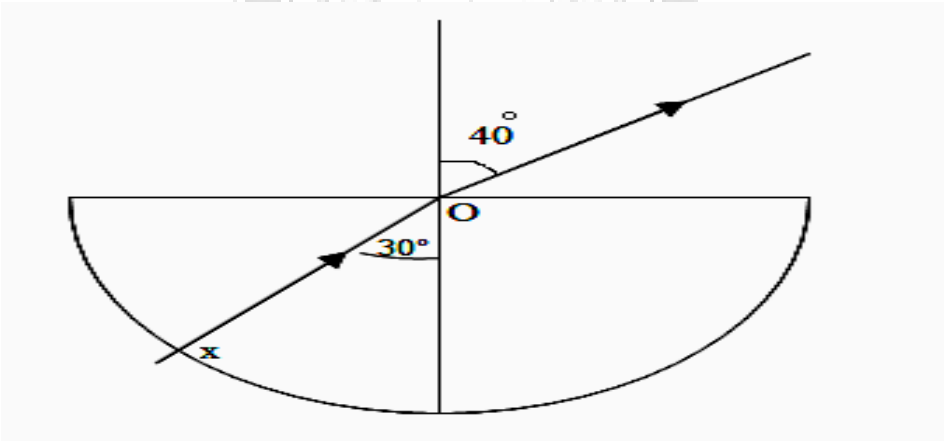
13.(a) State what is meant by refractive index of a material. **(1 mark)**

……

……

(b) Figure 12 represents a ray of light falling normally on the curved surface of a semi-circular plastic block at X, meeting the opposite face at an angle of incidence of 30^0 and emerging into the air at an angle of 40^0.

Fig 12



(i) State and explain what happens to the ray as it moves from:

I) Air to glass at X. **(1marks)**

……

……

II) From glass to air at O. **(1marks)**

……

……

(ii) Calculate refractive index of the plastic. **(3marks)**

……

……

……

……

(iii) State the conditions to be satisfied for total internal reflection to occur. **(2marks)**

……

……

……

(iv) Describe how the apparatus above could be used to find the critical angle experimentally. **(3marks)**

……

……

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……

……

(v) Calculate the critical angle for this plastic. **(2marks)**

……

……

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……

14. (a) State what is meant by the term capacitance. **(1marks)**

……

……

……

(b) Distinguish between a paper capacitor and an electrolyte capacitor. **(1marks)**

……

……

……

(c) State **two** factors that determine capacitance of a parallel plate capacitor **(2mks)**

……

……

(d) Figure 10 below shows a network of capacitors in series.

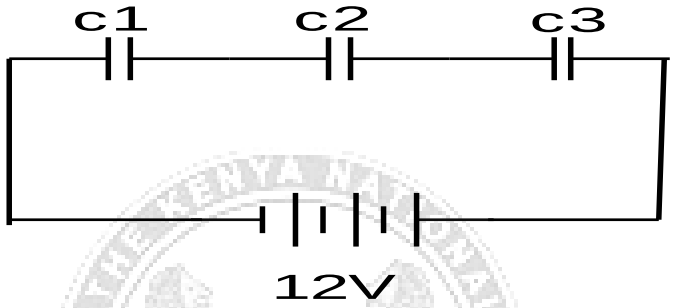


Fig 10.

(i) Derive an expression for their effective capacitance C_E from first principles. **(3marks)**

……

……

……

……

……

(ii) Given that C_1=10.5µF, C_2 =2µF and C_3= 3µF.

Calculate effective capacitance $C_E$in (2) above and hence

Determine the charge stored on each capacitor. **(3marks)**

……

……

……

……

……

(e) State two applications of capacitors. **(2marks)**

……

……

……

15.(a) Use the **figure 11** below to answer the questions that follows.

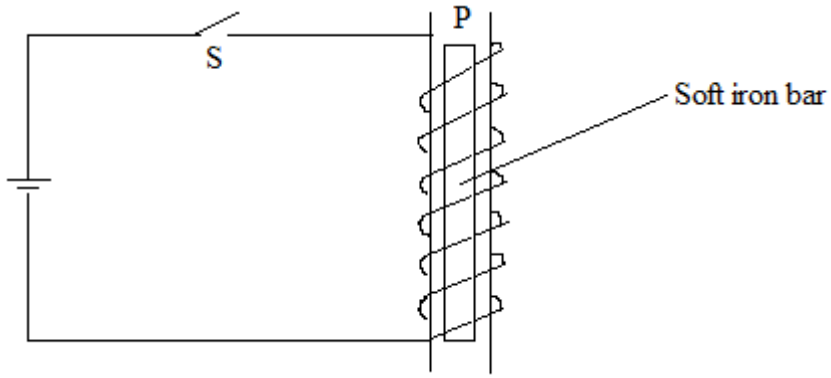


Fig.11

(i) Show the direction of the current on the turns when the switch S is closed. **(1marks)**

(ii) State the polarity at P **(1marks)**

……

(iii) Explain using domain theory what happens on the soft iron bar. **(1marks)**

……

……

……

(iv). If steel bar was used instead, what could be the difference? **(2marks)**

……

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……

(b) The following diagram (**figure 12**), shows a part of an electric d.c motor.

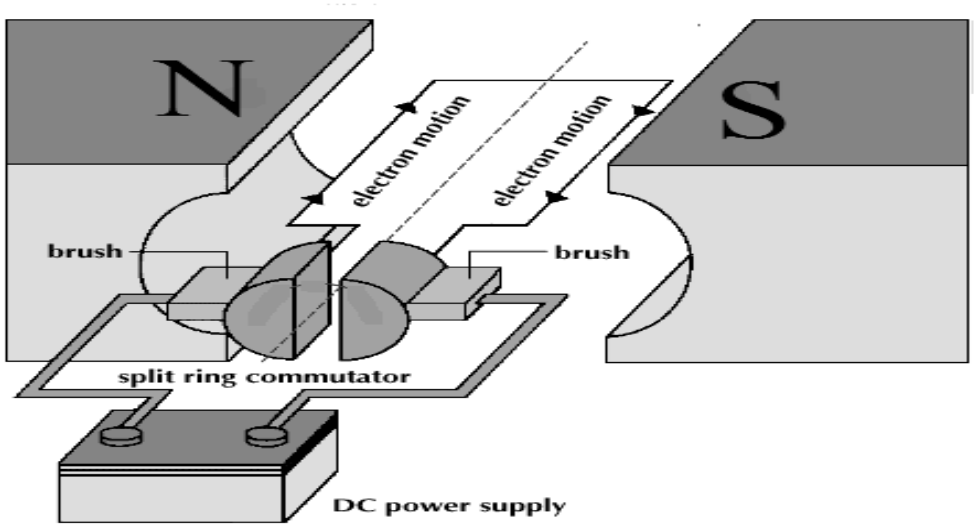


Fig 12.

(i) On the diagram above show the direction of rotation of the coil. **(1marks)**

(ii) State the effect of increasing the number of turns of the rotating coil of an electric motor. **(1marks)**

……

……

(c) Sketch the magnetic field pattern around the conductor carrying current on figures 13 and 14 shown below. **(2marks)**

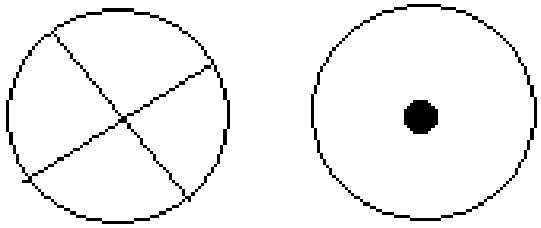


Fig 13. **Fig 14**

16(a) Distinguish between real image and a virtual image. **(2mks)**

……

……

……

……

(b) The distance between an objectand itsupright image produced by a curved mirror is 40cm. the image is 3 times as tall as the object

(i) State the type of mirror used. **(1mk)**

……

(ii) Determine the object distance **(2mks)**

……

……

……

(iii) Determine the radius of curvature of the mirror **(3 mks)**

……

……

……

……

(iv) State **one** application of the mirror as used in (b) above **(1mk)**

……

……

17(a) State **Ohm's Law**. **(1mk)**

……

……

……

(b) Explain why a 12V car battery is able to start the motor car engine while eight dry cells of 1.5 v each connected in series will not. **(2mks)**

……

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For Marking Schemes Contact 0746-222-000 / 0742-999-000

(c) In figure 15 the current in the circuit is 1.80A

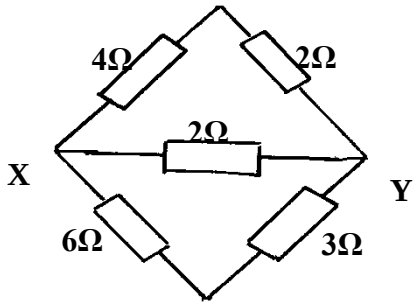


Fig 15

(i) Find the effective resistance between **X and Y**. **(3mks)**

……

……

……

……

……

(ii) The p.d of the source. **(2mks)**

……

……

……

(iii) Current through the 3Ω resistor **(2mks)**

……

……

……

(iv) Give two differences between a primary and a secondary cell **(2mks)**

……

……

……

……

For Marking Schemes Contact 0746-222-000 / 0742-999-000

KCSE 2025 PREDICTION EXAM

POSSIBLE KCSE TEST 2

PHYSICS

232/3

PAPER 3

TIME: 2½ HOURS

SCHOOL…… **SIGN……**

Confidential

The information contained in this **KCSE Physics Prediction paper** is to enable the head of the school and the teacher in charge of Physics to make adequate preparations for the **232/3 Physics** Practical examination.

No one else should have access to this information either directly or indirectly.

Each candidate will require the following.

- A milliammeter.
- A voltmeter (0 – 3V) or (0 – 5V).
- A wire mounted on a mm scale (Nichrome wire SWG 32)
- A switch.
- A long wire with a crocodile clip at one end (crocodile clip to be used as a slider or jockey).
- A micrometer screw gauge (may be shared).
- 5 connecting wires, two with crocodile clips at the end.
- One new dry cell size D.
- Cell holder.

QUESTION 2

EACH STUDENT REQUIRES

- ✓ Micrometer screw gauge (shared between 4 students)
- ✓ Vernier callipers
- ✓ Masses
  - ⬧ 10g
  - ⬧ 2 – 20g
  - ⬧ 50g
  - ⬧ 100g
- ✓ Helical spring (K = 0.08N/cm)
- ✓ Metre rule or half metre rule
- ✓ Complete retort stand

KCSE 2025 PREDICTION EXAM

POSSIBLE KCSE TEST 2

PHYSICS

232/3

PAPER 3 (PRACTICAL)

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *Answer all the questions in the spaces provided in this question paper.*

b) *You are supposed to spend the first **15 minutes** of the **2 ½ hrs** allowed for this paper reading the whole paper carefully before commencing your work.*

c) *Marks will be given for clear record of the observations actually made, their suitability, accuracy and the use made of them.*

d) *Candidates are advised to record their observations as soon as they are made.*

e) *Non-programmable silent electronic calculators and KNEC mathematical tables may be used.*

FOR EXAMINERS USE ONLY

QUESTION	MAX. SCORE	CANDIDATES SCORE
1	20	
2	20	
TOTAL	40	

For Marking Schemes Contact 0746-222-000 / 0742-999-000

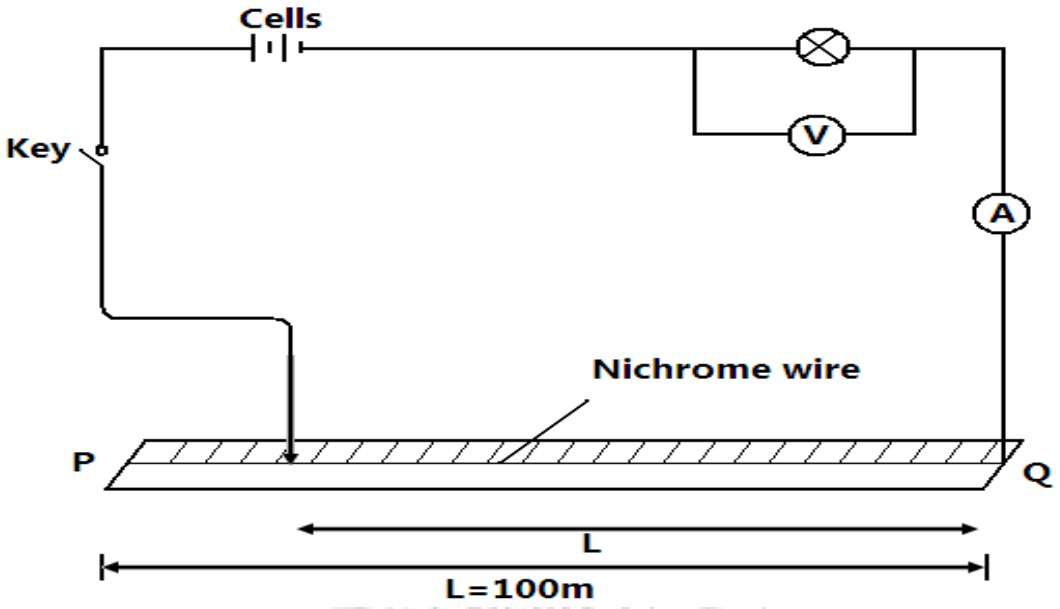
QUESTION 1 (20 MARKS)

You are provided with the following

-Two dry cell
-One bulb
-Voltmeter (0 – 3V)
-Ammeter (0 – 1A)
-Amounted nicrome wire mounted on a millimeter scale
-Switch
-Seven connecting wire at least two with crocodile clips
-Micrometer screw gauge

Proceed as follows:

a) i). Set up the circuit as shown in the figure 1 below.



ii) With the crocodile clip at p, take the voltmeter reading and ammeter reading. Record v and 1 repeat the readings for L=80, 60, 40, 20 and 0cm respectively and complete the table below**.**

(5mks)

Length, L(cm)	100	80	60	40	20	0
Voltage, V(V)						
Current, I (A)						

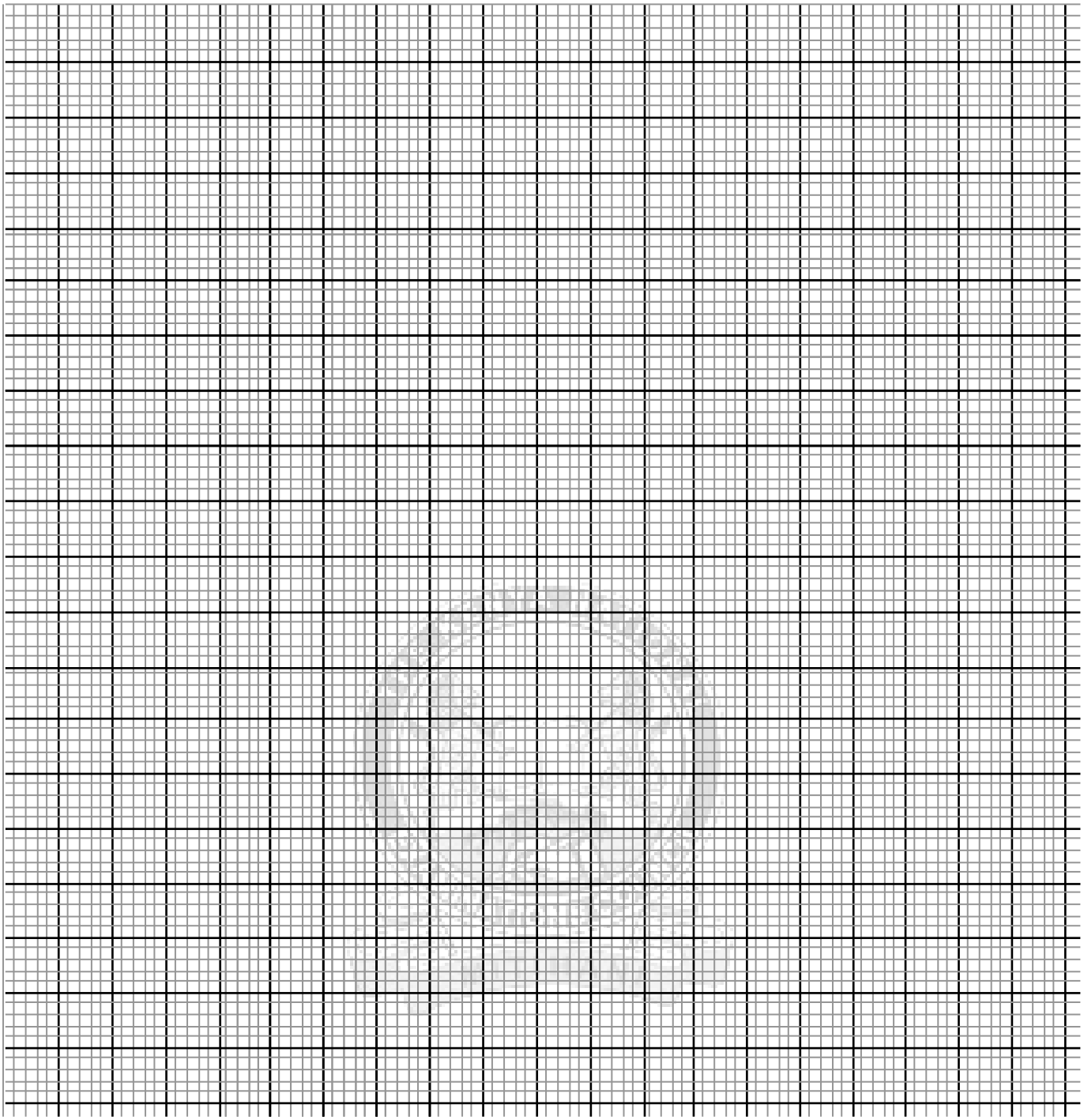
iii). What changes do you observe on the bulb as L decreases from p? **(1mrk)**

……

……

……

iv). Plot a graph of ammeter reading (y=axis) against voltmeter readings. **(5mrks)**



v). Determine the slope of the graph at V=1 volt. **(2mrks)**

vi). What physical quantity is represented by the slope of the graph at any given point?

(1mk)

b. (i) Given the apparatus in a (i) above, draw a diagram of the circuit you would use to determine the current through the resistant wire and the potential difference across.

(1mrk)

ii). Set up the circuit you have drawn. Record the ammeter reading I and the wire reading V when L=100cm

(2mks)

V=…… I=……..

iii). Using a micrometer screw gauge, measure the diameter of the wire. **(1mrk)**

d=……m

iv). Calculate the quantity:

p= 0.785 $\frac{(V)}{I}\frac{d^2}{L}$and give its units, where L is one meter. **(2mrks)**

Question 2

You are provided with the following:-

- Vernier callipers
- Micrometer screw gauge
- Masses; 10g, 20g, 50g and 100g
- A helical spring
- Metre rule or half metre rule

Proceed as follows

(a) Determine the number of complete turns of the helical spring.

N = _____ **(1 Mark)**

(b) Measure the external diameter of the spring using the vernier callipers

D = _____ m **(1 Mark)**

(c) Use the micrometer screw gauge to determine the diameter of the wire of the spring.

d = _____ m **(1 Mark)**

(d) Determine the value of m **(2 Marks)**

N = $\frac{0.4D}{dm}$

……

……

……

……

……

……

For Marking Schemes Contact 0746-222-000 / 0742-999-000

(e) Suspend the helical spring vertically alongside the clamped half metre rule as shown in figure 1 below. Determine the length L_0, of the spring before loading it.

L_0 = _____ cm

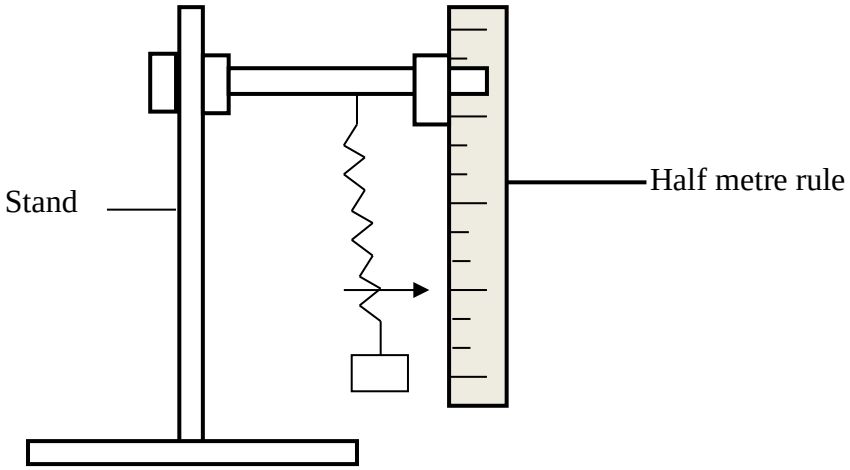


Figure 2

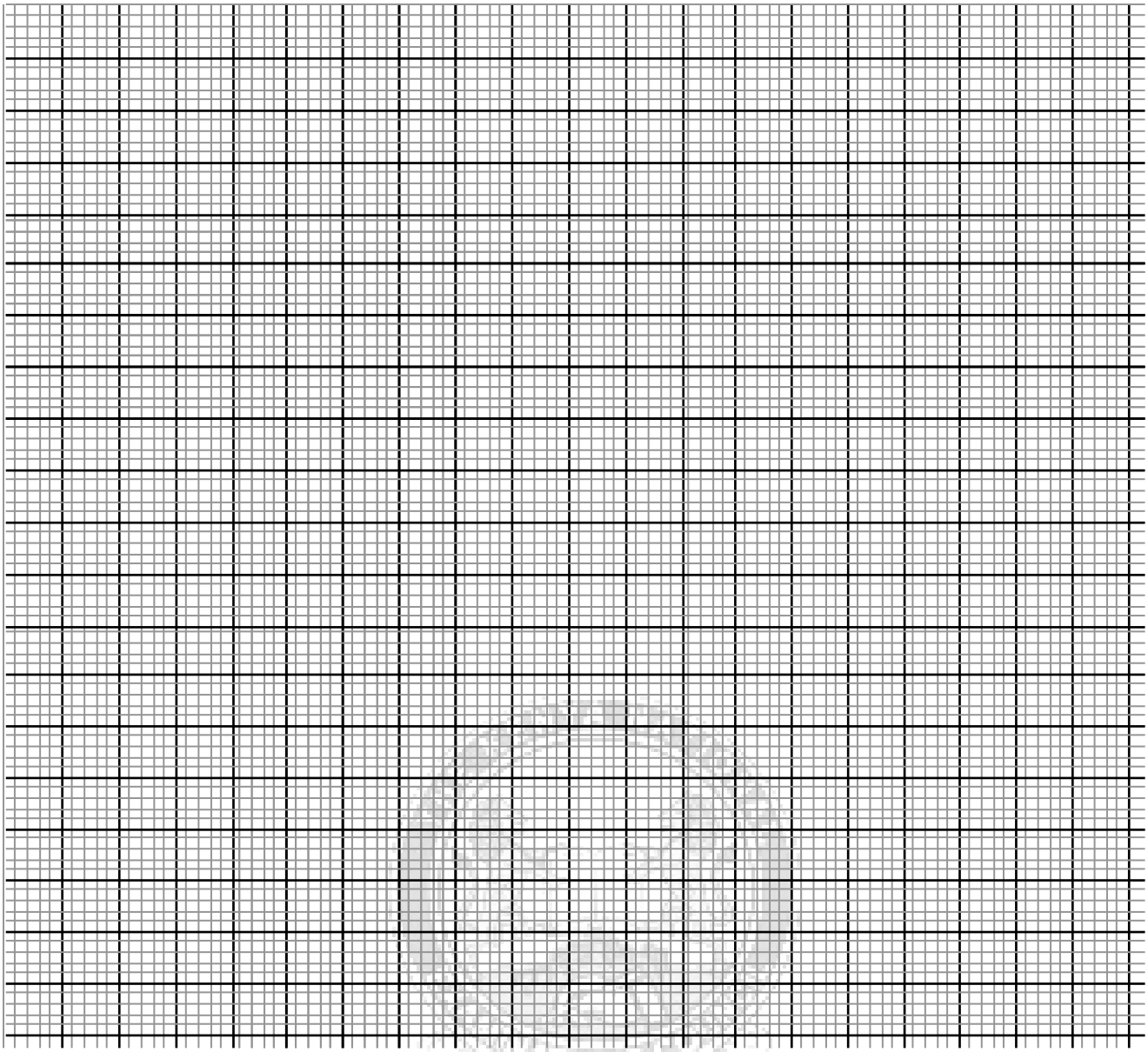
(f) Load the spring with a mass of 20g and determine the new reading on the metre rule. (L) Record this in the table below.

(g) Calculate the extension $e = L - L_0$ due to the mass of 20g and record the value in the table given below. Repeat step f for other masses and complete the table.

Mass (g)	0	10	20	30	40	50	60	70	80	90	100
Weight (N)											
Reading (L) (cm)											
Extension e (cm)											
$\frac{1}{e}$ (cm^{-1})											

(6 Marks)

(h) Plot a graph of weight (N) against $\frac{1}{e}$ (cm^{-1}) **(4 Marks)**



(i) Determine the slope (s) of the graph at a mass of 45g **(2 Marks)**

……

……

……

(j) Given that m = $\frac{-255T}{(S+60)^2}$

Determine the value of T where (S) is the slope at 45g **(3 Marks)**

……

……

……

……

KCSE 2025 PREDICTION EXAM

POSSIBLE KCSE TEST 2

CHEMISTRY

233/1

PAPER 1

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

Instructions To Candidates

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

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

c) Answer ALL questions in the spaces provided

d) Mathematical table and electronic calculators may be used.

e) ALL working MUST be shown clearly where necessary

f) Candidates should check the question paper to ensure that all pages are printed as indicated and no questions are missing

For Examiner's Use Only

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORES
1 – 25	80	

For Marking Schemes Contact 0746-222-000 / 0742-999-000

QUESTIONS

1. The table below gives information about ions of **A** and **B**

Ion	A^+	B^{2-}
Electron arrangement	2.8	2.8.8
Number of Neutrons	12	16

a) Write the electrons arrangement for the atom of **B** **(1mk)**

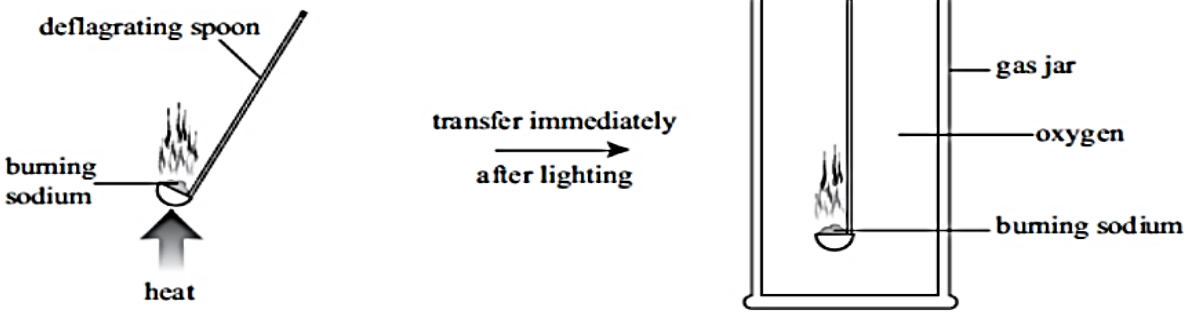
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b) Draw the atomic structure of A showing the composition the nucleus **(2mks)**

c) Write the formula of the compound formed when A and B reacts **(1mk)**

……

2. Sodium metal was warmed until it began burning. The burning sodium was lowered in a gas jar of oxygen as shown below.



(a) State the expected observations. **(2mks)**

……

……

……

(b) Some water was added to the product of this reaction and the resulting solution tested with blue and red litmus papers. State and explain the observations made**.** **(1mk)**

……

……

……

(c) Write a chemical equation for the reaction of

(i) Sodium with oxygen**.** **(1mk)**

(ii) Product with water**.** **(1mk)**

3. The melting point of phosphorous trichloride is -91^{o}C while that of sodium chloride is 801^{o}C. In terms of structure and bonding. Explain the difference in their melting point **(2mks)**

……

……

……

(b) Using dots (**.**) and crosses (x), show bonding in

(i) Sodium oxide. **(Na = 11, O = 8)** **(1mk)**

(ii) Hydroxonium ion, **H_3O^+ (H=1, O=8)** **(1mk)**

4. When solid Q_1 was heated, a gas which formed a white precipitate when passed through lime water was produced. The residue was dissolved in dilute nitric (V) acid to form a colourless solution Q_2. When dilute hydrochloric acid was added to solution Q_2 a white precipitate which dissolved on warning was formed.

(a) Write the formula of the;

I. Cation in solid Q_1 **(1 mark)**

II. Anion in solid Q_1 **(1 mark)**

(b) Write an ionic equation for the reaction between the residue and dilute nitric (V) acid **(1 mark)**

5. (a) Using electrons only, distinguish between oxidation and reduction **(2mks)**

(b) Identify the oxidizing agent in the reaction below and explain your answer **(2 mk)**

$CuSO_{4\,(}aq) + Mg_{(s)} \longrightarrow MgSO_{4(aq)} + Cu_{(s)}$

……

……

……

6. 200g of a radioactive substance was reduced to 12.5g in 20.8 years. Calculate the half-life of the **substance** **(2 mks)**

7. (a) Define graham's gas law**.** **(1mk)**

……

……

(b) Two containers, one with Nitrogen (IV) oxide and other with bromine simultaneously develop leaks, after 30 minutes, the smell of Nitrogen (VI) oxide is detected. How much longer will it take before bromine is detected. (N = 14, O = 16, Br = 80) **(2mks)**

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……

8. In the Haber process, the optimum yield of ammonia is obtained when a temperature of 450^0C, pressure of 200 atmospheres and an iron catalyst are used. Equation for the reaction is shown below.

$$N_{2(g)} + 3H_{2(g)} \rightleftharpoons 2NH_{3(g)} \qquad \Delta H = -92kJ.$$

How would the yield of ammonia be affected if:

i) Temperature raised to 600^0C **(1mk)**

ii) Pressure raised to 250 atmospheres. **(1mk)**

iii) The amount of catalyst doubled Explain. **(2mk)**

9. a) The ability of temporary hard water to conduct electricity falls when water is boiled but it is not much affected when the temporary hardness is removed by addition of washing soda (Sodium carbonate). Explain. **(2 mks)**

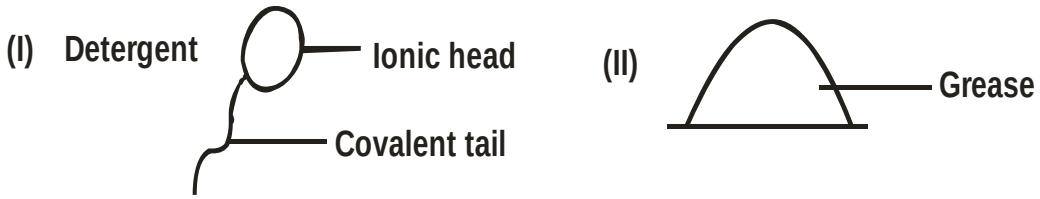
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b) Diagram (I) below is simple representation of a detergent material. Complete the diagram in (II) to show the orientation of the detergent in the grease and water occurs. **(1 mk)**



10. Describe how you would prepare crystals of sodium nitrate starting with 200 cm^3 of 2M sodium hydroxides. **(3 mks)**

……

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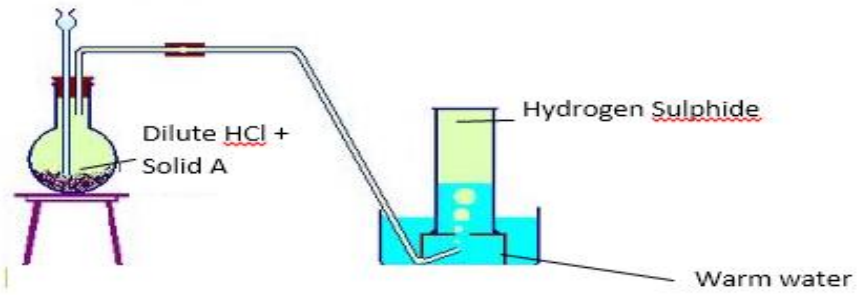
11.(a)Using equations only, differentiate the bleaching effect of Chlorine and Sulphur (iv) oxide **(2mks)**

……

……

……

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



Identify solid A. **(1mk)**

(i) Give a reason why warm water is used. **(1mk)**

(ii) What observation would be made if hydrogen Sulphide gas was bubbled into a solution of lead (II) nitrate. **(1mk).**

12. An oxide of copper in a porcelain boat was reduced by a stream of hydrogen. The results obtained were as follows;

Mass of porcelain boat = 4.5g

Mass of boat + Oxide = 6.40g

Mass of boat + Copper = 6.02 g

(i)Determine the empirical formula of the oxide. **(3 mks)**

(ii). If the relative formula mass of the oxide is 80, determine its chemical formula. (Cu = 64, O = 16**)** **(1 mk)**

13.(a) The table below shows the number of drops of soap solution needed to lather with $10cm^3$ of water.

Sample	Cold water	Heated water
A	5	5
B	6	2
C	2	2

b) Identify the anions likely to be in:

A…… **(1mk)**

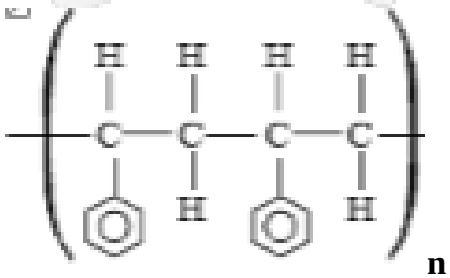
B…… **(1mk)**

c) State **TWO** methods used in removing permanent hardness of water**.** **(1mk)**

……

……

14. The formula given below represents a portion of a polymer.



n

a) Give the name of the polymer **(1mk)**

b) Give **one** industrial use of the polymer **(1mk)**

c) One disadvantage of the continued use of this polymer. **(1mk)**

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15. A piece of cover slip was weighed before and after a student made a circle on it using a pencil lid of pure graphite. The masses were as shown below;

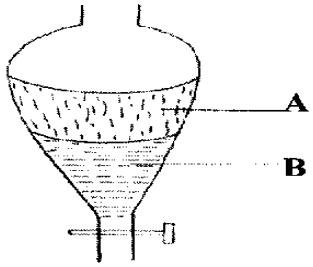
Mass of cover slip before = 1.804g

Mass after drawing the circle = 1.9053g

Determine the number of carbon atoms used to draw the circle. (C =12, L=6.00 x 10^{23})**(3mks)**

16. A mass of 40g of a saturated solution of potassium chlorate at 25^0C yields 14g of potassium chlorate when evaporated to dryness. Calculate the solubility of potassium chlorate at 25^0C. **(3mks)**

17. A mixture of kerosene, methylbenzene and water were shaken and left to separate out as shown in the diagram below.



(i)Identify liquids **A** and **B** **(2mks)**

A…….

B……

(i) A part from density, state **one** other property that makes it possible to separate them using the set up above? **(1mk)**

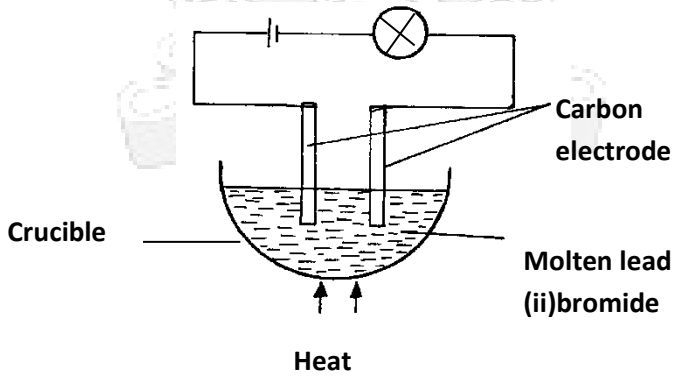
18. Volume of liquids can be measured using a pipette; measuring cylinder or burette. Which one would be best for measuring exactly 29.1cm^3 of liquid. **(1mk)**

19. The third number of the alkenes is converted to its corresponding saturated hydrocarbon by hydrogenation. Using the bong energy values given below, answer the questions that follow.

Bond	Bond energy kJ/Mol
H-H	432
C=C	610
C-C	346
C-H	413

Determine the enthalpy change for the conversion of the 4th member of the alkenes to its corresponding saturated hydrocarbon by hydrogenation. **(3mks)**

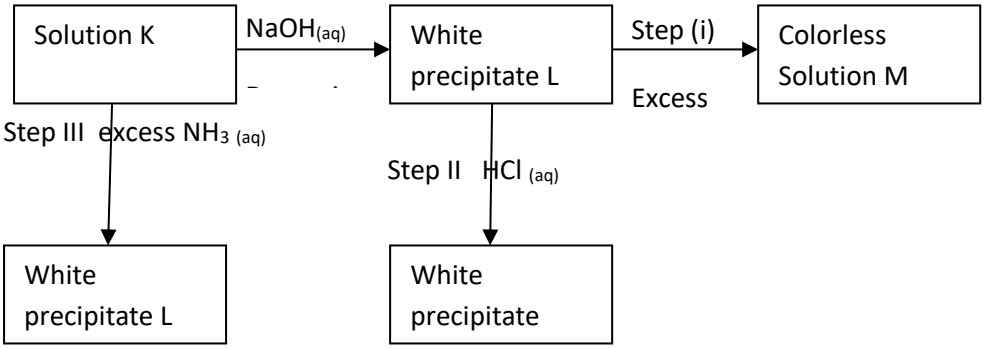
20. The set up below was used to electrolyze molten lead (II) bromide.



a) Explain why the bulb lights brightly at the beginning of the experiment and becomes dim after sometime **(2mks)**

b) Write ionic equation for the reaction that took place at the cathode **(1mk)**

21. Study the flow chart below and answer the questions that follow:



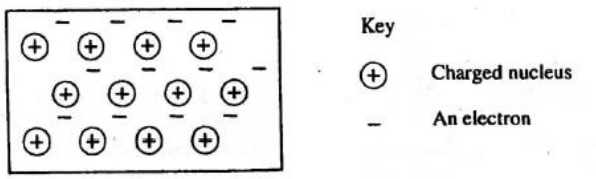
(a) Identify

(i) The cation present in solution K **(1mk)**

(ii) The white precipitate L **(1mk)**

(b) Write down the formula of the complex ion present in the colorless solution M **(1mk)**

22. The diagram below is a section of a model of the structure of element T.



(a) State the type of bonding that exists in T. **(1 mark)**

(b) In which group of the period table does element T belong? Give a reason. **(2 mks)**

23. (a). Describe how carbon (IV) oxide can be distinguished from Carbon (II) Oxide using calcium hydroxide solution. **(2 mks)**

……

……

……

(b)What is the role of carbon (IV) oxide in fire extinguishing? **(1 mk)**

……

……

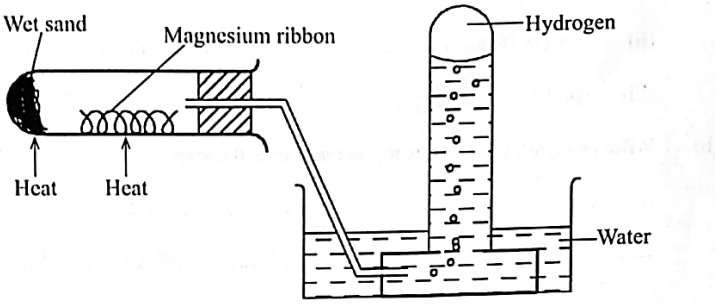
24. During extraction of iron in the blast furnace, state the uses of the following from the furnace.

a. Molten **slag** **(1 mark)**

b. Waste gases leaving the furnace. **(1 mark)**

c. Limestone **(1 mark)**

25. Hydrogen has can be prepared by passing steam over heated magnesium ribbon as shown in the figure below



(a) Write an equation for the reaction that produces hydrogen gas**.** **(1mk)**

(b) Explain why the delivery tube must be removed from beneath the water before heating is stopped. **(1 mark)**

(c) Explain why sodium metal is not suitable for this experiment. **(1mk)**

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KCSE 2025 PREDICTION EXAM

POSSIBLE KCSE TEST 2

CHEMISTRY

233/2

PAPER 2

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO THE CANDIDATES:-

- *Write your **Name** and **Admission number** in the spaces provided.*
- *Answer **ALL** the questions in the spaces provided.*
- *Mathematical tables and electronic calculators may be used*
- *All working **MUST** be clearly shown where necessary.*

For Examiners Use Only

Question	Maximum score	Candidate's score
1	11	
2	11	
3	9	
4	11	
5	8	
6	7	
7	12	
8	11	
Total	**80**	

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1. The table below shows some elements in the periodic table. Use it to answer the questions that follow. The letters are not the actual symbols of the elements.

1.									
									F
A	G		E		B		D		
C									

(a) Show the electron arrangement of ions of elements: **(1mk)**

A **……..**

B**……..**

(b) Show on the grid above the position of an element Y whose ion Y^{2-} has an electron configuration of 2.8.8. **(1mk)**

(c) Compare the following with explanation.

i) The reactivity of A and C. **(2mks)**

ii) Atomic radii of elements A and B. **(2mks)**

iii) The melting point of the oxide of element G and the oxide of D. **(2mks)**

(d) Name the type of bond formed when E and D react. Explain your answer. **(1mk)**

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(e) The ionic radius of element D is bigger than its atomic radius. Explain. **(2mks)**

2. The following are some standard electrode potentials of some elements. Use them to answer the questions that follow:

	Eθ volts
$A^{2+}_{(aq)} + 2e \rightleftharpoons A_{(s)}$	-0.28V
$B^{2+}_{(aq)} + 2e \rightleftharpoons B_{(s)}$	-0.40V

(a) Write the overall equation when the two half cells are combined **(1mk)**

(b) In the space below draw a diagram showing electrochemical cell when A and B are combined **(3mks)**

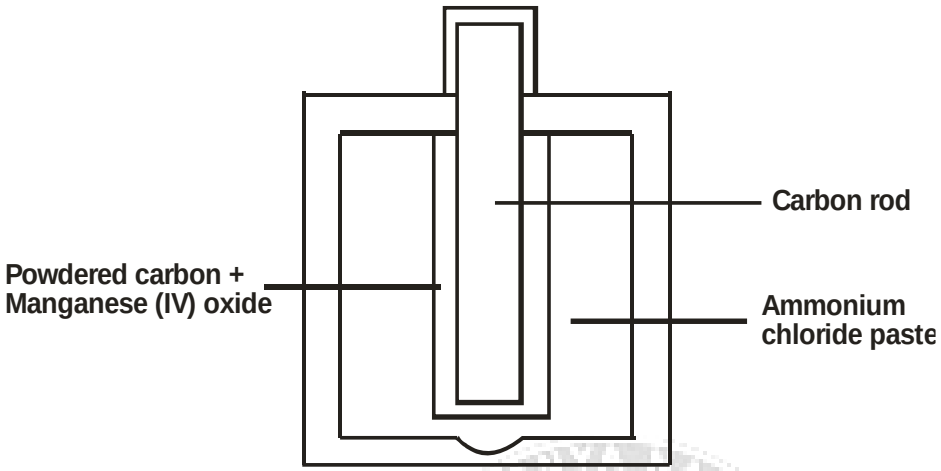
(c) During electrolysis of a divalent element G a current of 0.06 amperes was passed for 99 minutes. Determine the amount of metal G deposited at the cathode. (If =96500C, G=184) **(2 mk)**

(d) Give one uses of **electrolysis** **(½mk)**

……

……

(e) Below is a diagram of a dry cell.



(i) State the use of manganese (iv) oxide **(½ mk)**

(ii) Write an ionic equation for the reaction at the:

Anode- **(½ mk)**

Cathode- **(½ mk)**

(iii) Why is aluminum chloride used as a paste rather than a dry solid? **(1 mk)**

(iv) Draw a diagram to show how an aluminium spoon can be electroplated with copper.

(2 mks)

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3. A state of equilibrium between dichromate (VI) and chromate ions is established as shown in the equation below.

$Cr_2O_{7(aq)} + 2OH^-_{(aq)} \longrightarrow 2CrO_{4(aq)} + H_2O_{(l)}$

Orange Yellow

(a) (i)What is meant by dynamic equilibrium? **(1mk)**

(ii) State one characteristics of dynamic equilibrium **(1mk)**

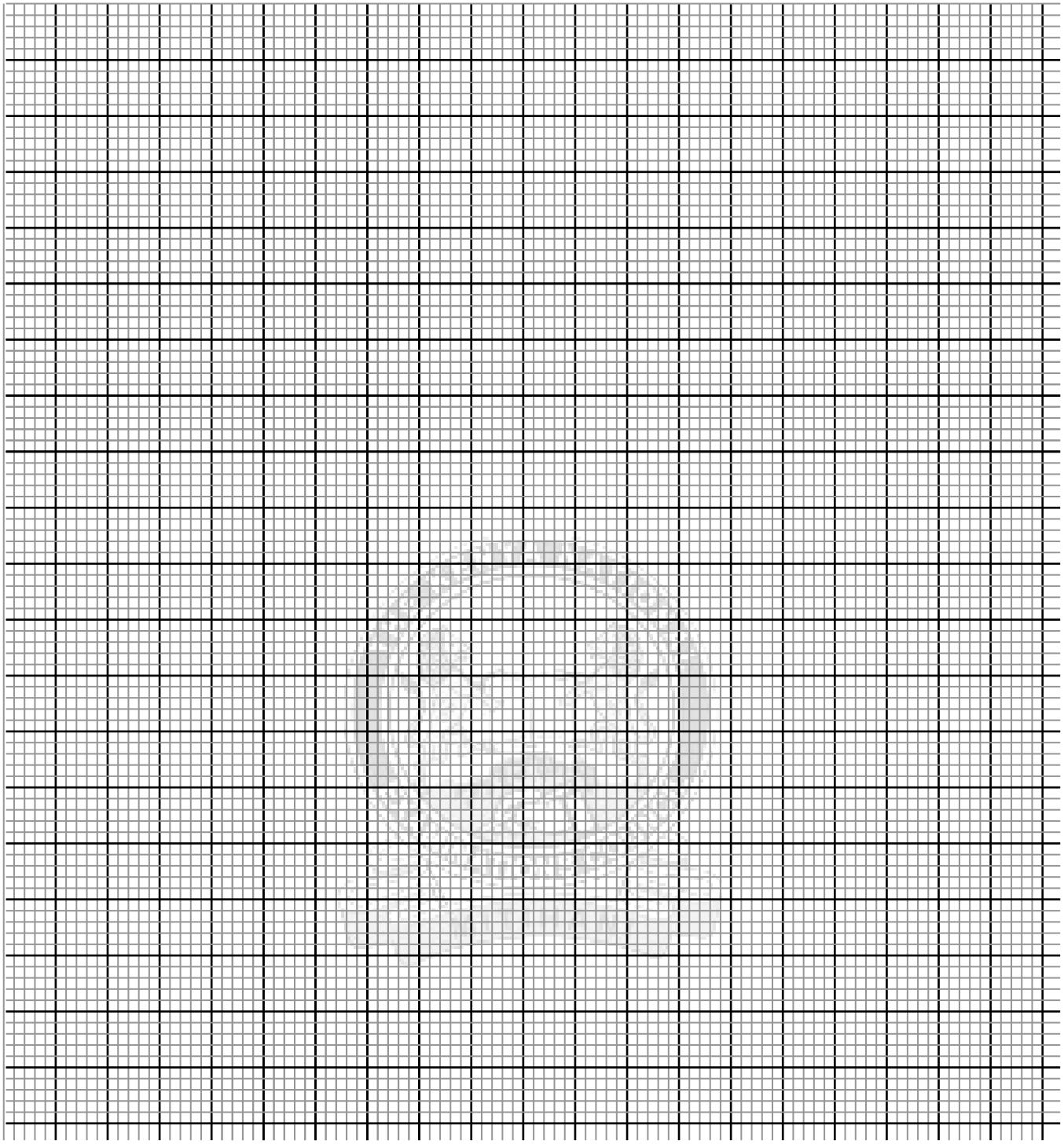
(b) State and explain observation made when a few pellets of potassium hydroxide are added to the equilibrium **mixture** **(2mks)**

(c) An experiment was done using magnesium ribbon and dilute hydrochloric acid of different concentrations. The time needed to produce $50cm^3$ of the gas for every experiment was recorded in the table below.

Concentration Of HCl in mol/Litre	2.0	1.75	1.50	1.25	1.00	0.75	0.50	0.25
Time in Sec (s)	8.8	10.0	11.7	13.5	17.5	22.7	35.5	70.0
$^1/_t$ Sec $^{-1}$								

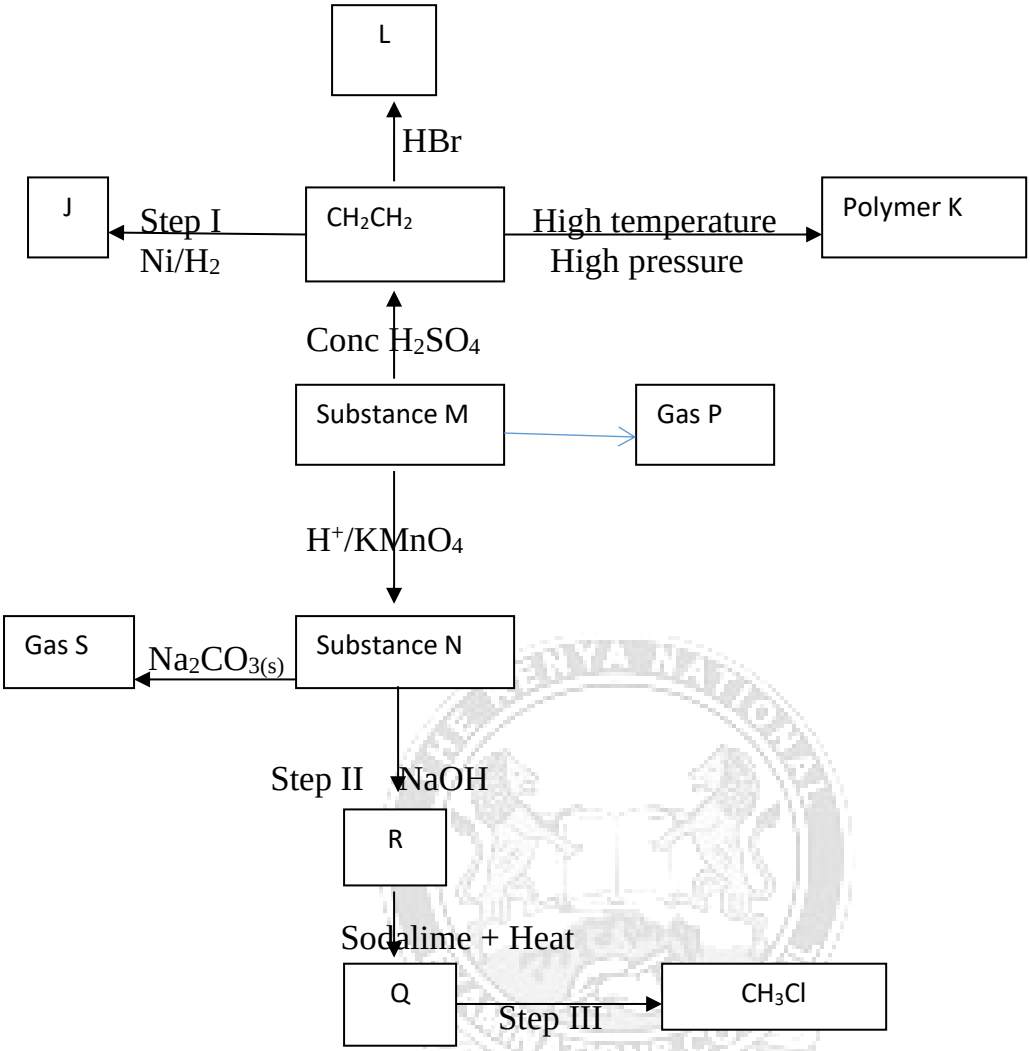
(i) Complete the table **above** **(1mk)**

(ii) Plot a graph of rate (^{1}/time) against concentration **(3mks)**



(iii) Determine from your graph the concentration needed to produce 50cm^3 of hydrogen gas, when time is 15 seconds **(1mk)**

4. Use the flow chart below to answer the questions that follow.



(a) Name the following: **(1 mk)**

(i) Gas P **……**

(ii) Gas J **……**

(b) Name the process involved in the following step. **(1mk)**

(i) Step II **……**

(ii) Step III **……**

(c) Draw the possible structure of compound L. **(1 mk)**

(d) Write equation for;

(i) The complete combustion of substance M **(1 mk)**

(ii) Formation of substance R. **(1 mk)**

(e) Name the condition and reagent in step III. **(1mk)**

Reagent

Condition

(f) Draw the structural formula of compound N. **(1 mark)**

(g) Chlorine is used to prepare vinylchloride($CH_2 = CHCl$).

(i) State why chloroethene, undergoes addition polymization**.** **(1mk)**

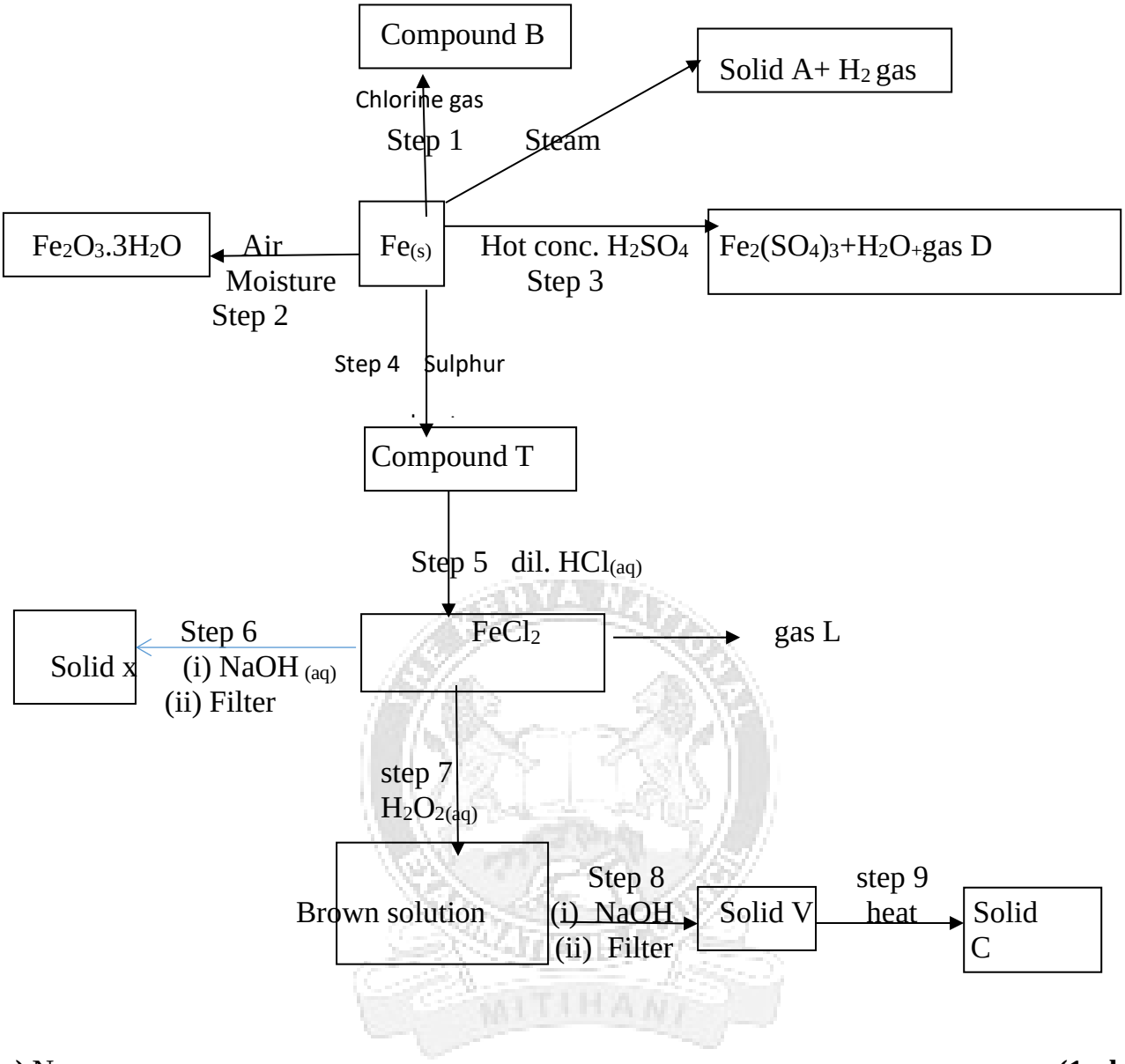
(ii) Name one use the polymer formed **(1mk)**

(h) Draw the structures of the following compounds. **(2mks)**

i) 3,4 dibromo-1- chloro-2-methylbut-2-ene

ii) hexan-1,6-dioic acid

5. Study the flow chart below starting from iron metal.



(a) Name gases **(1mk)**

D……

L……

(b) Identify the following substances. **(3mks)**

(i) CompoundB……

(ii) Compound T……

(iii) SolidA……

(iv) SolidV……

(v) SolidX……

(vi) Solid C ……..

(c) What name is given to the reaction in step 2? **(1mk**

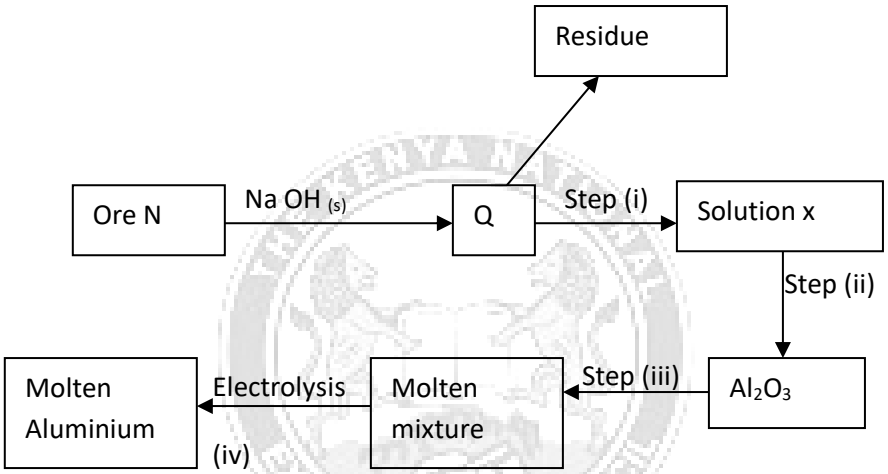
(d) Write balanced equations for the reactions that occurred in

(i) Step 1 **1mk**

(ii) Step 5 **1mk**

(e) What property of hydrogen peroxide (H_2O_2) is indicated in step 7 of the flow chart? **1mk**

6. Study the flow chart below and answer the questions that follow.



(a) Name two Ores of **N.** **(1mk)**

(b) Explain why the ore is first dissolved in excess sodium hydroxide solution **(1mk)**

(c) Give the formula of the aluminium compound present in solution **X** **(1mk)**

(d) Explain how to obtain aluminium hydroxide from solution **X** **(1mk)**

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(e) (i) Write an equation of the reaction that takes place in (d) above **(1mk)**

(ii) What is the role of cryolite (Na_3Alf_6) in the extraction of Aluminium **(1mk)**

(iii) Explain why Na^+ and F^- ions are not discharged during electrolysis in step (iv) **(1mk)**

7. (a)In an experiment 10.6g of a mixture of a anhydrous Sodium Carbonate and Sodium chloride were dissolved in water to make 100cm^3 of solution.25$cm^3$of this solution required 20cm^3 of 1M Hydrochloric acid solution for complete neutralization.

(i) Calculate the number of moles of Hydrochloric acid used **(1mk)**

(ii) Write an equation for the reaction that occurs. **(1mk)**

(iii) Calculate the mass of Sodium Carbonate in 25 cm^3n of this mixture. **(1mk)**

(iv) Determine the moles of Sodium Carbonate in 100cm^3 of the mixture. **(1mk)**

(v) What is the mass of sodium carbonate in the mixture? **(2 mks)**

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(vi) Calculate the percentage of Sodium Chloride in the mixture. **(2mks)**

(b). A gaseous compound P contains 55% Carbon, 9.1 % Hydrogen and the rest is Oxygen.

(i) Determine the empirical formula of P.(C=12, H=1, O=16) **(2mks)**

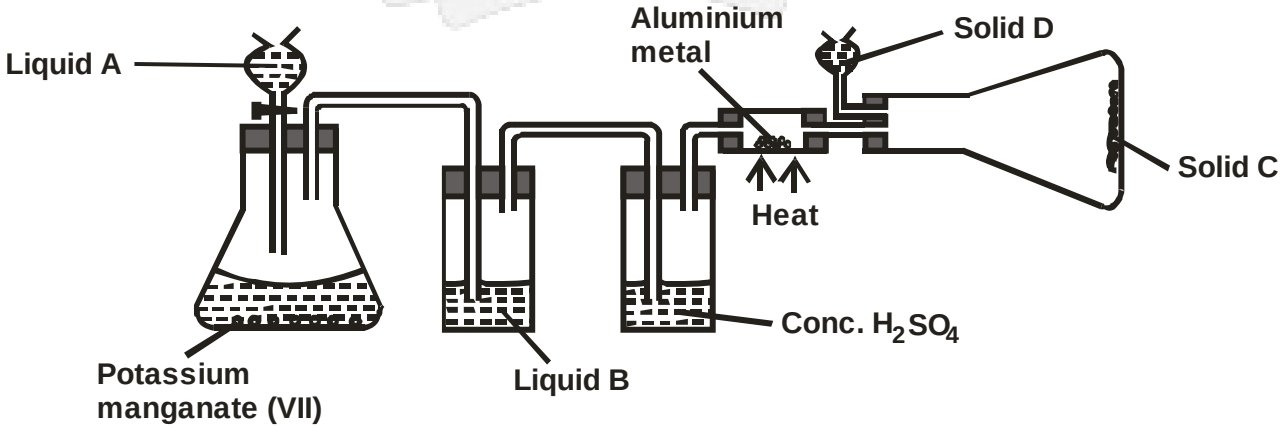
(ii) Given that 0.262g of P occupies a volume of 67cm^3 at s.t.p

I: Calculate the relative formula mass of P. (**1mk)**

II: Determine the molecular formula of P. **(1mk)**

(Molar gas volume at s.t.p.=22.4 dm^3)

8. a)The diagram below show the preparation and properties of chlorine gas .Study it and answer the questions that follows.



i) Name liquids A and B

A……. **(1mk)**

B…… **(1mk)**

ii) Suggest a suitable reagent that can be used as solid D. **(1mk)**

iii) State the role of solid D. **(1mk)**

iv) Write a balanced chemical equation for the reaction in the conical flask. **(1mk)**

v) Explain why solid C collects further away from the heated aluminium metals. **(1mk)**

vi) In the combustion tube above, 0.675g of aluminium metal reacted completely with 1800cm^3 of chlorine gas at room temperature. Determine the molecular formula of solid C, given that its relative formula mass is 267.(Al = 27.0,Cl = 35.5, molar gas volume at r.t.p.= 24.0 litres) **(3mks)**

b) The reaction between hot concentrated sodium hydroxide and chlorine gas produces sodium chlorate (V) as one of the products.

i) Write the equation of the reaction. **(1 mk)**

ii) Give one use of sodium chlorate (V). **(1mk)**

KCSE 2025 PREDICTION EXAM

POSSIBLE KCSE TEST 2

CHEMISTRY

233/3

PAPER 3

TIME: 2¼ HOURS

SCHOOL…… **SIGN……**

CONFIDENTIAL

INSTRUCTIONS TO ALL SCHOOLS

Requirements:

Apart from the common laboratory apparatus and chemicals, each candidate will require the following:-

- About 100cm^3 solution A
- About 100cm^3 solution B
- A 6cm long piece of magnesium ribbon
- A 30cm ruler
- One 250ml volumetric flask
- Means of heating
- 50ml measuring cylinder
- One 10ml measuring cylinder
- 2 dry conical flasks
- One 100ml beaker
- Stop watch
- About 500cm^3 distilled water supplied in a wash bottle
- One boiling tube
- 6 test tubes in a rack
- About 0.1g of sodium carbonate
- 0.5g Solid K
- Means of heating
- 1g Solid N
- One burette 0 -50ml
- One pipette 25ml
- One filter paper and filter funnel
- Six label

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ACCESS TO:

- Bunsen burner
- Methyl indicator
- 2M aqeous sodium hydroxide
- 2M aqeous potassium iodide
- 2M nitric acid
- Bromine water
- Universal indicator and pH chart
- Acidified potassium manganate (vii) solution

NOTES:

- Solution A is prepared by dissolving 110cm^3 of concentrated sulphuric (VI) acid in 500cm^3 of distilled water and making one litre of solution using distilled water and labelled solution A
- Solution B is made by dissolving 10.4g of potassium carbonate (K_2CO_3) in 500cm^3 of distilled water and making to one litre of solution using distilled water and labelled solution B
- Magnesium ribbon should be cleaned with sand paper before issuing to students. Each student requires 6cm long piece.
- Solid K (maleic acid)
- About 1.0g of solid N (mixture of $Pb(NO_3)_2$ and $PbCO_3$ in equal parts)

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KCSE 2025 PREDICTION EXAM

POSSIBLE KCSE TEST 2

CHEMISTRY

233/3

PAPER 3 (PRACTICAL)

TIME: 2¼ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

- Write your **name** and **admission number** in the spaces provided.
- **Sign** and write the **date** of examination in the spaces provided.
- Answer ***all*** the questions in the spaces provided in the question paper.
- You are not allowed to start working with the apparatus for the first 15 minutes 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 the chemicals and apparatus you need.
- All working **must** be clearly shown where necessary.
- Mathematical tables and electronic calculators may be used.

FOR EXAMINERS USE ONLY

Question	Maximum Score	Candidate's Score
1	17	
2	14	
3	9	
TOTAL	40	

1. You are provided with:

i) Aqueous Sulphuric (VI) acid labeled solution A.

ii) Solution B containing 10.4g per litre of potassium carbonate.

iii) A clean piece of magnesium ribbon.

iv) Methyl orange indicator.

▪

You are required to determine the:

i) Concentration of solution A

ii) **Rate of reaction between magnesium and Sulphuric (VI) acid – solution A, at different** concentration

Procedure A

i) Using a measuring cylinder, place 25.0cm^3 of solution A into a 250ml volumetric flask.

ii) Add distilled water to make 250cm^3 of solution. Label this solution C.

iii) Place solution C in a burette.

iv) Using a pipette and pipette filler place 25.0cm^3 of solution B into a conical flask.

v) Add 2 drops of methyl orange indicator provided and titrate with solution C.

vi) Record your results in table I below.

▪ Repeat the titration two more times and complete table I.

Table I.

	I	II	III
Final burette reading (cm^3)			
Initial burette reading (cm^3)			
Volume of solution C used (cm^3)			

(3 mrks)

a) Calculate:

i) Average volume of solution C used . **(1mk)**

ii) Concentration of potassium carbonate in solution **B (C = 12.0, O = 16.0, K = 39.0) (1 mk)**

iii) Concentration of Sulphuric (VI) acid in solution C. **(1½ mks)**

iv) Concentration of Sulphuric (VI) acid in solution A **(1½ mks)**

Procedure B

- Label five test tubes 1, 2, 3, 4 and 5.
- Empty the burette wash and rinse. Fill it with solution A.
- From the burette, place $10cm^3$ of solution A into test tube number 1. From the same burette, place $9cm^3$ of solution A into test tube number 2. Repeat the process for test tube numbers 3, 4 and 5 as shown in table II below.
- Using a 10ml measuring cylinder, measure $1cm^3$ of distilled water and add it to test tube number 2. Repeat the process for test-tube numbers 3, 4 and 5 as shown in table II below.
- Cut out five pieces exactly 1cm long of the magnesium ribbon.
- Transfer all the solution in test tube number 1 into a clean 100ml beaker provided. Put one piece of the magnesium ribbon provided. Put one piece of the magnesium ribbon into the beaker and immediately start a stopwatch.
- Swirl the beaker gently to ensure the magnesium is always inside the solution.
- Record in table II below the time taken in seconds for magnesium ribbon to disappear.
- Pour away the final contents of the beaker and rinse it with water.
- Repeat the procedure from (iv) for each of the remaining test tube numbers 2, 3, 4 and 5 and complete the table II

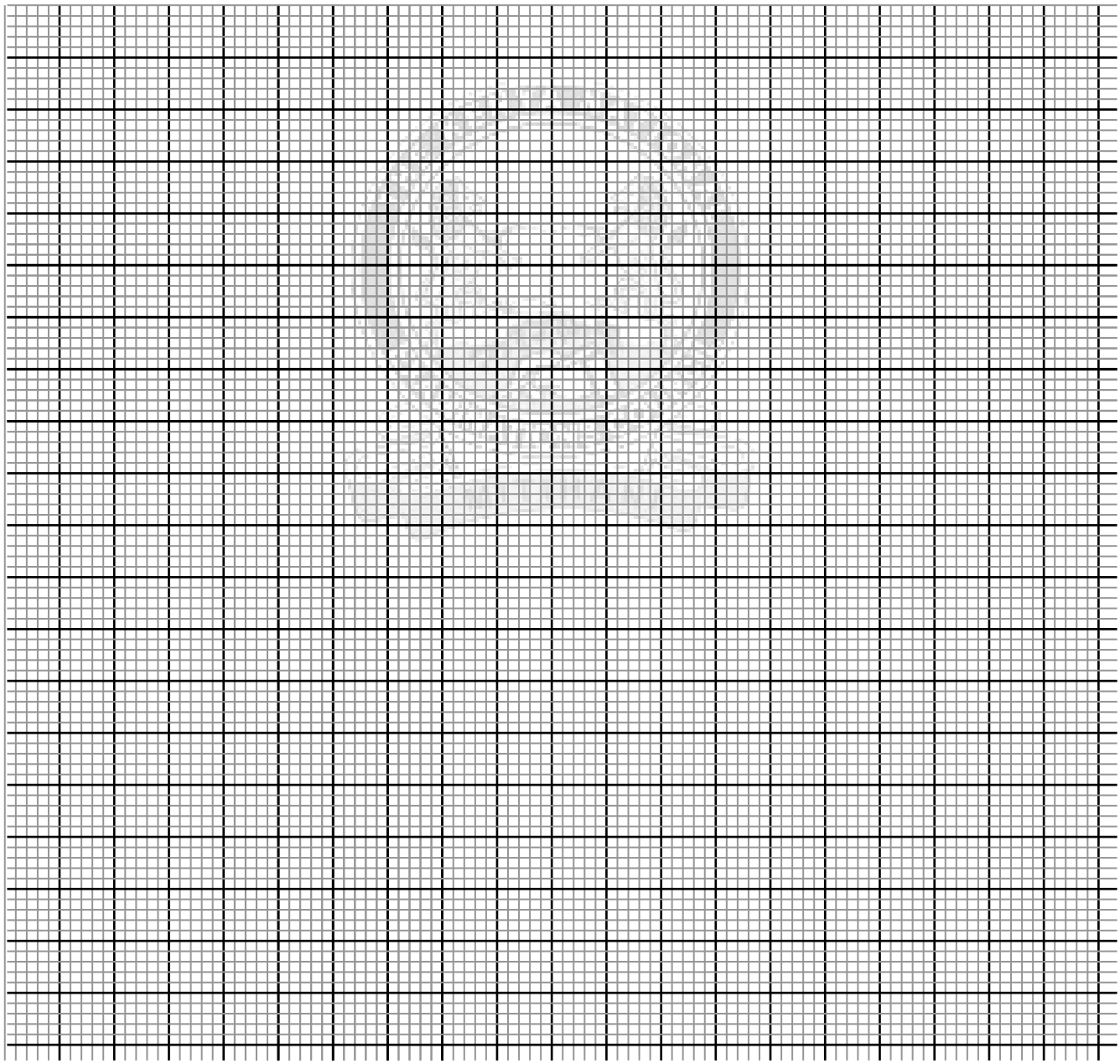
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b) **Table II**

Test tube number	1	2	3	4	5
Volume of solution A added cm^3	10	9	8	7	6
Volume of water added cm^3	0	1	2	3	4
Time taken (seconds)					
Rate of reaction $(\frac{1}{\text{time}})$					

(4 marks)

i) Plot a graph of volume of solution A added (y –axis) against rate of reaction $\frac{1}{time}$ **(3mks**



ii) What is the relationship between the concentration of solution A and the rate of reaction? Explain. **(2 marks)**

2. You are provided with mixture N. You are required to:-

i) Carry out tests on mixture N

ii) Record your observations and inferences accordingly.

Procedure

i) Place a spatulaful of mixture N in a test tube.

ii) Add 8cm^3 of distilled water and shake well

iii) Filter and retain the residue

a) Divide the filtrate into five portions.

Observations	**Inferences**
1mk	**1mk**

b) Add sodium hydroxide to the first portion drop wise while observing till in excess.

Observations	**Inferences**
1mk	**1mk**

c) Add ammonia solution to the second portion of the filtrate drop wise, until in excess.

Observations	**Inferences**
1mk	**1mk**

d) Add 1cm^3 dilute hydrochloric acid to the third portion.

Observations	**Inferences**
1mk	**1mk**

e) Add a few drops of potassium iodide solution to the fourth portion.

Observations	**Inferences**
1mk	**1mk**

f) Add a few drops of lead (ii) nitrate solution to the fifth portion.

Observations	**Inferences**
1mk	**1mk**

For Marking Schemes Contact 0746-222-000 / 0742-999-000

g) Remove the residue from the filter paper and place it in a test tube, add $5cm^3$ of dilute nitric (V) acid.

Observations	**Inferences**
1mk	**1mk**

3. You are provided with solid K. Carry out the tests below. Write your observations and inferences in the spaces provided.

a) Place about a third of solid K on a metallic spatula and ignite using a non – luminous flame.

Observation	**Inference**
(1 mark)	**(½ mark)**

b) Place the remaining of solid K into a test tube. Add $10cm^3$ of distilled water and shake the mixture well. (Retain the mixture for use in c).

Observation	**Inference**
(1 mark)	**(½ mark)**

c) i) To about $2cm^3$ of the mixture, add 3 drops of universal indicator.

Observation	**Inference**
(½ mark)	**(½ mark)**

ii) To about $2cm^3$ of the mixture, add a small amount of sodium carbonate.

Observation	**Inference**
(½ mark)	**(½ mark)**

iii) To about $2cm^3$ of the mixture, add 2 drops of acidified potassium manganate (VII).

Observation	**Inference**
(1 mark)	**(1 mark)**

iv) To about $2cm^3$ of mixture, add 2 drops of bromine water.

Observation	**Inference**
(1mark)	**(1 mark)**

For Marking Schemes Contact 0746-222-000 / 0742-999-000

KCSE 2025 PREDICTION EXAM

POSSIBLE KCSE TEST 2

BIOLOGY

231/1

PAPER 1

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *Write your* ***name, Index number and name of your school*** *in the spaces provided above*

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

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

FOR EXAMINERS USE ONLY

QUESTIONS	MAXIMUM SCORES	CANDIDATE'S SCORE
1 – 26	80	

Answer ALL the questions

1. State the functions of the following cell structures during cell division: **(2 mks)**

(i) Centriole -

……

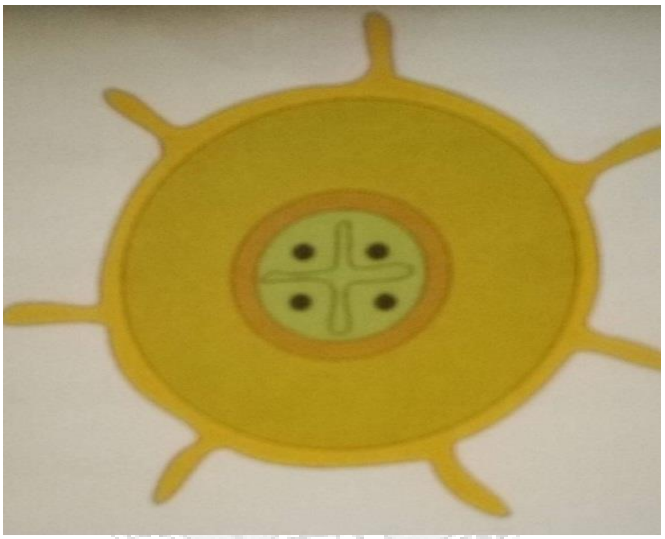
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(ii) Centromere –

……

……

2. The diagram below represents a transverse section through a plant organ.



(a) From which plant organ was the section obtained ? **(1 mk)**

……

(b) State two structural differences between ribonucleic acid (RNA) and deoxyribonucleic acid **(DNA).** **(2 mks)**

RNA	DNA
(i)	**(i)**
(ii)	**(ii)**

4. Explain what would happen when a marine amoeba is transferred to a fresh water environment. **(2 mks)**

……

……

……

5. A small amount of chemical A was put on one side of maize coleoptiles. After some days, it was noted that the coleoptiles curved away from the side to which the chemical was applied.

(a) Suggest the possible identity of chemical substance A. **(1 mk)**

……

(b) Explain how this chemical might have caused the coleoptiles to curve. **(2 mks)**

……

……

……

6. State name given to the study of:-

(a) Blood –

……

(b) Classification of living things –

……

7. (a) Name the products of complete hydrolysis of sucrose. **(1 mk)**

……

(b) What happens to the products named in (a) above, when they are excess to the body. **(2 mks)**

……

……

……

For Marking Schemes Contact 0746-222-000 / 0742-999-000

8. (a) Give the formula for calculating linear magnification of a specimen when using a hand lens. **(1 mk)**

……

……

(b) Give one functional advantage of each of the following parts of a microscope. **(2 mks)**

(i) Light microscope –

……

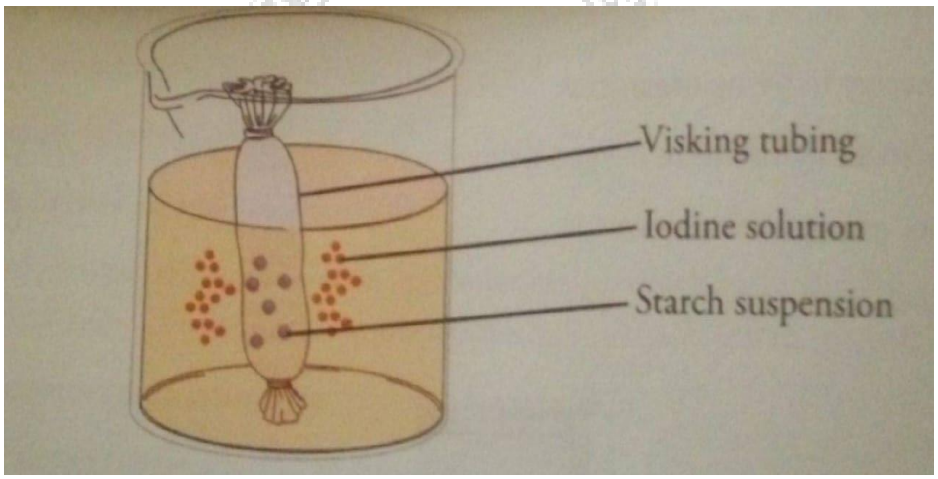
……

(ii) Electron microscope –

……

……

9. An investigation was set up as shown in the diagram below



After 30 minutes, starch suspension had turned to blue-black while iodine solutions retained its colour

(a) Name the physiological process that was being investigated in the experiment.

……

(b) Account for the results observed after 30 minutes. **(2 mks)**

……

……

……

10. (a) Name the respiratory surface in insects. **(1 mk)**

……

(b) State any one feature that adapts the structure named in (10 a) above to its function.

(1 mk)

……

……

11. Name the hormone involved in the following stages of insect metamorphosis**.** **(2 mks)**

(a) (i) Formation of the larval cuticle –

(ii) Moulting in insects leading to the laying of adult cuticle

(b) Outline the stages of metamorphosis in:- **(2 mks)**

(i) A cockroach –

(ii) A butterfly -

12. The diagram below shows a bone that was obtained from a mammal.



(a) Identify the bone. **(1 mk)**

(b) (i) Name the type of joint formed at the part marked P. **(1 mk)**

(ii) State one characteristic of the joint named in (b) above. **(1 mk)**

(c) What is the function of the part labeled Q. **(1 mk)**

13. When setting up a photometer; explain why the leafy shoot is cut under water. **(1 mk)**

……

……

14. (a) In view of modern gastric; explain why Lamarck's theory of evolution is inacceptable.

(2 mks)

(b) A cow produced a calf with five legs. What is the genetic term used for such a calf.

(**1 mk)**

15. Name the hormone produced to the human body when:- **(3 mks)**

(i) Blood glucose level is low –

(ii) Amount of sodium ions in blood is below normal

(iii) One is facing imminent danger.

16. A process that occurs in some organisms is represented by the equation below,.

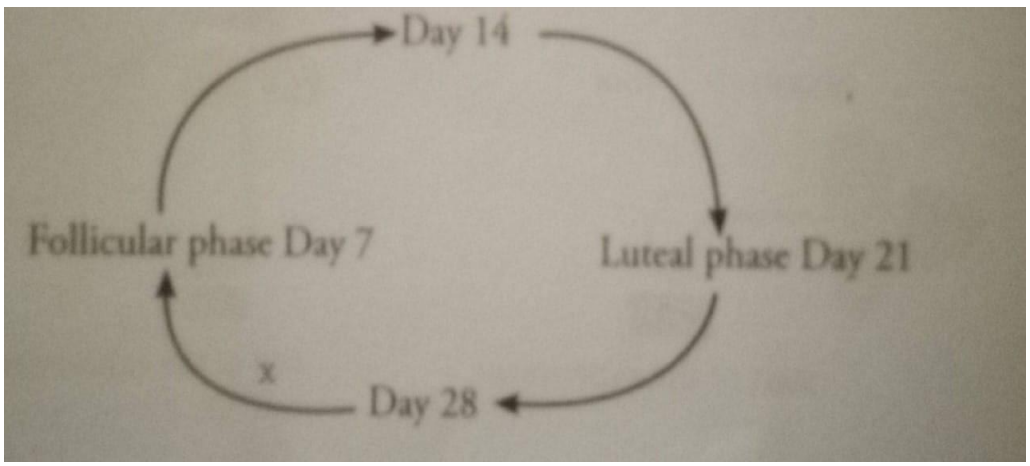
$C_6H_{12}O_6 \longrightarrow 2C_2H_5OH + 2CO_2 + Energy$

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

(b) State the names of compound K. **(1 mk)**

(c) State the economic importance of the above reaction in Kenyan industries. **(1 mk)**

17. The diagram below represents a summary of the main phases of human menstrual cycle.



(a) Name process labeled X. **(1 mk)**

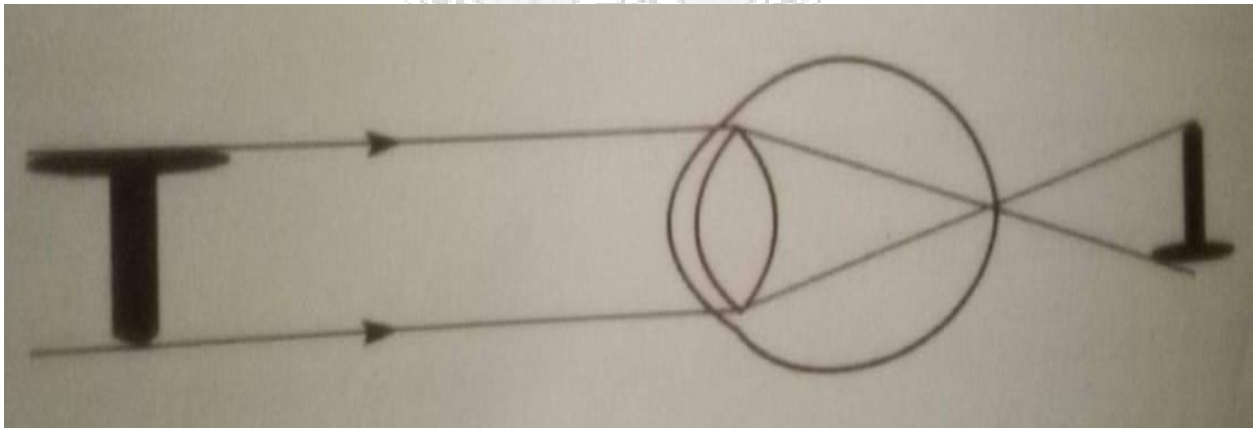
(b) Name the hormone responsible for the process that takes place in day 14. **(1 mk)**

(c) State two secondary sexual characteristics in female. **(2 mks)**

18. A form one student observed a cell under a light microscope which had a field of view of 4.2mm. This length was occupied by 7 cells. Work out the appropriate length of such cell in micrometers. **(2 mks)**

(b) Explain why microscope sections are required to very thin. **(1 mk)`**

19. The diagram below shows the position of an image formed in the human eye.



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

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

……

……

……

20. Distinguish between guttation and transpiration. **(2 mks)**

……

……

……

……

21. (a) Two species in an ecosystem cannot occupy the same niche. Explain. **(2 mks)**

……

……

……

(**b)** Define the term discontinuous variation. **(1 mk)**

……

……

……

(c) State two examples of discontinuous variation. **(2 mks)**

……

……

22. (a) State two uses of ATP energy in living organisms. **(2 mks)**

……

……

……

(b) What do you understand by the term Oxygen Debt? **(1 mk)**

……

……

(c) State the significance of respiratory quotient. **(2 mks)**

……

……

……

23. State three differences between endocrine system and nervous system. **(3 mks)**

Endocrine System	Nervous System
(i)	(i)
(ii)	(ii)
(iii)	(iii)

24. (a) Distinguish between a hinge joint and a ball and socket joint. **(1 mk)**

……

……

……

(b) Name the cartilage found between the bones of the vertebral column. **(1 mk)**

(c) State the function of the cartilage named in (b) above. **(1 mk)**

25. In an experiment, it was observed that when termites are exposed to light, they move to darker ends.

(a) Name the type of response exhibited by termites. **(1 mk)**

……

(b) What are the survival values of the type of response exhibited by the termites. **(2 mks)**

……

……

……

26. (a) State where the following processes occur during photosynthesis:-

(i) Light stage **(1 mk)**

(ii) Dark stage **(1 mk)**

(b) State two importance of light during photosynthesis. **(2 mks)**

For Marking Schemes Contact 0746-222-000 / 0742-999-000

KCSE 2025 PREDICTION EXAM

POSSIBLE KCSE TEST 2

BIOLOGY

231/2

PAPER 2 (THEORY)

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *Write your* ***name*** *and* ***index number*** *in the spaces provided above*
b) *Sign and write the date of examination in the spaces provided*
c) *Answer all questions in section A*
d) *In section* ***B*** *answer* ***question 6 (compulsory)*** *and either question 7 or 8*

FOR EXAMINERS USE ONLY

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
SECTION A		
1.	**8**	
2.	**8**	
3.	**8**	
4.	**8**	
5.	**8**	
SECTION B		
6.	**20**	
7.	**20**	
8.	**20**	
TOTAL	**80**	

For Marking Schemes Contact 0746-222-000 / 0742-999-000

SECTION A:

Answer all the questions in the spaces provided.

1. A biological washing powder contains an enzyme. The enzyme removes stain such as blood from clothes by digestion when the clothes are soaked in water with no powder.

(a) What is an enzyme? **(2mks)**

……

……

(b) Identify two possible enzymes that are found in the washing powder above. **(2mks)**

……

……

(c) Would the stains be removed faster with the powder in water at $30^{o}C$ or $15^{0}C$.**(1mk)**

……

……

(d) Explain your answer in (c) above **(2mks)**

……

……

(e) Why would boiling the clothes socked with the washing powder do not remove the stains? **(2mks)**

……

……

……

2. A couple had three children, the mother had blood group A and the father had blood group B. While one of the children had blood group O

a)(i) What were the genotypes of the parents. **(1mks)**

(ii) What was the genotype of the child with blood group O **(1mk)**

b) Work out using genetic crosses the genotypes of the other children. **(4mks)**

c) Which child can receive blood from any member of the family? **(1mk)**

d) State the percentage of children who can donate blood to al blood groups. **(1mk)**

3. Distinguish between pyramid of numbers and pyramid of biomass. **(2mks)**

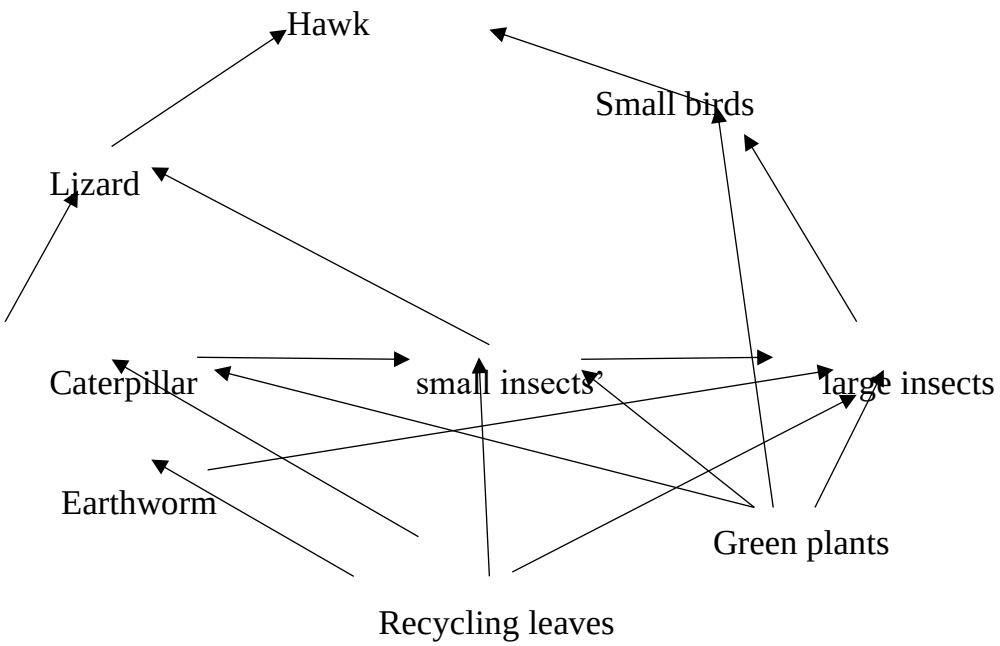
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b) From an ecological study, students formed the following food web.



From the food web, construct two food chains with lizard as a tertiary consume. **(2mks)**

……

……

……

c)(i) Which organism has the least biomass in the ecosystem. **(1mks)**

……

(ii) Give reasons for your answer **(3mks)**

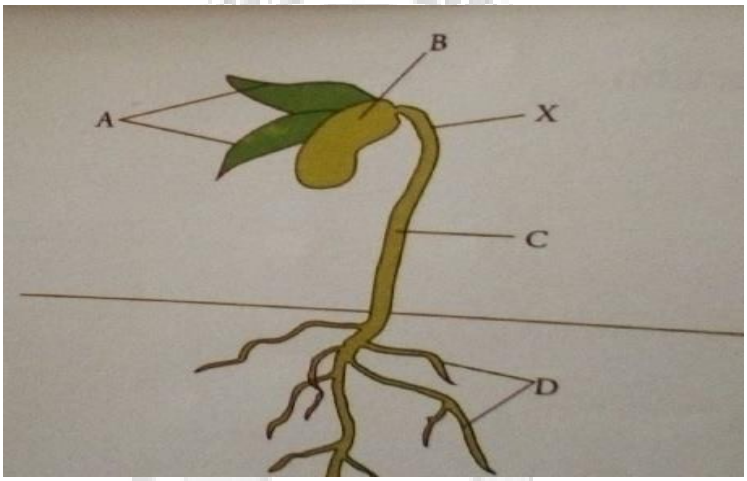
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4. Examine the diagram below and answer the questions that follow.



(a) Name the parts labelled A- D. **(2mks)**

……

……

……

……

(b) State the type of germination exhibited by the seedling above **(1mk)**

……

(c) State two roles of water during germination. **(2mks)**

……

……

(d) Explain how the part labelled x would strengthen. **(3mks)**

……

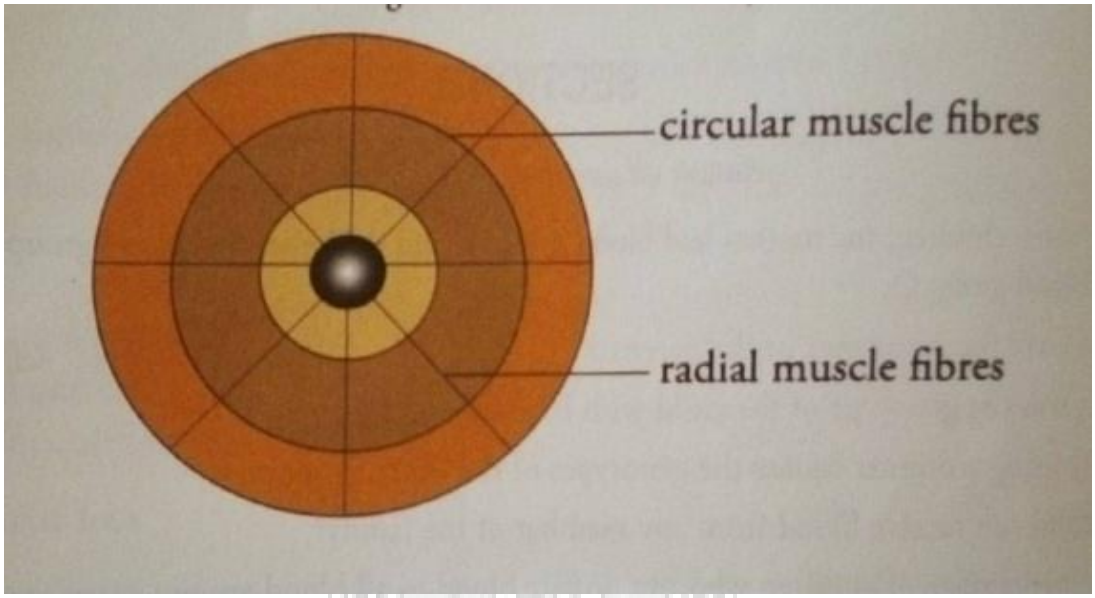
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5. The diagram below shows the internal arrangement of muscles in the eye.



(a) How is the pupil affected by contraction of ;

(i) Circular muscles **(1mk)**

……

……

(ii) Radial muscles **(1mk)**

……

……

(b) Where are light sensitive cells located in the eye. **(1mk)**

……

……

……

(c) What is short sightedness? **(1mk)**

……

……

……

(d) Explain why cones have a higher visual acuity as compared to rods. **(2mks)**

……

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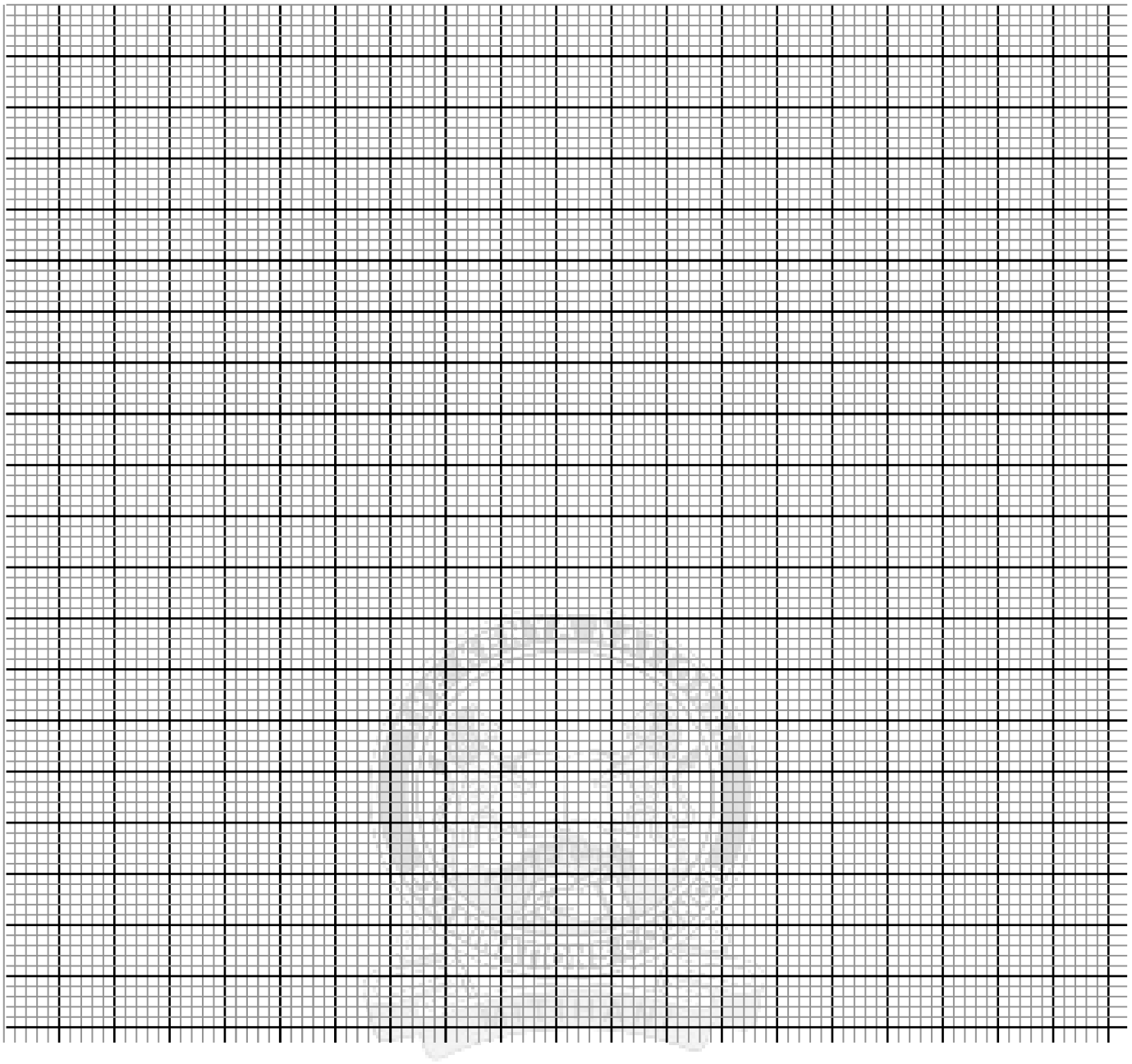
SECTION B:

Answer question 6 and either question 7 or 8.

6. An experiment was carried out to investigate the effect of temperature on the rate of reaction catalyzed by an enzyme. The results are as shown below.

Temperature (º)	**Rate of reaction in mg of product per unit time**
5	0.2
10	0.6
15	0.9
20	1.2
25	1.6
30	2.2
35	3.1
40	3.8
45	3.5
50	2.9
55	2.2
60	1.2

a) Draw a graph of rate of reaction against temperature. **(6mks)**



b) Determine when the rate of reaction is 2.5mg of product per unit time. **(2mks)**

c) Account for the shape of the graph between:

(i) 5^oC- 40^oC **(2mks)**

……

……

……

……

(ii) $45^oC - 60^oC$ **(2mks)**

……

……

……

d) Other than temperature give two other ways of increasing the rate of reaction between 5^oC and 40^oC. **(2mks)**

……

……

e) (i) Identify a digestive enzyme in human that requires acidic conditions for its working. **(1mk)**

……

(ii) Explain how the acidic conditions above is achieved **(1mk)**

……

……

f) Enzyme in region of alimentary canal below the stomach requires alkaline conditions.

i) Name substances responsible for neutralization. **(1mk)**

……

ii) Name the part of the alimentary canal where neutralization take place. **(1mk)**

……

g) (i) What are enzyme cofactors? **(1mk)**

……

……

(iii) Identify one metallic element used as enzyme cofactor. **(1mk)**

……

7. (a) How is the human ear adapted to perform its functions? **(20mks)**

8. (a) Describe how the following supports the theory of evolution. **(4mks)**

(i) Geographical distribution of organisms

(ii) Comparative anatomy

(b) Describe how hormones regulate the menstrual cycle in human beings. **(16mks)**

KCSE 2025 PREDICTION EXAM

POSSIBLE KCSE TEST 2

BIOLOGY

231/3

PAPER 3

TIME: 1¾ HOURS

SCHOOL…… **SIGN……**

Kenya Certificate of Secondary Education.

CONFIDENTIAL

BIOLOGY PAPER 3

REQUIREMENTS:

1. Onion bulb with aerial leaf and shoots label Q
2. Iodine solution
3. Benedict solution
4. Test tubes each student
5. Source of heat
6. Mortar and pestle

For Marking Schemes Contact 0746-222-000 / 0742-999-000

KCSE 2025 PREDICTION EXAM

POSSIBLE KCSE TEST 2

BIOLOGY

231/3

PAPER 3

TIME: 1¾ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

- *Write your name and index number in the spaces provided at the top of this page.*
- *Answer all the questions in the spaces provided.*

FOR EXAMINER'S USE ONLY

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1.		
2.		
3.		
TOTAL	40	

For Marking Schemes Contact 0746-222-000 / 0742-999-000

Answer all the questions in the spaces provided.

1. You are provided with a specimen labeled Q.

(a) Examine the outer and inner leaves of the bulb

(i) Record the differences between them. **(1 mk)**

(ii) Give reasons for the differences in a(i) above. **(1 mk)**

(b) Separate the roots and aerial leaves from the bulb. Crush the roots, aerial leaves and the bulb separately. To each crushed material, add 1ml of water. Put the extract from the material into separate test tubes and label them. Using the reagents provided, test for the food substances in each of the extracts. Record the procedure, observations and conclusions in the table below. **(9 mks)**

Extract	Procedure	Observations	Conclusions
Roots			
Bulb			
Aerial leaves			

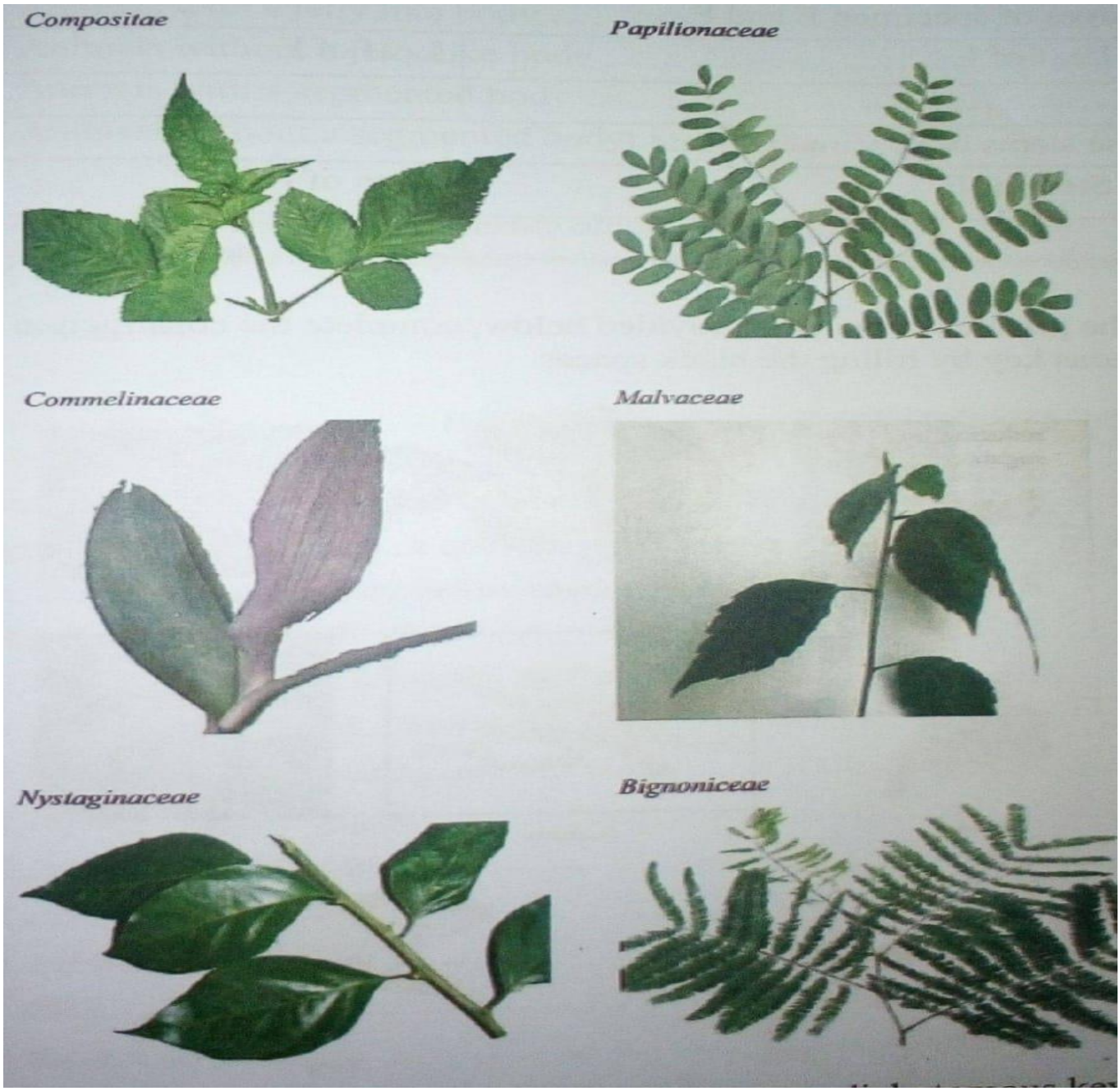
(c) Account for the results obtained in (b) above.

(i) Roots **(2 mks)**

(ii) Bulb **(2 mks)**

(iii) Aerial leaves **(2 mks)**

2. Below are photographs of some observable features of leaves.

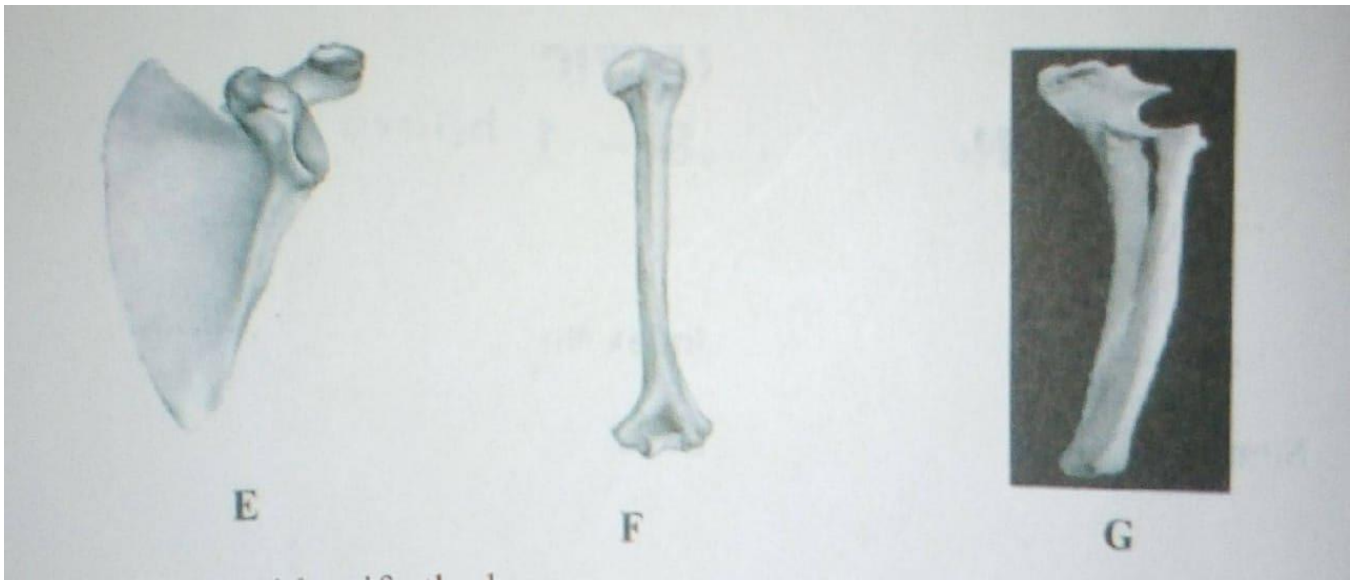


Using the features in the order given below, construct a dichotomous key that can be used to identify the specimens.

- Simple or compound leaves
- Leaf variation
- Leaf margin
- Arrangement of leaves on the stem.

For Marking Schemes Contact 0746-222-000 / 0742-999-000

3. The photographs below represent three mammalian bones labeled E, F and G.



(a) With reasons, identify the bones. **(6 MKS)**

Bone	Identity	Reason(s)
E		
F		
G		

(b) Name the joints formed at the anterior and posterior ends of F.

(i) Anterior end **(1 mk)**

(ii) Posterior end **(1 mk)**

For Marking Schemes Contact 0746-222-000 / 0742-999-000

(c) State the type of movement facilitated by the joint at the anterior end of specimen labeled F. **(1 mk)**

(d) (i) Name the substance found inside the living tissue of the specimen represented in photograph F. **(1 mk)**

(ii) State the function of the substance named in d(i) above. **(1 mk)**

(e) (i) Name the muscle bundle usually attached onto the front of the specimen represented in photograph F. **(1 mk)**

(ii) State the function of the muscle bundle named in (e) (i) above. **(1 mks)**

For Marking Schemes Contact 0746-222-000 / 0742-999-000

KCSE 2025 PREDICTION EXAM

POSSIBLE KCSE TEST 2

MATHEMATICS

121/1

PAPER 1

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

INSTRUCTIONS TO DANDIDATES

1. *Write your name, index number and class.*
2. *The paper contains two sections: Section I and II*
3. *Answer ALL questions in section I and ONLY FIVE questions from section II.*
4. *All working and answers must be written on the question paper in the spaces provided below each question.*
5. *Marks may be awarded for correct working even if the answer is wrong.*

FOR EXAMINER'S USE ONLY

SECTION 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	TOTAL

GRAND TOTAL

SECTION II

17	18	19	20	21	22	23	24	25	TOTAL

For Marking Schemes Contact 0746-222-000 / 0742-999-000

SECTION 1 (50 MARKS)

Answer all the questions in the spaces provided.

1. Simplify the expression **(3mks)**

$$\frac{12x^2 - 27}{4 - (2x + 1)}$$

2. Solve the equation $\frac{x-1}{x} - \frac{2x-1}{3x} = \frac{1}{4}$. **(3mks)**

3. A flag post 10m long is mounted on top of a pillar. The angle of depression from the top of the flag post to a point A on the horizontal ground is 60^0 while the angle of depression to the same point A from the bottom of the flag post is 40^0. Calculate the height of the pillar. **(3mks)**

4. The exchange rates of currencies in a certain bank in Kenya on a certain day were as follows;

Currency	Buying (Ksh)	Selling (Ksh)
1 US dollar	104.37	105.42
1 Euro	121.51	122.62

John exchanged 27,520 US dollars into Ksh in this bank.

a) How much Ksh did he receive? **(2mks)**

b) After spending Ksh. 973,289 he converted the remainder to Euros. How many Euros did he finally have? (Give your answer to the nearest Euro). **(2mks)**

5. An irregular polygon has two of its interior angles as 135^0 and 105^0. The remaining interior angles are all equal to 150^0. Calculate the sum of its interior angles. **(3mks)**

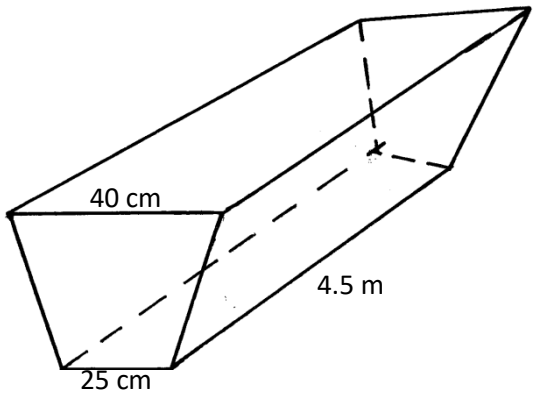
6. A fruit juice dealer sell the juice in packet of 300ml, 500ml and 750ml. find the size of the smallest container that can fill each of the packets and leave a remainder of 200ml. **(3mks)**

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7. In a fundraising committee of 45 people, the ratio of men to women is 7:2. Find the number of women required to join the existing committee so that the ratio of men to women is changed to 5: 4. **(3mks)**

8. Jemima's team entered a contest where teams of students compete by answering questions that earn either 3 points of 5 points. Jemima's team scored 44 points after answering 12 questions correctly. How many five-point questions did the team answer correctly? **(3mks)**

9. The figure below shows a trough which is 40 cm wide at the top and 25 cm wide at the bottom. The trough is 20cm deep and 4.5 m long. Calculate the capacity of the trough in litres. **(3mks)**



10. Using compass and ruler only construct a triangle ABC such that AB= 6cm, BC = 5cm and angle ABC = 67.5^{o} measure the length of AC. **(3mks)**

11. The two sides of a triangle are given 6 cm and 5 cm. the angle between them is 130^{o}. Calculate the area of the triangle (giving your answer to 2 decimal places) **(3mks)**

For Marking Schemes Contact 0746-222-000 / 0742-999-000

12. The length of a rectangular mat is 1.5 m longer than its width; Find the length of the mat if its area is $6.5m^2$(give your answer to 4 significant figures) **(3mks)**

13. State the amplitude, period and the phase angle of the curve $Y= 2 \sin (1.5X - 30^0)$ **(3mks)**

14. (a) Using line AB given below, construct the locus of point P such that angle APB $=90^o$. **(2mks)**

A B

(b) On the same diagram locate two possible positions of point C such that point C is on the locus of P and is equidistant from A and B. **(2mks)**

15. Given that **OA**= 2i + 3j and **OB**=3i- 2j. Find the magnitude of AB to one decimal place. **(3mks)**

16. Determine the quartile deviation for the following distribution. **(3mks)**

3,4,9,5,4,7,6,2,1,6,7,8,9

THE KENYA NATIONAL EXAMINATIONS COUNCIL MITIHANI

SECTION II (50 MARKS)

Answer ONLY FIVE questions in this section.

17. A point A is (-1, 8) and B is (8, 2).

a)

i. Find $\overrightarrow{AB}$. **(2mks)**

ii. Find $\left|\overrightarrow{AB}\right|$ **(2mks)**

b) Given that a point P divides $\overrightarrow{AB}$ in the ratio 1:2, find the position vector of point P. **(2mks)**

c) Another point R has co-ordinates (11, 0). Show that points A, B and R are collinear. **(4mks)**

MITIHANI

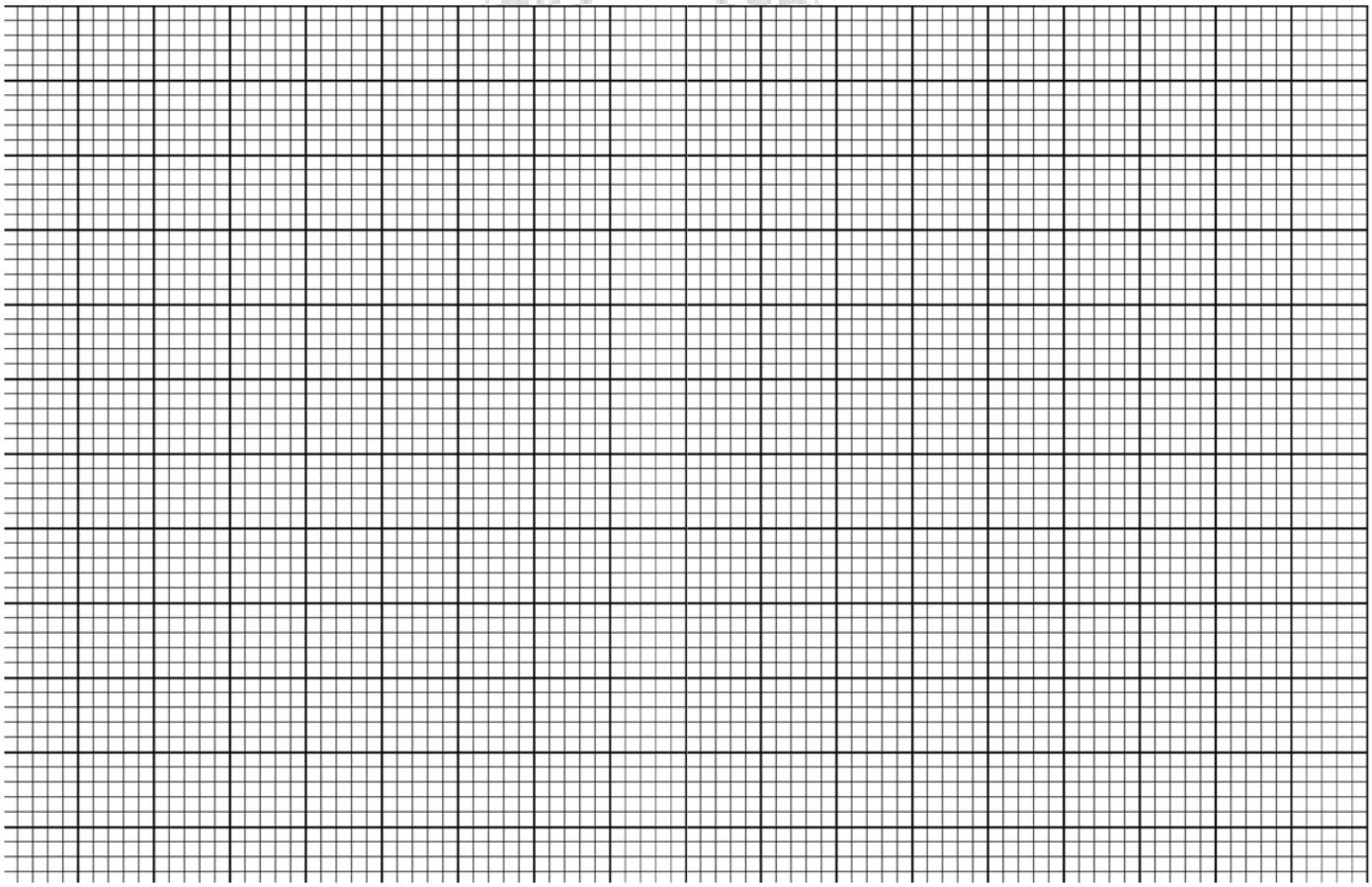
18. The table below shows marks obtained by 40 students in an examination.

Marks	5 - 14	15 - 29	30 - 34	35 - 44	45 – 49
Frequency	2	12	7	15	X

a) Find the value of x. **(1mk)**

b) Calculate the mean mark. **(3mks)**

c) On the grid provided, draw a histogram to represent the data above. **(4mks)**



d) Draw a straight line on the graph above to determine the median mark. **(2mks)**

19. A wooden stool is in the form of a frustum of a cone with slant edge 40cm, the top diameter is 30cm and the bottom diameter is 50cm.

a) Calculate the perpendicular height of the stool to2 d.p. **(3mks)**

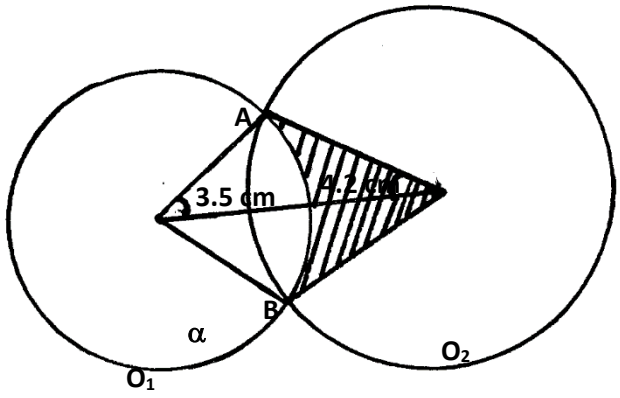
b) Calculate the total surface area of the stool in terms of π. **(2mks)**

c) Calculate the volume of wood used to make the stool in terms of π to 2 d.p. **(3mks)**

d) Given that the density of the wood used to make the stool is $0.8g/cm^3$, calculate the mass of the stool to 2 d.p. using π as $^{22}/_{7}$. **(2mks)**

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20. Two circles of radii 3.5 and 4.2 cm with centres O_1 and O_2 respectively intersect at points A and B as shown in the figure below. The distance between the two centres is 6 cm.



Calculate

(a) The size of $\angle AO_1B$ (to the nearest degree) **(3mks)**

(b) The size of $\angle$ A O_2 B (to the nearest degree) **(3mks)**

(c) The area of quadrilateral O_1AO_2B, correct to 2 decimal places. **(2mks)**

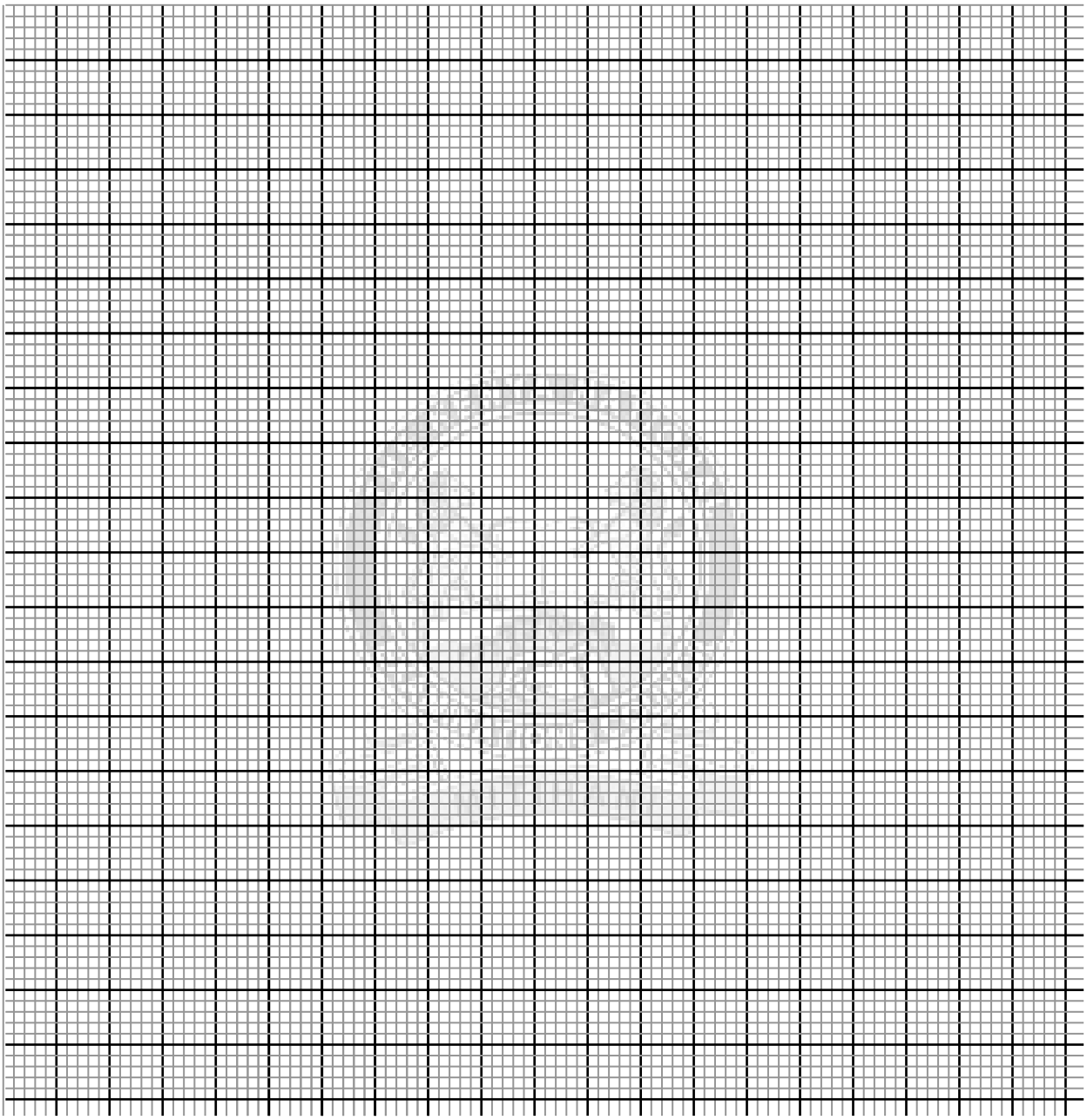
(d) The shaded area correct to 2 significant figures. (take $\pi\ ^{22}/_{7}$) **(2mks)**

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21 (a) Complete the table below for the function $y = 2x^2 + 4X - 3$ **(2mks)**

X	-4	-3	-2	-1	0	1	2
$2x^2$	32		8	2	0	2	
4x-3			-11		-3		
Y			-3			3	13

(b) Draw the graph of the function $y = 2x^2 + 4x - 3$ on the grid provided. **(3mks)**



(c) Use your graph to estimate the roots of the equation $2x^2 + 4x - 3 = 0$ **(1mk)**

(d) Use your graph to obtain the roots of the equation $2x^2 + x - 5 = 0$ to 1 decimal place. **(3mks)**

(e) Draw the line of symmetry to pass through the turning point of this curve. **(1mk)**

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22. A line **L** passes through (-2, 3) and (-1, 6) and is perpendicular to a line **P** at (-1, 6).

a) Find the equation of **L** **(2mks)**

b) Find the equation of **P** in the form ax + by = c,where a, b and c are constants. **(2mks)**

c) Given that another line **Q** is parallel to **L** and passes through point (1, 2) find the x and y intercepts of **Q** **(3mks)**

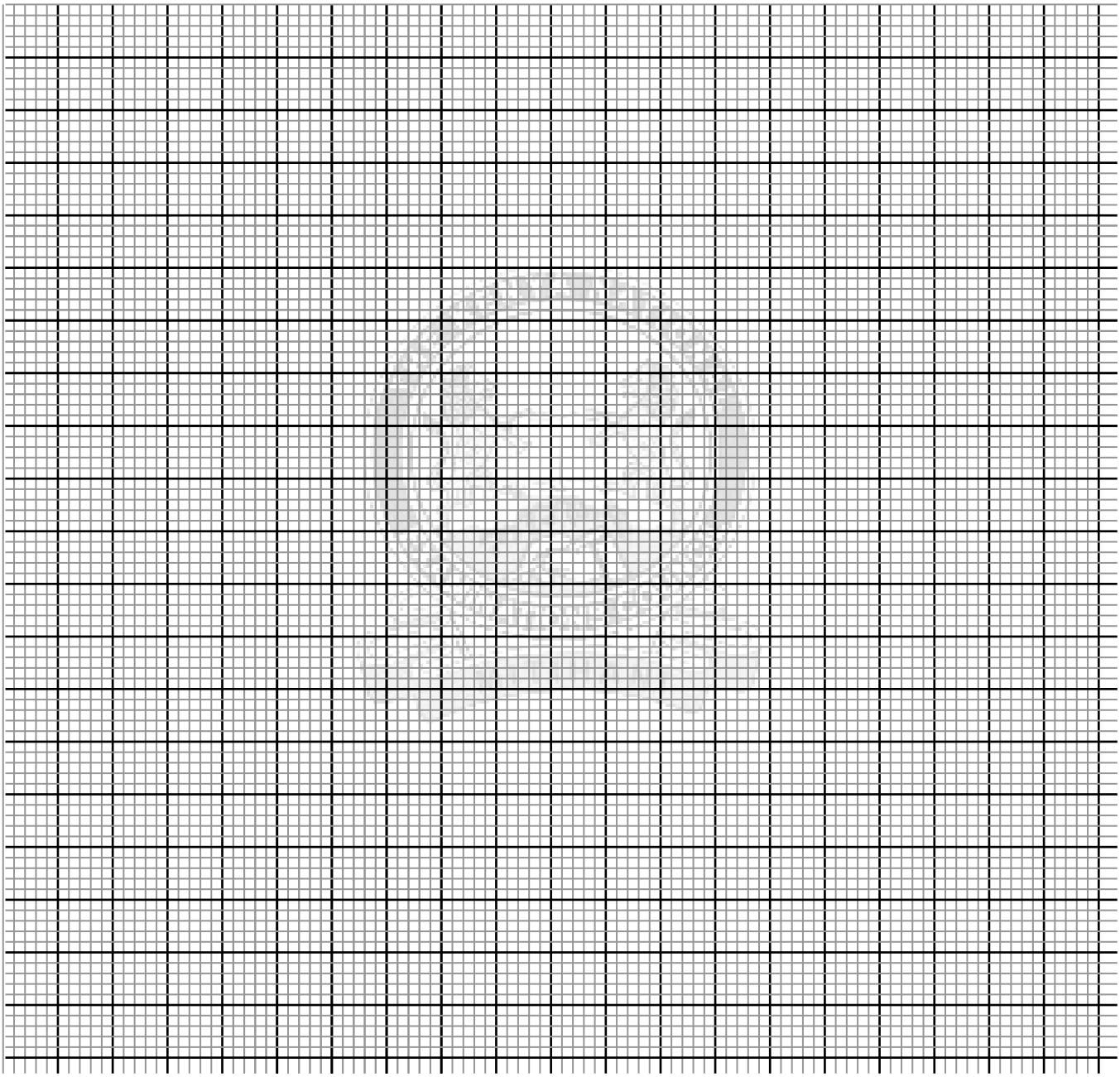
d) Find the point of the intersection of lines **P** and **Q** **(3mks)**

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23. The vertices of quadrilateral OPQR are O (0, 0), P (2, 0), Q (4, 2) and R (0, 3). The vertices of its image under a rotation are O' (1, -1), P'(1, -3) Q'(3, -5) an R'(4, -1).

(a) (i) On the grid provided, draw OPQR and its image O'P'Q'R' **(2mks)**

(ii) By construction, determine the centre and angle of rotation. **(2mks)**



(b) On the same grid as (a) (i) above, draw O"P"Q"R", the image of O'P'Q'R' under a reflection in the line $y = x$ **(2mks)**

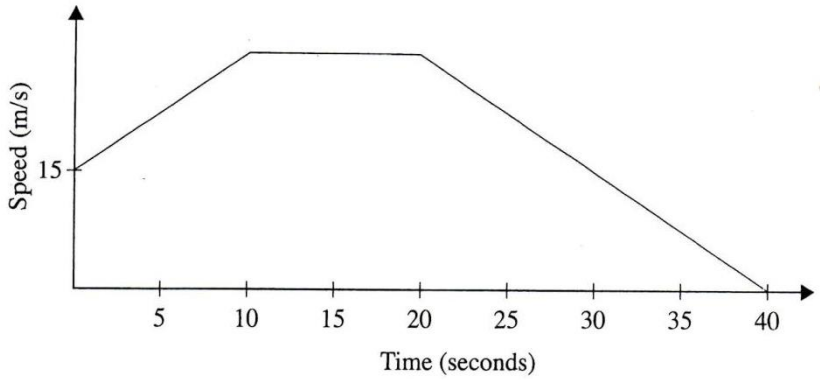
(c) From the quadrilaterals drawn, state the pairs that are:

(i) Directly congruent; **(2mks)**

(ii) Oppositely congruent **(2mks)**

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24. The figure below represents a speed time graph for a cheetah which covered 825m in 40 seconds.



(a) State the speed of the cheetah when recording of its motion started **(1mk)**

(b) Calculate the maximum speed attained by the cheetah **(3mks)**

(c) Calculate the acceleration of the cheetah in:

(i) The first 10 seconds **(2mks)**

(ii) The last 20 seconds **(1mk)**

(d) Calculate the average speed of the cheetah in first 20 seconds **(3mks)**

For Marking Schemes Contact 0746-222-000 / 0742-999-000

KCSE 2025 PREDICTION EXAM

POSSIBLE KCSE TEST 2

MATHEMATICS

121/2

PAPER 2

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO DANDIDATES

1. *Write your name, index number and class.*
2. *The paper contains two sections: Section I and II*
3. *Answer ALL questions in section I and ONLY FIVE questions from section II.*
4. *All working and answers must be written on the question paper in the spaces provided below each question.*
5. *Marks may be awarded for correct working even if the answer is wrong.*

FOR EXAMINER'S USE ONLY

SECTION 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	TOTAL

GRAND TOTAL

SECTION II

17	18	19	20	21	22	23	24	25	TOTAL

For Marking Schemes Contact 0746-222-000 / 0742-999-000

ANSWER ALL QUESTIONS.

1. Given that $(2x+a)(x+1) = 2x^2 + bx - 3$ determine the values of a and b. **(2 mks)**

2. A bag contains 5 white balls, 3 black balls and 2 green balls. A ball is picked at random from the bag and not replaced. In three draws find the probability of obtaining white, Black and Green in that order. **(2mks)**

3. Christine deposited Kshs. 50,000 in a financial institution in which interest is compounded quarterly. If at the end of the second year she received a total amount of Kshs. 79,692.40, calculate the rate of interest per annum. **(3mks)**

For Marking Schemes Contact 0746-222-000 / 0742-999-000

4. Given that $\frac{2\sqrt{3}}{1+\sqrt{3}} - \frac{\sqrt{3}}{1-\sqrt{3}} = a + b\sqrt{c}$ find the values of a, b and c. **(4mks)**

5. Three quantities P,Q and R are such that P varies jointly with Q and the square of R. find the percentage decrease in P if Q is increased by 50% and R decreased by 20%. **(3mks)**

6. Solve for Θ **(3mks)**

$8\cos^2\Theta - 2\cos\Theta = 3$

For $0^o \leq 0 \leq 180$

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7. Find the percentage error in the perimeter of a regular pentagon whose side is 15.0cm.

(3mks)

8. a) Show that the circle with equation $(x - 3)^2 + (y - 4)^2 = 25$ passes through the origin.

(1mk)

b)Find the coordinates of another point (not the origin) where the circle cuts x-axis. **(3mks)**

9. A survey carried out in a rural town on the number of young people who went for HIV test was shown in the table below:

% infected	36-39	40-43	44-47	48-51	52-55	56-59
No. of people	6	5	3	3	2	1

Calculate the quartile deviation of the data. **(4mks)**

10. Given that $y = \frac{b-bx^2}{cx^2-a}$ make x the subject. **(3mks)**

11. Shopping centres X, Y and Z are such that Y is 12km south of X and Z is 15km from X,Z is on a bearing of 330^o from Y. calculate the bearing of Z from X. **(3mks)**

12. a) Expand $(1 + \frac{1}{2}x)^7$ up to the term in x^3. **(2mks)**

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b) Hence find the value of $(0.96)^7$ correct to 3 decimal places. **(2mks)**

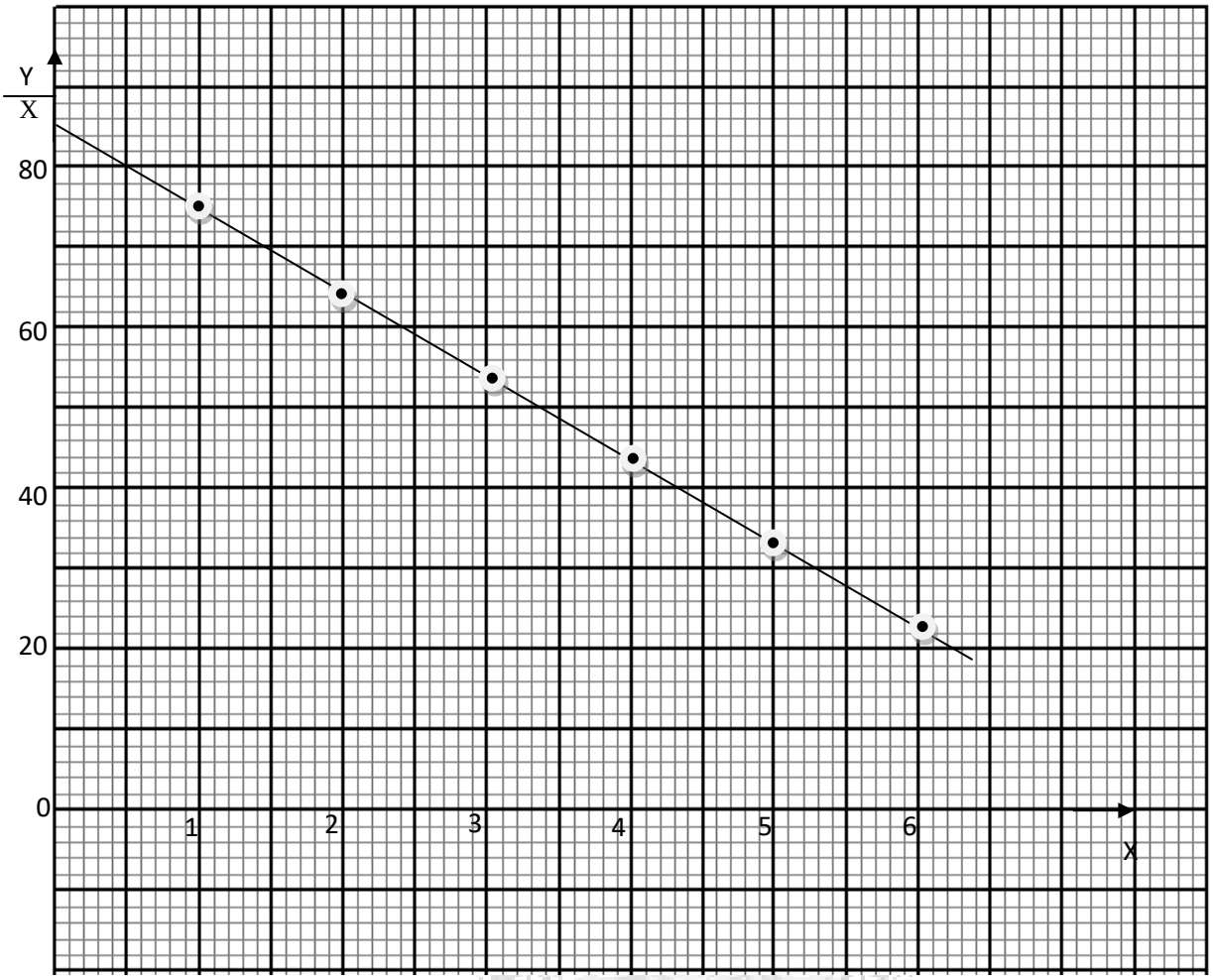
13. Solve for x given that $\log(5x-10) - \log\left(\frac{x}{15}\right) = \log 40 - \log\left(\frac{x}{20}\right)$ where x is not equal to zero. **(3mks)**

14. There are two grades of tea, grade A and Grade B. Grade A costs sh 80 per Kg while Grade B costs sh 60 per kg. in what ratio must the two be mixed in order to produce a blend costing sh 75 per kg? **(3mks)**

15. Use logarithm tables to evaluate. **(3mks)**

$$\frac{13.4 \times 9}{12 \times \log 4.82}$$

16. The graph below shows the linear relation between two variable X and Y connected by the expression $Y = pX^2 + qx$.



Using the graph, estimate, to the nearest whole number, the value of:

i. P **(2mks)**

ii. q **(1mk)**

For Marking Schemes Contact 0746-222-000 / 0742-999-000

SECTION B

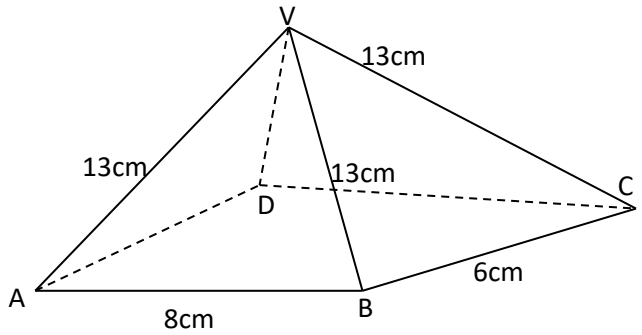
ANSWER ANY FIVE QUESTIONS IN THIS SECTION IN THE SPACES PROVIDED.

17. Two towns A(60^oN, 25^oW) and B(60^oN, 155^oE) are both on the same parallel of latitude and also on the same great circle. A pilot can fly from A to B along the parallel of latitude or along the great circle over the North pole.

a) Giving your answers to the nearest kilometer, determine which route is shorter and by how long (Take earth's radius = 6370km and $\pi = {}^{22}/_{7}$) **(6mks)**

b) The average speed of the aircraft is 600km/hr. calculate to the nearest minute the time taken by the pilot using either route) **(4mks)**

18. ABCDV is a rectangular based pyramid with AB = 8cm, BC=6cm and VA =VB=VC=VD=13cm.



a) Draw the net of the solid. **(2mks)**

b) Calculate the height of the pyramid. **(2mks)**

c) A line is drawn from V through the mid points of BC and AD to V. Calculate the length of this line. **(3mks)**

d) Determine the angle the plane VBC makes with plane VAD. **(3mks)**

For Marking Schemes Contact 0746-222-000 / 0742-999-000

19. A particle moves in a straight line and passes a point Q when t=0 sec but velocity V= 5m/s, it accelerates at the rate of a m/s^2 given by the formula a = 6t+ 4 when t is time taken.

a) Express the velocity of the particle at t seconds in terms of t. **(2mks)**

b) What is the velocity at t= 3 sec? **(2mks)**

c) Calculate the distance covered between t =1 and t=4. **(4mks)**

d) Find the acceleration when t = 2 seconds. **(2mks)**

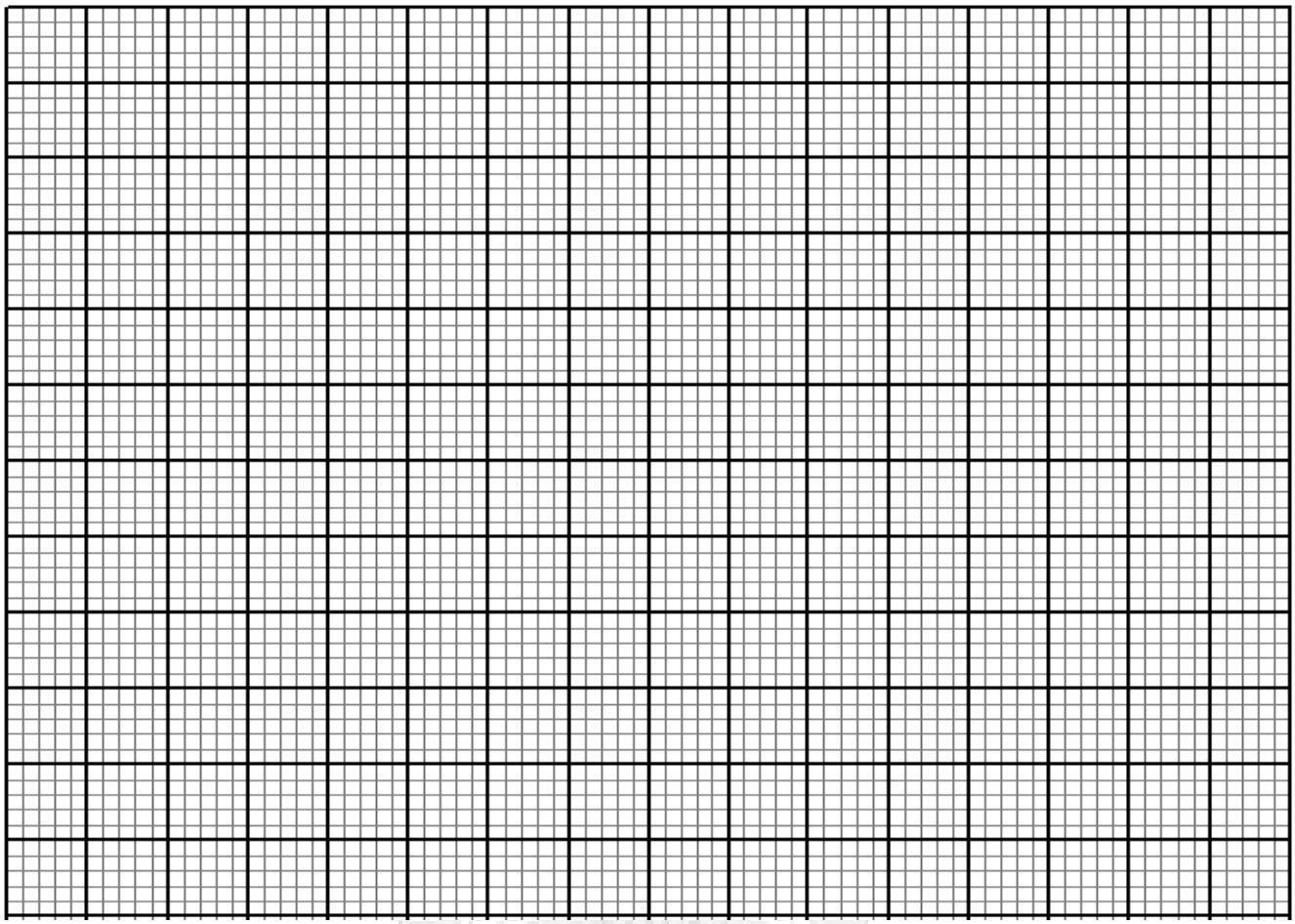
For Marking Schemes Contact 0746-222-000 / 0742-999-000

20. a) Complete the table below for the functions y = cosx and y = 2 cos (x+ 30^o) for O^0≤x≤360^o

(2mks)

x	0^o	30^o	60^o	90^o	120^o	150^o	180^o	210^o	240^o	270^o	300^o	330^o	360^o
Cos x													
2cos (x+30^o)													

b) On the same axis, draw the graph of y = cos x and y=2 cos (x+ 30) for 0^o ≤x≤360^o. **(4mks)**



c) State the amplitude of the graph y = cosx^o. **(1mk)**

ii) State the period of the graph y = 2 cos (x+ 30^o) **(1mk)**

d) Use your graph to solve **(2mks)**

Cos x = 2 cos (x + 30^o)

21. Two tanks of equal volume are connected in such a way that one tank can be filled by pipe A in 1 hour 20 minutes. Pipe B can drain one tank in 3 hours 36 minutes but pipe C alone can drain both tanks in hours. Calculate:

a) The fraction of one tank can be filled by pipe A in one hour. **(2mks)**

b) The fraction of one tank that can be drained by both pipes B and C in one hour. **(4mks)**

c) Pipe A closes automatically once both tanks are filled. Assuming that initially both tanks are empty and all pipes opened at once, calculate how long it takes before pipe A closes. **(4mks)**

For Marking Schemes Contact 0746-222-000 / 0742-999-000

22. The table below shows income tax rates.

Monthly income in the Kenya shillings	Tax rates percentage (%) in each shilling
Up to 10164	10
From 10165 to 19740	15
From 19741 to 29320	20
From 29321 to 37040	25
From 37041 and above	30

In one year, Mr. Kamau's monthly earning was as follows:

Basic salary 20,000
House allowance 12,000
Medical allowance 2,808
Transport allowance 1,764

a) Calculate:

i. Mr. kamau's taxable income. **(2mks)**

ii. Tax charged on Mr. Kamau's earning **(4mks)**

b) Mr. Kamau was entitled to the following tax reliefs:

i. Monthly personal relief at the rate of 15% of the premium paid. If Mr. Kamau paid a monthly premium of Kshs. 2,500 and cooperative shares of Kshs. 5,000 per month, calculate his net salary. **(4mks)**

For Marking Schemes Contact 0746-222-000 / 0742-999-000

23. The second, third and fourteenth terms of arithmetic progression are the three consecutive terms of a geometric progression. The 10^{th} term of the arithmetic progression is 18. Find:

a) The first term and the common difference of the progression. **(4mks)**

b) The sum of the first 10 terms of the Arithmetic progression. **(2mks)**

c) The sixth term f the G.P. **(4mks)**

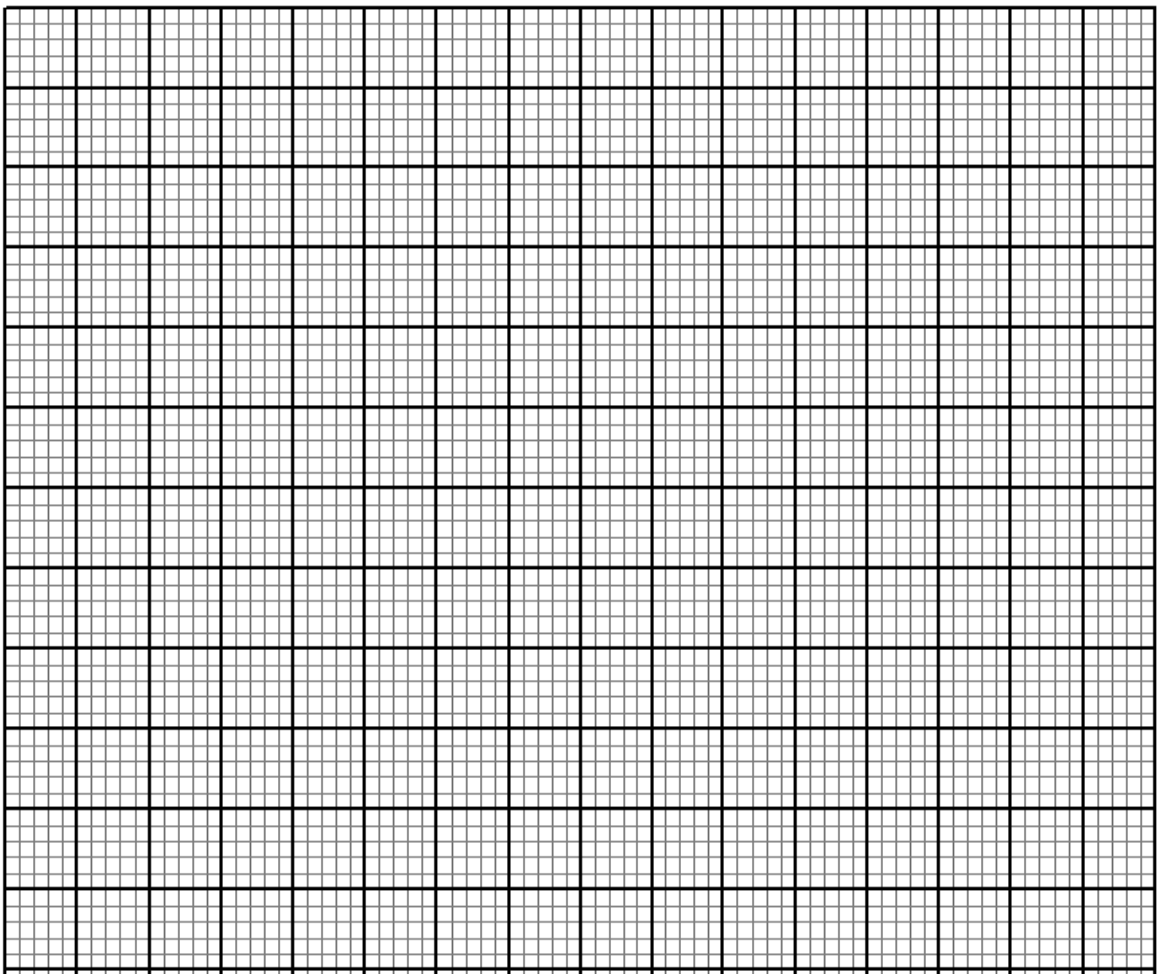
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24. A certain uniform supplier is required to supply two types of shirts: one for girls labeled G and the other for boys labeled B. the total number of shirts must not be more than 400. She has to supply more of type G than of type B. however the number of type G shirts must not be more than 300 and the number of type B shirts must not be less than 80. By taking x to be the number of type G shirts and y to be the number of type B shirts.

a) Write down in terms of x and y all the inequalities representing the information above.

(4mks)

b) On the grid provided below draw the inequalities and shade the unwanted regions. **(4mks)**



c) Given that type G costs shs. 500 per shirt and type B costs shs. 300 per shirt use the graph above to determine the number of shirts of each type that should be made to maximize the sales. **(2mks)**

KCSE 2025 PREDICTION EXAM

POSSIBLE KCSE TEST 2

COMPUTER STUDIES

451/1

PAPER 1 (THEORY)

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

- Write your name and Admission number in the spaces provided above
- *This paper consists of **two** sections A and B.*
- *Answer **ALL** questions in section A.*
- *.Answer question **11** and any other **THREE** questions from section B.*
- *All answers should be written in the spaces provided on the question paper.*

For Examiners Use Only

Section	Questions	Candidates Score
A	1-15	
B	16	
	17	
	18	
	19	
	20	
TOTAL SCORE		

For Marking Schemes Contact 0746-222-000 / 0742-999-000

SECTION A

Answer All questions in this section

1. Suggest **two** disadvantages of a notebook computer when compared with a desktop Computer. **(2 marks)**

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2. (a)What is a software suite? **(1 mark)**

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(b)Suggest **two** advantages of using a software suite. **(2 marks)**

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3. (a) Explain the two major types of software. **(2 marks)**

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(b) Give an example of each of the above **(2 Marks)**

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4. (a) Explain the term Process Control. **(1 Mark)**

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(b) State two areas where process control is used in industry **(2 Marks)**

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5. (a) Give **one** advantage of serial connection over parallel connection. **(1 mark)**

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(b) Give **one** advantage of parallel connection over serial connection. **(1 mark)**

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6. (a) Explain the term pipelining as used in CPU **(1 mark)**

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(b) Explain How parallel processing work **(1 mark)**

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7. Give **two** advantages and **two** disadvantages of display devices (e.g., monitors). **(4 marks)**

Advantages:

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Disadvantages:

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8. (a)Explain briefly why increasing the main memory may improve the performance (e.g., speed) of a computer system. **(1 mark)**

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(b) Explain the term memory address as used in primary memory **(1 mark)**

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9. Explain the following as used in word processing **(3 Marks)**

i. Spell-check

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ii. Thesaurus

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iii. Macros:

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10. Explain the following spreadsheet concepts:

i. Automatic Recalculation. **(1 mark)**

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ii. What if analysis **(1 mark)**

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11. Suggest **two** advantages of using presentation graphics software over the traditional chalk-and-talk approach in a school environment **(2 marks)**

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12. (a) Explain the term workstation as used in a networked environment **(1 mark)**

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(b)What is a server? **(1 mark)**

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13. (a)Explain briefly **identification** and **authentication** in computer access control**. (2 marks)**

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(b)What is a personal identification number (PIN)? **(1 mark)**

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14. (a)Explain the term ergonomics. **(1 mark)**

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(b)Suggest **two** possible causes of eyestrain due to prolonged use of computers. **(2 marks)**

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15. State **Three** benefits of telecommuting. **(3 marks)**

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SECTION B

Answer question 16 (compulsory) and any other three questions from this section

16. (a)(i) State and describe three types of error can occur in programming: **(3 Marks)**

(ii) When is a programming language considered structured? **(2 marks)**

(b)(i) The Global Science Museum is not large and can become over-crowded when more than 300 people are in the building. They would like a program that will stop visitors from entering when more than 300 visitors are in the building.

Design a Pseodocode segment for this problem using a REPEAT loop. You do not have to worry about visitors who leave the building, just those who have entered. **(3 Marks)**

For Marking Schemes Contact 0746-222-000 / 0742-999-000

(ii)Indentify **Three** aspects of a good HCI? . **(3 Marks)**

(c)(i)Give **one** advantage of compliers over interpreters **(1 mark)**

(ii)Give **one** advantage of interpreters over compliers **(1 mark)**

(iii)Explain briefly why the source codes must be translated again if the programmer wants to use the program on a computer with a different platform. **(1 mark)**

(iv). Explain why a programmer may prefer to write code for device drivers using low level languages. **(1 Mark)**

17. (a) (i) With the aid of examples, explain number complements in the Binary number systems **(2 marks)**

(ii) Outline the benefits of using binary number complementation in computers. **(2 marks)**

(b) (i) Why is binary number system best suited for use in computers**?** **(2 marks)**

(ii) Convert the following base two number into base ten. **(2 marks)**

11.01

(iii)Convert the following base sixteen number into base two. **2 marks)**

DEF=

(c) Carry out the following binary arithmetic:

(i) 11 + 10 **(1 mark)**

(ii) 101 X 11 **(1 mark)**

(iii) $^{101}/_{11}$ **(1 mark)**

(iv) 101 – 11 **(1 mark)**

18. Describe briefly the three data processing modes **(3 marks)**

i. Batching Processing Mode

ii. *Real-time Processing Mode*

iii. *Interactive Processing Mode*

(b)(i)Suggest **two** possible reasons for data preparation errors. **(2 marks)**

(ii) Suggest **two** possible reasons for data input errors. **(2 marks)**

(c) (i)Distinguish between **data validation** and **data verification**. **(1 mark)**

(ii)Give **two** examples of data verification techniques. **(2 marks)**

(d) Describe briefly the following data validation techniques

i. Presence Check **(1 mark)**

ii. Type Check **(1 mark)**

iii. Range Check **(1 mark)**

For Marking Schemes Contact 0746-222-000 / 0742-999-000

iv. Control Total Check **(1 mark)**

v. Parity Checks **(1 mark)**

19. (a) (i) Explain the term search engine **(1 mark)**

(ii) Peter and Mary use the same keyword to search for information. Suggest **two** reasons why their search results are different. (**2 marks)**

(iii)State **one** disadvantage of using an e-mail account provided by the Internet service provider (ISP). **(1 mark)**

(b) (i) Explain the term URL **(1 mark)**

(ii) For the URL **http://www.csklsc.net/pe/calendar.htm**,

http stands for **(1 mark)**

The domain name is **(1 mark)**

The top-level domain (TLD) is **(1 mark)**

pe stands for **(1 mark)**

(c) (i) Explain the term communication protocol **(1 mark)**

(ii)Explain the following types of communication protocol

Ethernet **(1 mark)**

Token Ring **(1 mark)**

TCP/IP **(1 mark)**

(iii)Give **Two** examples of wireless-based communications channels. **(2 marks)**

20. (a).Describe the role of the systems analyst. **(2 Marks)**

(b).Describe Two techniques used by the systems analyst in requirements elicitation. **(2 Mks)**

(c)What is a requirements specification and what does it contain? **(5 Marks)**

(d) Software development is often said to be an *iterative process*.

Describe Two events that might spark an iterative process in software development.**(2 Mks)**

(e) (i) Describe briefly the **three** basic e-commerce models. **(3 Marks)**

(ii) Apart from parental control, state **one** other ways of Internet censorship. **(1 mark)**

For Marking Schemes Contact 0746-222-000 / 0742-999-000

KCSE 2025 PREDICTION EXAM

POSSIBLE KCSE TEST 2

COMPUTER STUDIES

451/2

PAPER 2 (PRACTICAL)

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *Indicate your name and index number at the right hand corner of each printout*
b) *Write your name and index 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) *Marked printout of the answers on the sheet*
h) *Arrange your printouts and staple them together*
i) *Hand in all the printouts and the CD/removable storage medium used*
j) *All the work should be saved at the desktop of your computer in a folder named with our name and index number. All the work in your folder should be burned to the CD/WR provided*

For Marking Schemes Contact 0746-222-000 / 0742-999-000

1. The Management of a company owning a chain of hotels intend to use a spreadsheet program to compute the revenues in thousands of Kenya Shillings for the hotels during the 1st, 2nd, 3rd and 4th quarters. The hotels are rated as 2 star, 3star, 4 star and 5 star. **Figure 1** below shows an extract of the worksheet.

HOTEL	STAR CATEGORY	1ST	2ND	3RD	4TH	TOTAL REVENUE		
City Inn	4	174,400	177,400	127,900	180,800			
Forkland	2	173,700	111,300	194,900	103,700			
Highway	4	182,900	136,300	143,900	144,600			
Hiltop	5	188,500	124,700	173,500	171,200			
Membley	5	187,800	118,700	115,900	195,500			
Voyager	3	139,100	178,400	109,600	179,700			
Eden	2	200,000	112,200	109,100	117,200			
Palm	4	169,800	163,000	173,000	148,300			
The Shaza	5	163,900	106,800	107,100	150,500			
Total Quaterly Revenue								
Administrative cost								
Percentage 30%								

(a) Open a spreadsheet program and create the worksheet extract as it appears in Figure 1. Save the workbook as **Task 1** **(11 marks)**

(b) Use a function and cell addresses to calculate:

(i) Total revenue for each quarter; **(2 mark)**

(ii) Total revenue for each hotel.(2 marks)

(c) (i) Insert two rows above row I and type the title "MBALAMBALA GROŒ HOTELS" in cell Al (2 marks)

(ii) Merge the cells in the range Al I. **(l mark)**

(iii) Apply bold and font size 15 to the title. (1 mark)

(d) Using cell addresses only, compute the administrative cost for each quarter given that the cost is a percentage of total revenue and the percentage rate IS In cell B18. (34)

(e) Apply thick outside borders and regular inside borders to cells in the range A3:

(f) (i) Copy all the contents of the current worksheet to a new worksheet. (2 marks)

(ii)Rename the old worksheet as original and the new worksheet as formatted **(2 marks)**

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(g) (i) Change the page layout orientation of the formatted worksheet to landscape and the page size scaled to 80%. (2 marks)

(ii) Enter the values 2, 3, 4 and 5 in the cell range B20: B23 respectively representing the hotel star category ratings. (1 mark)

(iii)Using a function and cell references:

Icompute the total revenue for each hotel references;

II compute the total revenue for each hotel category in the 1st quarter using reference values in the range B20: B23 in cells C20: C23. (5 marks)

(iv) Sort the revenues from the hotels in descending order of hotels. (2 marks)

(h) (i) Create a column chart that compares the revenues of the hotels in star category 4 for the 1st and 2nd quarter. (4 marks)

(ii) Format the chart created as follows:

I. Chart title"FIRST AND SECOND QUARTER REVENUES"(2 marks)

II. Move the chart to a new sheet and rename the sheet as FourStar Revenues. (2 marks)

(i) Save the changes and print later each of the following:

(i) original worksheet showing the column and row headings; (2 marks)

(ii)formatted worksheet; (l mark)

(iii)FourStar Revenues chart. (1 mark)

2. Popo City planners intend to use a Desktop Publishing program to draw a plan for a section of a city. Assume you have been given the task.

(a) (i) Open a desktop publishing program and set the page layout orientation to portrait and and paper size to A4. (2 marks)

(ii) Save the publication as Task 2 (l mark)

(b) Create the city plan as it appears In Figure 2 ensuring that the design covers the entire printable area of the page. (46 marks)

(c) Save the changes and print the publication later. (l mark)

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POPO CITY PLAN

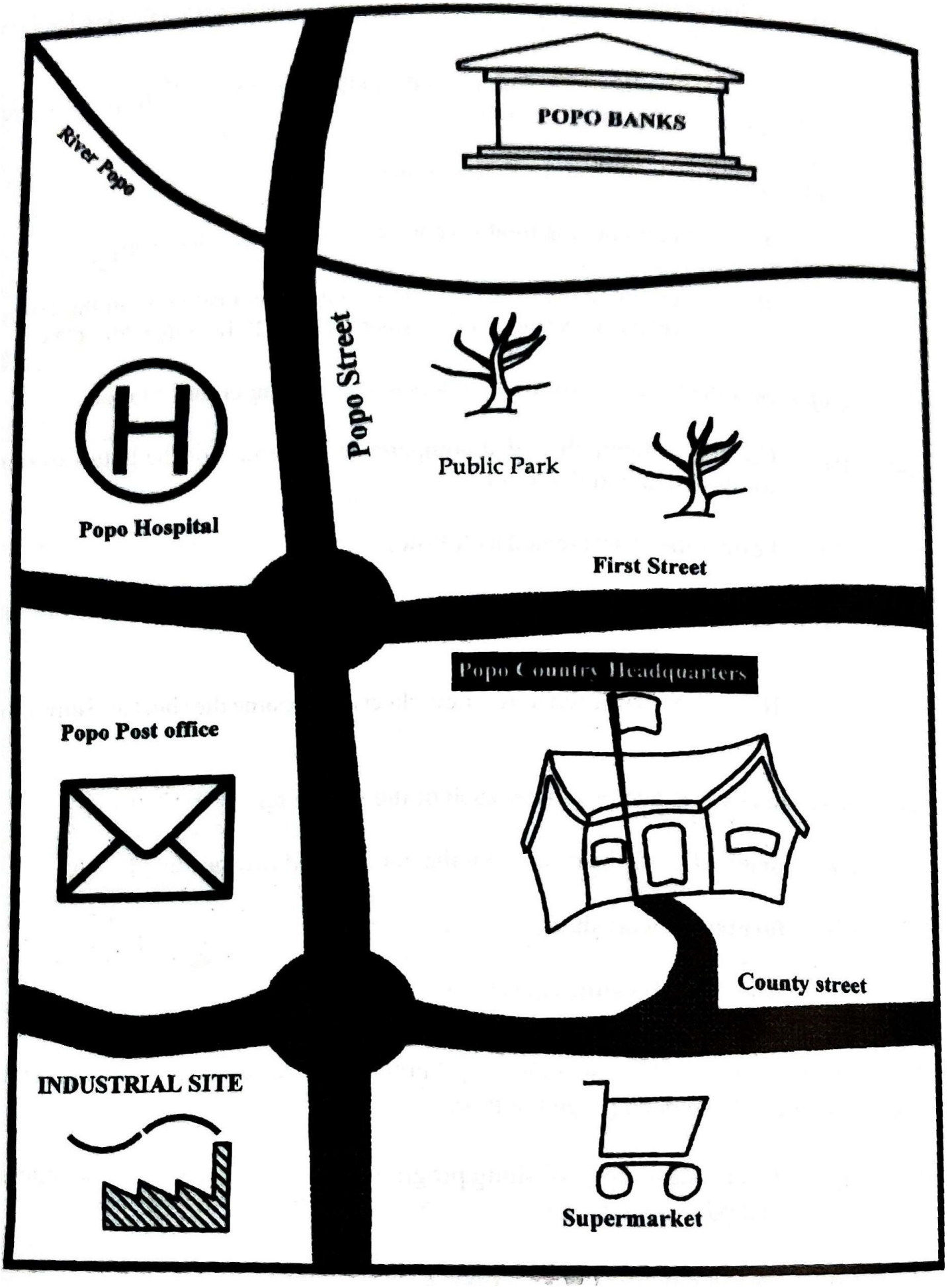

POPO BANKS
River Popo
Popo Street
Public Park
Popo Hospital
First Street
Popo Country Headquarters
Popo Post office
County street
INDUSTRIAL SITE
Supermarket

Figure 2

KCSE 2025 PREDICTION EXAM

POSSIBLE KCSE TEST 2

HOME SCIENCE

441/1

PAPER 1 (THEORY)

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

Instructions to candidates

1. *Write your name and index number in the spaces provided above.*
2. *Sign and write the date of the examination in the space provided*
3. *This paper consists of three sections A, B and C.*
4. *Answer all questions in Section A and B and any TWO questions from section C*
5. *Answers to all questions must be written in this booklet*
6. *This paper consists of 10 printed pages.*
7. *Candidates should answer the questions in English.*

FOR EXAMINER'S USE ONLY

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1 – 41	40	
B	41	20	
C	42-44	40	
	TOTAL	**100**	

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SECTION A: (40 MARKS)

Attempt ALL questions in this section. Write answers in the spaces provided.

1. Name the **two** layers of the skin. **(1 marks)**

……

……

2. Identify **two** kitchen plans categorized as wall based **(1 mark)**

……

……

3. Give **two** reasons why steamed food is best for invalids **(1 mark)**

……

……

……

4. Mention **two** career opportunities for a Home science graduate that stem from Hotel and Hospitality services **(1 mark)**

……

……

5. List any **two** vegetable fibres used for making brooms. **(1 mark)**

……

……

6. Give **two** groups of permanent stitches **(1 mark)**

……

……

7. Salt is a multipurpose substance in a home. Give two points in support of the Statement **(1 mark)**

……

……

……

8. List two products of dough **(1 mark)**

……

……

9. Mention two functions of stiletto in a Home science **laboratory** **(1 mark)**

……

……

10. Give any **two** classification of kitchen equipment under **plastics** **(1 mark)**

……

……

11. State **two undesirable** properties of asbestos as roofing material **(1 mark)**

……

……

12. State any **two** basic instructions on the use of medicine **(1 mark)**

……

……

……

13. Give **two** reasons for draining wastewater from a house **(1 mark)**

……

……

……

14. What are the signs of food poisoning?

……

……

15. List down two cases of under nourishment **(1 mark)**

……

……

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16. Give **two** examples of decorative seams **(1mark)**

……

……

18. With an example, define the term **beverage** **(1 mark)**

……

……

19. A wise consumer can obtain useful information from; **(1 mark)**

……

……

20. DPT is a combination vaccine against infectious diseases. Name any two of the diseases **(1 mark)**

……

……

21. List **two** laundry processes done on dirty clothes before they are put in water **(1 mark)**

……

……

22. Name **two** breast-feeding reflexes **(1 mark)**

……

……

23. Give **two** reasons for labeling a product **(1 mark)**

……

……

……

24. State **two** health related importance of a child's growth monitoring card**. (1 mark)**

……

……

……

25. Name any **two** types of cuts in repair of clothes **(1 mark)**

……

……

26. State **two** characteristics of pre-eclampsia in pregnancy **(1 mark)**

……

……

27. Define the following terms;

(i) Substitute products

……

……

(ii) Comparative shopping

……

……

28. Outline **two** precautions to take when laundering a patient's clothes. **(1 mark)**

……

……

……

29. Identify any **two** dangers of poor ventilation in a room. It can cause;

……

……

30. Give any **two** uses of Wood Ash to a homemaker

……

……

31. Give **two** functions of candles in a home. **(1 mark)**

……

……

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32. Name the **two** groups of hard furnishings **(1 mark)**

……

……

33. Identify **two** traditional methods of preserving meat **(1 mark)**

……

……

34. List **two** disadvantages of using convenience foods **(1 mark)**

……

……

35. Identify **two** ways of ensuring left over foods remains in good condition (**1 mark)**

……

……

36. Highlight two possible meanings of the term wardrobe **(1 mark)**

……

……

37. Mention any **two** shortcomings of abrupt **weaning** **(1 mark)**

……

……

38. Identify **two** problems faced by an ignorant consumer **(1 mark)**

……

……

39. List **two** symptoms of Hepatitis B. **(1 mark)**

……

……

40. Give any **two** points to bear in mind when storing clothes on hangers **(1 mark)**

……

……

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SECTION B: (20 Marks)

Compulsory- Answer question 41 in the spaces provided

41. You are helping your elder sister to prepare for her farewell party coming up next weekend. Red being her theme color.

a) (i). Pick and store fresh flowers to await the florist**.** **(4 marks)**

(ii). Launder her silk party dress **(6 marks)**

b) Thorough clean the top of her Formica dressing table with a mirror **(10 marks)**

SECTION C: (40 Marks)

Answer any TWO questions from this section in the spaces provided at the end of this section.

42. a) Describe how to take measurement of the following body parts**.** **(4 marks)**

(i) Inner trouser length

(ii) Hips

(iii) Crotch length

(iv) Wrist measurement

b) Mention **four** points to consider when planning meals for young children. **(4 marks)**

c) Give **four** importance of habit training **(4 marks)**

d) Outline **four** roles of advertisement **(4 marks)**

c) Briefly state the uses of the following alkalis in the home **(4 marks)**

(i) Sodium hydroxide

(ii) Ammonia

(iii) Sodium bicarbonate

(iv) Borax

43. a) Describe **four** methods of disposing household refuse **(4 marks)**

b) Give **four** points to observe when laying pattern pieces onto a prepared fabric before cutting out **(4 marks)**

c) List **four** contents of a First Aid kit and their uses respectively **(4 marks)**

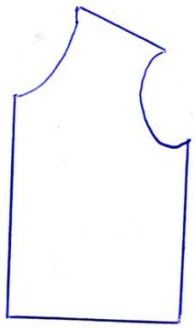
d) Outline four advantages of mortgaging as a way providing shelte**r** **((4 marks)**

e) Explain **four** factors, which may affect the eating habits of a community **(5 mks)**

44. a) Explain **four** factors that determine the repair method to be used on an article. **(4 marks)**

b) Explain **four** points on the care of a lactating mother **(4 marks)**

c) A bodice block of a blouse is given below. Indicate **four** possible pattern markings and their uses respectively**.** **(4 marks)**



d) Explain **four** mechanical ways of introducing air into flour mixtures **(4 marks)**

e) List and explain **four** factors that may affect family savings **(4 marks)**

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KCSE 2025 PREDICTION EXAM

POSSIBLE KCSE TEST 2

HOME SCIENCE

441/2

PAPER 2

TIME: 2½ HOURS

SCHOOL…… **SIGN……**

Kenya Certificate of Secondary Education.

441/2

HOME SCIENCE

CLOTHING CONSTRUCTION

Paper 2

CONFIDENTIAL

Each student should be provided with the following;

1. Plain light weight cotton fabric 55 cm by 90 cm.
2. Sewing thread to match the fabric.
3. Button
4. 1 large envelope.

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KCSE 2025 PREDICTION EXAM

POSSIBLE KCSE TEST 2

HOME SCIENCE

441/2

PAPER 2 (CLOTHING CONSTRUCTION)

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

This paper consists of 3 printed pages Candidates should check the question paper to ensure that all pages are printed as indicated and that no questions are missing.

A pattern of a girl's blouse is provided. You are advised to study the sketches, instructions and the layout carefully before you begin the test.

MATERIALS PROVIDED

1. Pattern pieces
   - A - FRONT BODICE
   - B - BACK BODICE
   - C - SLEEVE
   - D - COLLAR
   - E - SCALLOPED FRILL
   - F -POCKET
   - G - SLEEVE BINDING

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2. Plain light weight cotton fabric 55 cm by 90 cm.
3. Sewing thread to match the fabric.
4. Button
4. 1 large envelope.

THE TEST

Using the materials provided, cut out and make up the **RIGHT HALF** of the girl's blouse to show the following.

1. Cutting out. (16mks)
2. Making of the shoulder dart on the sleeve (5mks)
3. Preparation and attachment of the pocket ($10^1/_2$mks)
4. Making the underarm seam and side seam using open seam. ($5^1/_2$mks)
5. The joining of the front bodice to the sleeve using French seam (6mks)
6. Joining the back bodice to the sleeve using plain seam. Do not trim, do not neaten.

   ($5^1/_2$mks)
7. a) Preparation of gathers at the lower edge of the sleeve. (2mks)
   b) Managing the lower edge of the sleeve by binding ($4^1/_2$mks)
8. Preparation and attachment of the collar using self-neatening method. Finish the using hemming stitches. (10mks)
9. Attaching of the scalloped frill to the lower edge of the blouse using overlaid seam.

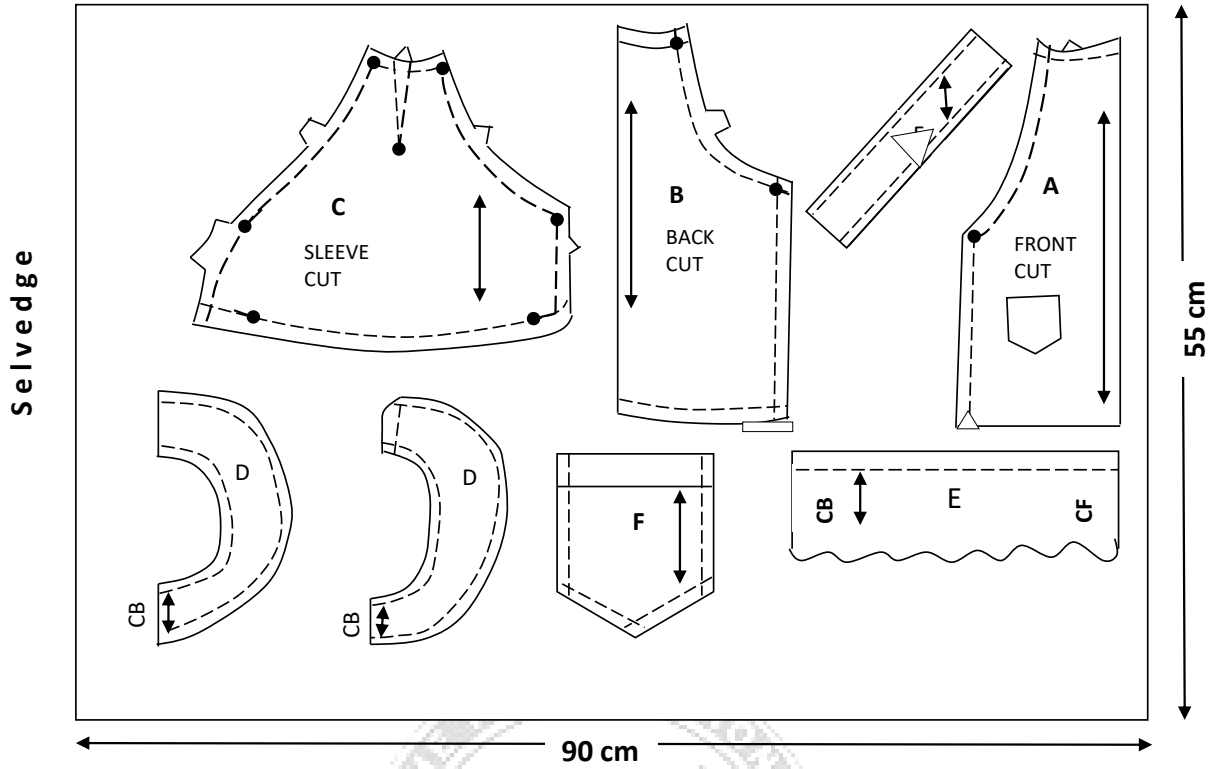
   (9mks)
10. Making the buttonhole at the collar. ($6^1/_2$mks)
11. Fixing the button to be used together with the buttonhole at the collar ($3^1/_2$mks)
12. Presentation. (6mks)

NOTE:

At the end of the test, firmly sew on to your work on a single fabric a label bearing your name, class and admission number. Remove needles and pins from work. Then fold your work carefully and place it in the envelope. DO NOT PUT SCRAPS OF MATERIALS IN THE ENVELOPE.

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LAYOUT – NOT DRAWN TO SCALE



VIEWS

FRONT **BACK**



KCSE 2025 PREDICTION EXAM

POSSIBLE KCSE TEST 2

HOME SCIENCE

441/3

PAPER 3

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

441/3

HOMESCIENCE (FOOD AND NUTRITION)

PAPER 3

PRACTICAL

1HR 15 MINUTES

PLANNING SESSION 30 MINUTES

PRACTICAL TEST SESSION IHR 15MIN

Instruction to candidates

a) *Read the test carefully.*

b) *Write your name and index number on every sheet of paper.*

c) *Textbooks and recipes may be used during the planning session as reference materials.*

d) *You will be expected to keep your order of work during the practical session.*

e) *You are only allowed to take away your reference materials at the end of the planning session.*

f) *This paper consists of 2 pages.*

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

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THE TEST

You are at home for midterm break with your brother. Using **ALL** the ingredients listed below plan, prepare and present a full breakfast including two carbohydrate items for the two of you.

Ingredients;

- Millet/maize flour
- Plain wheat flour
- Milk
- Sugar
- Salt
- Tea leaves/cocoa
- Oil/fat
- Baking powder (optional)
- Eggs
- Sausage
- Arrow roots/sweet potatoes
- Fruit in season

PLANNING SESSION; 30 minutes

For each task listed below, use separate pieces of paper and make duplicate copies using carbon paper. Proceed as follows;

1. Identify the dishes and write down their recipes.
2. Write down your order of work.
3. Make a list of food stuffs and equipment you will require.

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THE END

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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

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