KCSE 2025 REVEALED EXAM

ALL SUBJECTS

Presenting a painstakingly designed collection of KCSE 2025 prediction tests that provide thorough, well-structured, and extensive covering of a wide range of topics. These tests, which are made to resemble real exam requirements, give students invaluable practice, in-depth subject comprehension, and confidence-boosting preparation.
An indispensable tool for achieving success in the forthcoming national examinations.

SUBJECTS TESTED;

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

(A CONFIDENTIAL ANALYSIS OF POSSIBLE QUESTIONS)

For Marking Schemes
Mr Isaboke 0746-222-000 / 0742-999-000

ULTIMATE KEY TO SUCCESS

KCSE 2025 REVEALED EXAM

JOINT SERIES 1

313/1 Christian Religious Education Paper 1

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 examination in the spaces provided above.

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

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

e) *Each question carries 20 marks.*

f) Candidates must answer the questions in English.

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)

For Marking Schemes Contact 0746 222 000 / 0742 999 000

KCSE 2025 REVEALED EXAM

JOINT SERIES 1

313/2 Christian Religious Education 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 examination in the spaces provided above.

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

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

e) *Each question carries 20 marks.*

f) Candidates must answer the questions in English.

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) 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)**

3.a) 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. **(6 mks)**

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

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)**

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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)**

For Marking Schemes Contact 0746 222 000 / 0742 999 000

KCSE 2025 REVEALED EXAM

JOINT SERIES 1

311/1 History and Government Paper 1

Time: 2½ Hours

NAME……

SCHOOL…… **SIGN**……

INDEX NO…… **ADM NO**……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES.

i *Write your Name, Admission number and stream.*

ii *Answer ALL questions in the answer sheets provided.*

iii *Answer ALL questions in section A, Three questions in the section B and Two questions in section C.*

iv *Candidates should answer the questions in English.*

FOR EXAMINERS USE ONLY

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

SECTION A (25 marks)

Answer all questions from this section.

1) Name the original inhabitants of Kenya during the colonial period. **(1mark)**

2) Identify **one** pre-historic site in Kenya where remains of Ramapithecus were found **(1mark)**

3) Give **two** environmental reason for the migration of the Luo community in Kenya **(2 marks)**

4) Name the **two** winds that were used by the early visitors to and from the East African coast up to 1500 AD **(2 marks)**

5) Identify **two** social problems facing Nairobi as a modern urban Centre **(2 marks)**

6) Outline **two** political responsibilities of a Kenyan citizen **(2 marks)**

7) Identify any **two** groups in charge of monitoring the observation of human rights in Kenya. **(2 marks)**

8) Give the main significance of the repeal of section 2A of the Kenyan constitution in 1991. **(1mark)**

9) Name the treaty that marked the end of partition of East Africa **(1mark)**

10) State the main recommendation of the Lyttleton constitution of 1954 in Kenya. **(1mark)**

11) Which education commission in Kenya recommended the establishment of 8-4-4 system? **(1mark)**

12) Give the main reason for convening the second Lancaster House Conference **(1mark)**

13) Who is the Chief Legal advisor of the National Government in Kenya **(1mark)**

14) Name the **two** categories of the members of National Assembly **(2 marks)**

15) What was the immediate cause of the declaration of state of emergency in Kenya on 20th October 1952? **(1mark)**

16) Name **two** types of land tenure systems/hand holdings in Kenya **(2 marks)**

17) Identify any **two** types of revenue funds created by 2010 constitution. **(2 marks)**

SECTION B (45marks)

Answer any three questions from this section

18) (a) Outline **five** social results of migration of the Bantu community **(5 marks)**

(b) Explain the political organization of the Somali community during the pre-colonial period **(10 mrks)**

For Marking Schemes Contact 0746 222 000 / 0742 999 000

19) Give **five** sources of information on contact between East African Coast and outside world **(5 marks)**

(b) Explain **five** impacts of Indian Ocean trade on the people of East African Coast **(10 mrks)**

20) Outline **three** roles of the trade union movements in Kenya during the colonial period **(3 marks)**

Explain **six** problems faced by early political parties in Kenya from 1919 – 1939 **(12 marks)**

21) (a) Identify **three** demands raised by the African Elected members organization (AEMO) to the colonial secretary in 1957 **(3 marks)**

(b) Explain **six** social results of national philosophies in Kenya **(12 mrks)**

SECTION C (30marks)

Answer any two questions from this section

22) (a) State **three** rights of arrested persons **(3 marks)**

(b) Explain **six** factors promote national unity in Kenya **(12 mrks)**

23) (a) Outline **three** reasons that may lead to a by-election in Kenya **(3 marks)**

(b) Explain **six** roles of the National Assembly **(12 mrks)**

24) (a) State **three** advantages of Devolution in Kenya **(3 marks)**

(b) Explain **six** sources of revenue for county governments in Kenya. **(12 mrks)**

For Marking Schemes Contact 0746 222 000 / 0742 999 000

KCSE 2025 REVEALED EXAM

JOINT SERIES 1

311/2 History and Government Paper 2

Time: 2½ Hours

NAME……

SCHOOL…… **SIGN**……

INDEX NO…… **ADM NO**……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES.

i *Write your Name, Admission number and stream.*

ii *Answer ALL questions in the answer sheets provided.*

iii *Answer ALL questions in section A, Three questions in the section B and Two questions in section C.*

iv *Candidates should answer the questions in English.*

FOR EXAMINERS USE ONLY

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

SECTION A (25 marks)

Answer all questions from this section.

1) Identify one unwritten source of information in History and Government. **(1 mark)**

2) Give two uses of stone tools by early people. **(2 marks)**

3) What planting method was used by European farmers before the agrarian revolution? **(1 mark)**

4) What is the **MAIN** factor that stimulated the development of Trans-Atlantic trade**? (1 mark)**

5) State two reasons why the camel is referred to as 'the ship of the desert'. **(2 marks)**

6) Identify two forms of messages that could be relayed by the use of drum beats in Ancient times. **(2 marks)**

7) Mention one disadvantage of using coal as a source of energy. **(1 marks)**

8) Identify two metals that were used to replace stone tools in Africa. **(2 marks)**

9) State one problem which faced Athens. **(1 mark)**

10) State one way through which the Europeans maintained peace among themselves during the partition of Africa. **(1 mark)**

11) Give two social reasons for the European scramble for Africa. **(2 marks)**

12) State two conditions that one had to fulfill to become assimilated to French West Africa. **(2 marks)**

13) Give the main reason for the formation of the League of Nations. **(1 mark)**

14) Identify one member of the central powers that fought during the First World War. **(1mark)**

15) State the main function of the International court of Justice. **(1 mark)**

16) Name two founder leaders of Non-Aligned movement (NAM). **(2 marks)**

17) State two reasons why Zanzibar favoured a union with the mainland Tanganyika in 1964. **(2 marks)**

SECTION B (45 MARKS)

Answer any THREE questions from this section.

18) (a)Outline three physical characteristics of Egyptian ape. **(3 marks)**

(b)Describe the culture of the early man during the Old Stone Age. **(12 mrks)**

19) (a)Give three features of agricultural practices in Britain before Agrarian revolution.(**3 marks)**

(b)Explain six measures that can be adopted to alleviate the food shortage in Africa.**(12 mks)**

For Marking Schemes Contact 0746 222 000 / 0742 999 000

20)(a)State 3 economic activities of the Asante during the 19th century. **(3 marks)**

(b)Describe the social organization of the shona during the colonial period. **(12 mrks)**

21)(a)Give three reasons why the Maji Maji rebellion failed. **(3 marks)**

(b)Explain six reforms introduced by German administration after the Maji Maji rebellion. **(12 mrks)**

SECTION C (30 MARKS)

Answer any TWO questions from this section.

22) (a)State five reasons why Britain used indirect rule in Nigeria. **(5 marks)**

(b)Discuss five effects of indirect rule in Nigeria. **(10 mrks)**

23)(a)Give **three** political changes introduced by Mobutu Seseko which led to dictatorship in D.R.C **(3 marks)**

b) Describe six social challenges that have faced Tanzania since independence. **(12mrks)**

24)(a)State five functions of the British House of Commons. (**5 marks)**

(b)Explain five factors that limit parliamentary supremacy in Britain. **(10 mrks)**

For Marking Schemes Contact 0746 222 000 / 0742 999 000

KCSE 2025 REVEALED EXAM

JOINT SERIES 1

312/1 Geography 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	

SECTION A

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

1. (a) Apart from the Sun and the planets, give **two** other heavenly bodies found in the solar system. **(2 marks)**

(b) State **three** characteristics of the earth's crust. **(3 marks)**

2. (a) Define the term weather. **(2 marks)**

(b) List **two** types of rainfall common in Kenya. **(2 marks)**

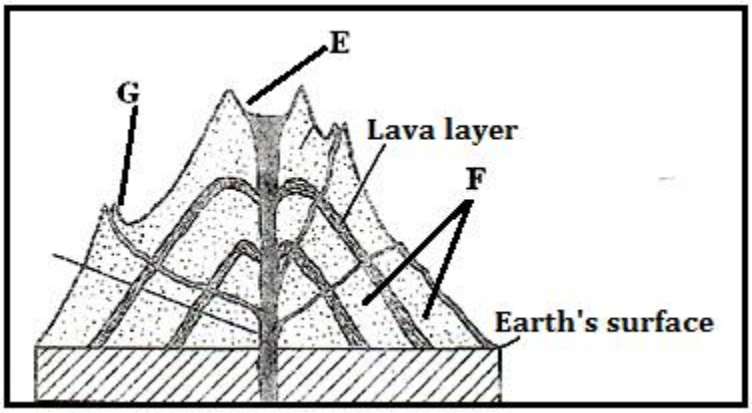
3. (a)Name **two** parts of Africa that experience equatorial climate. **(2 marks)**

(b)List **three** major climatic regions of Kenya. **(3 marks)**

4. (a) Give **two** categories of lakes formed due to earth movements. **(2 mark**

(b) State **three** conditions necessary for the formation of ox-bow lakes. **(3 marks)**

5. The diagram below shows an extrusive volcanic feature.



(a) Identify the parts marked E, F and G. **(3 marks)**

(b) Outline **three** ways in which a caldera may be formed. **(3 marks)**

SECTION B

(Answer question 6 and any other two questions from this section)

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

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

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

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

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

For Marking Schemes Contact 0746 222 000 / 0742 999 000

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

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

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

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

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

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

7. (a)(i)Define the term folding. **(2 mark**

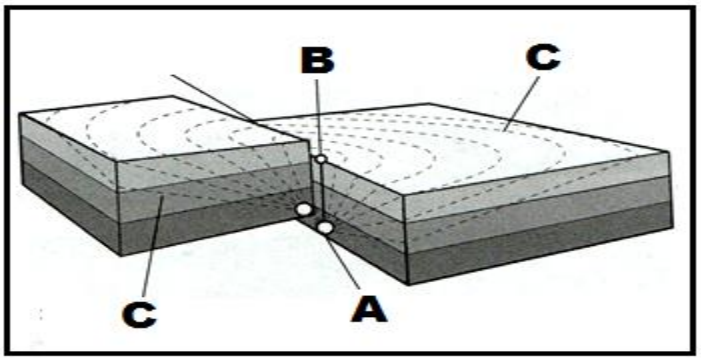
(b) (i)Name **five** types of folds. **(5 marks)**

With the aid of well labelled diagrams, describe how Fold Mountains were formed. **(10 marks)**

(c) Explain **four** economic importance Fold Mountains to people. **(8 marks)**

8. (a)(i)Define the term earthquake. **(2 marks)**

(ii) The diagram below shows the occurrence of an earthquake. Name the parts marked A, B, and C. **(3 marks)**



(b)(i)Apart from the movement of tectonic plates, outline **four** other natural causes of earthquakes. **(4 marks)**

(ii) Explain **two** ways in which movement of tectonic plates causes earthquakes. **(4 marks)**

(c)State **three** differences between the intensity and magnitude of an earthquake. **(6 marks)**

(d)Explain **three** effects of earthquakes in built up areas. **(6 marks)**

For Marking Schemes Contact 0746 222 000 / 0742 999 000

9. (a)(i)What is a river? **(2 marks)**

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

(b)Explain **four** ways through which a gorge may be formed. **(8 marks)**

(c)Explain the following drainage systems.

(i) Accordant drainage. **(2 marks)**

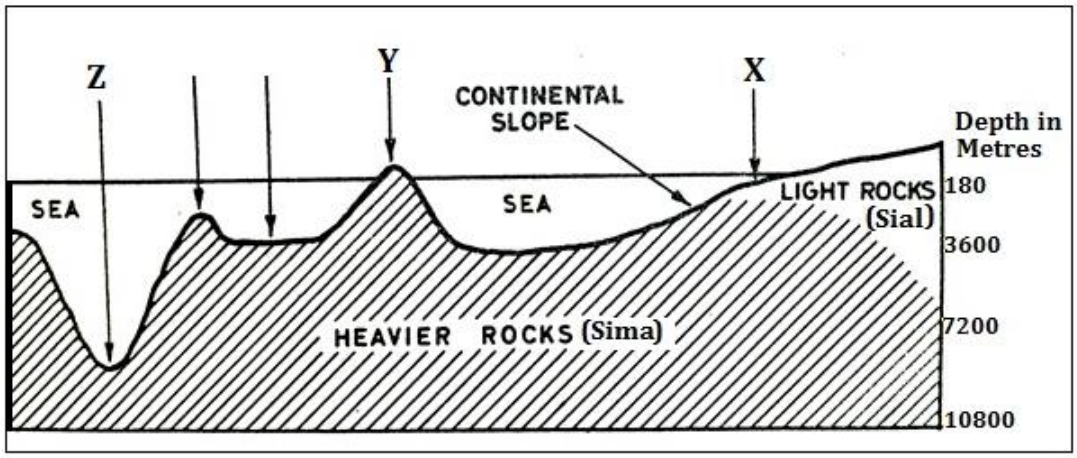
(iii)Back tilted drainage. **(2 marks)**

(d)Suppose you were to carry out a field study along the lower course of a major river.

(i) State **five** reasons why it is important to conduct a pre-visit to the area of study. **(5 marks)**

(ii)State **three** follow –up activities that you would do after the study. **(3 marks)**

10. The diagram below shows some features that form ocean topography.



(a) (i) Identify the features marked X, Y and Z. **(3 marks)**

(ii) State **three** sources of salt in ocean water. **(3 marks)**

(b) Explain how the following factors influence the rate of wave erosion:

(i) Gradient of the coast. **(2 marks)**

(ii) Nature of coastal rocks. **(2 marks)**

Size of waves. **(2 marks)**

(c) Describe how a cave is formed at the coast. **(5 marks)**

(d) Explain **four** economic importance of coastal features. **(8 marks)**

For Marking Schemes Contact 0746 222 000 / 0742 999 000

KCSE 2025 REVEALED EXAM

JOINT SERIES 1

312/1 Geography 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.*

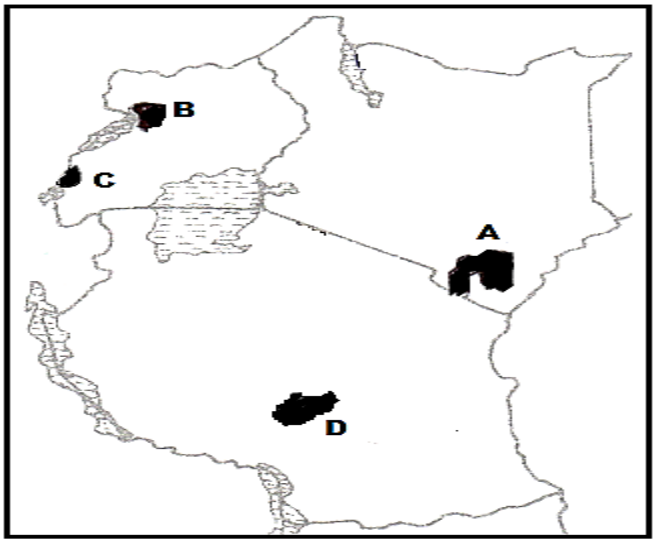
1. (a)List the **two** types of environment. **(2 marks)**

(b)Explain how Geography is related to economics. **(2 marks)**

2. (a)Name **two** main indigenous breeds of beef cattle reared in Kenya. **(2 marks)**

(b)State t**hree** ways in which government policy influences agriculture in Kenya. **(3 marks)**

3. The diagram below some national parks in East Africa. Name the parks marked A, B, C and D. **(4 marks)**



4. (a) Give **two** main projects through which land was reclaimed in the Netherlands. **(2 marks)**

(b) State **four** benefits that resulted in the reclamation of the Yala swamp in Kenya. **(4 marks)**

5. (a) State **three** physical factors favouring coffee farming in Brazil. **(3 marks)**

(b)Give three similarities between coffee farming in Kenya and in Brazil. **(3 marks)**

SECTION B

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



(a) (i) Identify the type of photograph provided. **(1 mark)**

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

(iii) Identify the main activity shown on the photograph. **(1 mark)**

(b)(i)Draw a rectangle 15 cm by 10 cm to represent the area covered by the photograph. **(1 mark)**

(ii) On the rectangle, sketch and label **five** human made features. **(5 marks)**

(c)(i)State **five** reasons why river transport is poorly developed in Africa. **(5 marks)**

(ii)Explain **five** measures taken to solve transport and communication problems in Africa. **(10 mrks)**

7. (a)(i)Define the term mining. **(1 mark)**

(ii)Give **four** factors that the occurrence of minerals. **(4 marks)**

(b) Explain **three** ways in which mining activities cause pollution. **(6 marks)**

(c) Describe the stages involved in gold processing in South Africa **(6 marks)**

(d) Explain **four** problems facing the gold mining industry in South Africa **(8 marks)**

8. (a) What is unfavourable balance of payments? **(2 marks)**

(b)Name **three** major imports to Kenya from the Far East Asia. **(3 marks)**

(c)Explain **four** benefits of international trade to Kenya. **(8 marks)**

(d)(i)State **four** objectives of ECOWAS. (**4 marks)**

(ii)Explain **four** problems facing regional trading blocs in Africa. **(8 marks)**

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

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

(b) Explain **four** positive effects of high population growth to a country. **(8 marks)**

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

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

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

(ii)List the **three** functional zones of an ideal urban centre. **(3 marks)**

(b)Explain **four** physical factors that influence settlement. **(8 marks)**

(c)Explain **four** factors that have led to the growth of Rotterdam as a large port. **(8 marks)**

(d)State **four** similarities in the functions of Nairobi and New York cities. **(4 marks)**

For Marking Schemes Contact 0746 222 000 / 0742 999 000

KCSE 2025 REVEALED EXAM

JOINT SERIES 1

101/1 English Paper 1

(Functional Skills, Cloze Test and Oral Skills)

Time: 2 Hours

NAME……

SCHOOL…… **SIGN**……

INDEX NO…… **ADM NO**……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES.

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

b) *Answer all questions in this question paper.*

c) *All your answers should be written in the spaces provided in this question paper.*

d) *Contains six printed pages.*

e) *All answers should be written in English.*

FOR EXAMINER'S USE ONLY.

Question	Maximum Score	Candidate's Score
1	20	
2	10	
3	30	
Total	60	

For Marking Schemes Contact 0746 222 000 / 0742 999 000

FUNCTIONAL WRITING **(20 MARKS)**

1. Since last year third term, your class form 4 Green's academic performance has been drastically going down. This has raised a lot of worries in the entire school, and it was one of the issues that came up during the release of the first examinations results of this term. After that meeting, the School Principal summoned you as the Class Prefect to his office and requested you to lead a class committee to find out the reasons for such a performance. Write a report that you would present to him in two weeks' time underlining the causes for this performance by your class and the recommendations that you suggested. **(20 marks)**

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CLOZE TEST **(10 MARKS)**

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

The National Health Insurance 1……once again in the eye of 2.....storm after it paid Kshs 336.3 million to a law 3….....that had not been prequalified to bid 4……..tenders with health providers in the 5….....scandal unearthed by Auditor-General, Nancy Gathungu. Curiously, the drafting fully paid for by the 6….....was not part of the NHIF approved 7….....plan for 2018/2019- the period within 8……..the payment was done. This is 9….....to the Public Procurement and Assets Disposal Act 2015. No money had been 10… ..... to pay for legal service and therefore, it went against Public Finance Management (PFM) Act.

ORAL SKILLS **(30 MARKS)**

***a)* Read the narrative below and answer the questions that follow**

One afternoon, a big wolf waited in the dark forest for a little girl to come along carrying a basket of food. Finally, the little girl did come along and she was carrying the basket of food. "Are you carrying thebasket to your grandmother?" asked the wolf. The little girl answered, "Yes I am." So the wolf asked the girl where her grandmother lived. When the girl told him he disappeared to the woods. When the little girl opened the door of her grandmother's house, she noticed there was somebody in bed with a night capand a night gown.

She realized that it was the wolf, so the little girl took a dagger from her basket and stubbed the wolfdead.

Questions:

If you were narrating this story, how would you ensure your audience remains glued to it?

(2 marks)

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ii) How would you say the words of the wolf in your narration? **(2 marks)**

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iii.)How would you prepare yourself to tell the story effectively**?** **(3 marks)**

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b.) Provide a word pronounced in the same way as each of the ones below **(4 marks)**

Bald –

Manna –

Colonel –

iv.)Liar –

c.)**Insert the following words in the corresponding column to show whether it has a /θ/ /ʃ/ /ʒ/ or /ð/ sound according to the underlined sound. Examples of words with those sounds have been given.** ***(4 marks)***

Ten<u>th</u>, <u>S</u>ugar, Spe<u>c</u>ial, Fa<u>th</u>er, Garag<u>e</u>, Ma<u>th</u>ematics, Lei<u>s</u>ure, <u>Th</u>emselves

/θ/ **pa<u>th</u>**	/ʃ/ **<u>sh</u>irt**	/ʒ/ **plea<u>s</u>ure**	/ð/ **<u>th</u>at**

d.) A leader of a Theatre Group is visiting your school to arrange for the staging of Literature Sets Books. You have been appointed by the class to negotiate for favorable entry fee for your class and you are meeting the leader for the first time. Explain 4 negotiation skills that you would employ to ensure successful negotiations**.** **(4 marks)**

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e) Mary cannot bear children

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

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Give the **two** possible meanings of the above **(2 marks)**

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Give **one** function of the above genre. (1 mark)

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f.) **Study the following situations and write down what you would say in each case.(3 marks)**

i) When walking along the corridor, you accidentally bump into somebody out of your own clumsiness.

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ii.) You are engaging in a conversation and you catch yourself interrupting the other person

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You want to introduce a point during a discussion which contradicts what the other personhas said.

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Indicate the appropriate intonation at the end of each sentence. (4 marks)

Have all the students been registered? ……...

Stop wasting time. …….

That was superb! …….

There is hope for Cancer patients. ……

KCSE 2025 REVEALED EXAM

JOINT SERIES 1

101/2 English Paper 2

(Comprehensive, Literary Appreciation and Grammar)

Time: 2½ Hours

NAME……

SCHOOL…… **SIGN**……

INDEX NO…… **ADM NO**……

Kenya Certificate of Secondary Education.

Instructions to students

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

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

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

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

Question	Maximum Score	Student's Score	Examiner's Initials
COMPREHENSION	*20*		
EXCERPT	25		
ORAL LITERATURE	20		
GRAMMAR	15		
TOTAL	**80**		

For Marking Schemes Contact 0746 222 000 / 0742 999 000

QUESTION 1: COMPREHENSION

Read the passage below and answer the questions that follow. (20marks)

The career market is full of opportunities. Gone are the days when we had 'either … or' career choices. The times when women, for example, chose between only nursing, teaching and secretarial work are long gone. The explosion in communication technology, and the liberalization and globalizations of the world economy, has ensured that there is no longer a **dearth** of career choice. Today, colleges and universities offer a wide range of training opportunities to high school graduates. This has made choosing a career an involving process. It has also given rise to the need for career counseling.

When choosing a career, whether you have the help of a career counselor or not, there are several factors that you should consider. These include your abilities or talents, your interests, your priorities, and the available opportunities in the job market.

The skills required in a particular career and the ability to gain them though education must be considered when choosing careers. Becoming a doctor, for instance, requires extensive education and training, and many years of educational commitment. In addition to the compulsory subjects, the academic background required for this career is good grades in chemistry and biology at secondary school level. If your ability in these subjects is just average, you would be overstretching your luck to enroll for a Bachelor of Medicine course. In the past, students have chosen to pursue training in engineering, even when their ability to handle physics and mathematics was low. This, in many cases, has made them drop out of the class mid-course. The waste of time and resources would have been avoided if they had considered a career that did not require the ability to handle mathematics and physics well.

There are times when people have been driven to choose a particular career because of the salary and prestige associated with jobs in that field. At times, the desire to take certain courses comes from within the individual, but most times, individuals feel pressured by peers or family to take certain courses. Joining a career in which you have no interest is a recipe for a dull life since you will spend most of your working hours doing something you do not like. Your career does not necessarily have to be your passion, but it should not bore you to death either. You can work out your interests by identifying the subjects you enjoy most at school, or the topics that are of interest to you and for which you take the initiative to read on your own.

It is true that many young people are attracted more by the **social mobility** that the job might provide than by their interest in the career. However, research has found that money does not play as big a role in job satisfaction as many people think. Of course we all have to make a living, but if you do not like your job, it does not matter how much you get paid to do it. What does matter is how well a career choice matches your values. If you value variety, **collaboration** and creativity, for example, you would not find job satisfaction in a career where you are working alone and doing the same thing every day.

The availability of jobs in a particular field should also be a factor in choosing a career. This should be considered alongside the skills and education sought in a given field. Most times, highly

competitive fields require more education but may not pay well. When there are many applicants for a particular position, unique personality traits become added benefit. However, in fields where there are fewer applicants than the positions available, the pay may be more and the job may require less education.

Nevertheless, one should not be discouraged by the scarcity of employment positions because institutions of higher learning now emphasize that they are not simply training people to get out and look for jobs. They are training people to get out and create jobs.

Therefore, the availability of job opportunities is not necessarily limited to the presence of employers. It also encompasses opportunities for self-employment which everyone is free to explore.

QUESTIONS

What has created the necessity for career counseling? **(1 mark)**

……

……

Why do you think the writer cites engineering in the passage? **(2 marks)**

……

……

……

What do you think should be the most important factor in choosing a career? Give reason for your answer**.** **(2 marks)**

……

……

……

What evidence is given in support of the statement "Money does not play a big a role in job satisfaction"? **(2 marks)**

……

……

……

Why is one's ability an important factor in career choices**?** **(2 marks)**

……

……

Identify the tone used by the writer in the passage. **(3 marks)**

……

……

……

a) The career market is full of many opportunities. (Begin: There … **)** **(1 mark)**

……

Your career does not necessarily have to be your passion. (Re-write adding a question tag)

(1 mark)

……

Make notes on factors to consider when choosing a career. **(3 marks)**

……

……

……

……

……

Explain the meaning of the following words as used in the passage. **(3 marks)**

Dearth ……..

……

Social mobility …….

……

Collaboration …….

……

QUESTION 2: EXCERPT

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

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

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

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

Basdeo: (To Mayor) The way I see it, that App will be a people's platform! And it will have **far-reaching implications** whether you launch it or not.

Mossi: (Casting a stern look at Mr. Basdeo) I need time to think about it. I will launch it at my own convenient time. (Turning to Nicole and the Principal) There are no two ways for now. **Halt** any activities regarding that thing until my office gives further guidance. (Ramdaye nods in approval. Other guests exchange knowing glances in silence)

Narine: Your Worship, the President of the Republic is scheduled to officially launch the App at the national level early next year when schools reopen. We presently have some ongoing activities in preparation for it. I doubt whether this process can be stopped.

Harvester:(Looking at the Principal and Nicole alternately) Is that so?

Mossi: (Looking at the Principal) The President?

Narine: Yes, Sir.

Ramdaye: Why have you **kept us in the dark** about it?

Narine: The Mayor's office has been duly informed, Sir.

Mossi; (Looking at Narine) Oh yes, I remember! But you never explained that kind of thing it was! No, you still have to stop it!

Pirro: I think that is beyond their powers, Your Worship.

Mossi; (Looking at Mr. Pirro) This thing we are talking about is a school project under their control! (Turning to face the principal) It is, therefore, within your powers to find a way around it. You are at the centre of it! Figure out a way, like writing to the Ministry of Education indicating that there are some fundamental errors in it that you need to attend get what I mean?

Nicole: I am afraid, Your Worship, the assessment of the innovations was done by senior officers at the Ministry of Education. Experienced software engineers Were involved. It passed all the tests, and no errors were found

QUESTIONS

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

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……

……

……

……

……

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

……

……

……

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

……

……

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

……

……

……

……

……

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

……

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

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……

……

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

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……

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

i.Far-reaching Implications ……

ii.Halt ……

iii.Kept us in the dark ……

iv.Figure out a way ……

QUESTION 3: ORAL LITERATURE

Read the following oral narrative and then answer the questions that follow. (20 marks)

Wanjiru was the most beautiful girl in all hills. She had milk-white teeth which made the men stop and look whenever Wanjiru and other girls of the hills were teasing each other about their new friends. Many young men came to ask Wanjiru hand in marriage but Wanjiru would not accept any ugly man. She said that all these young men were not handsome enough for her.

One day a young man came to **court** Wanjiru. He was very handsome indeed. And when Wanjiru heard that he had come to ask for her hand in marriage, she loved him and was only too ready to accept him. Her parents had no objection because they also admired this handsome young man. But nobody knew that this handsome young man was an ogre in disguise.

Marriage preparations went ahead. The young man brought the dowry and was given Wanjiru to take to his home. He looked very happy to have such a beautiful bride. Nobody escorted them because the young man said that it was not necessary. He did not want his identity to be discovered. They were soon home and Wanjiru was happy to see so many people around. But on a second look she found that these were not people but ogres. This made her very worried and wondered what her fate would be. Now when she was told to go inside the hut that had been prepared for her, she refused, saying that she would sit outside near the entrance because that is where brides were supposed to sit in her part of the country. Her husband gave her a stool and told her she would sit where she pleased. "I shall surely be in great trouble unless I think quickly, for these ogres will certainly want to eat me," she thought as she became more worried. All the young people she refused to marry came to her mind. "It will be a great shame when they learn that I married an ogre for his beauty". They would laugh and say that she could even marry a hyena if he was handsome enough. There was no time to lose. She had to get away from the ogre's home. She stood and took the same path that they followed from her home. And when her husband saw that she was going away, he followed singing.

Thecethecethecethece!

Where do you go now?

Thecethecethecethece!

Wanjiru come back
Not today but tomorrow I shall eat you.
Wanjiru sang loud and long
People of the nine hills
Who sold me to an ogre?
An ogre that will eat me
And my own father
You sold me to an ogre
An ogre that will eat me,
Listen to the ogre sing!

The ogre sang and the girl sang again. For a long time the two sang and sang until Wanjiru saw the ogre was very near. She climbed to the top of the tallest tree near her path. And when the Ogre saw that he could not get hold of the girl, he stood at the foot of the tree and continued with this song. Wanjiru sang even more **feverishly.** Soon however, her brother heard and recognized Wanjiru's voice. It was then he came and pierced through the back of the ogre until he was dead. Then he said to his sister. "Come down. Let us go home."

He was very angry, for they had sold Wanjiru in his absence. To be duped by an ogre into giving away Wanjiru was unforgivable. He scolded his father, "How could you and your people sell Wanjiru in my absence? I swear by my mother's clothes that neither myself nor anybody else will ever sell Wanjiru again. "Only you son who will have the authority of selling your sister again", the father responded. And so it was like that when the time for selling Wanjiru came. The tale ends there.

QUESTIONS

Identify and illustrate any two features of oral narratives evident in the above narrative. **(2 marks)**

……

……

……

……

What made men stop and look at Wanjiru and why wouldn't she accept any of them? **(2 marks)**

……

……

From the first paragraph, how would you describe the character of Wanjiru? **(2 marks)**

……

……

……

Many young men came to ask Wanjiru's hand in marriage but Wanjiru would not accept any ugly man. (Rewrite this sentence in the passive). **(2 marks)**

……

……

Give a proverb that summarizes the moral lesson learnt from this narrative. **(1 marks)**

……

……

What are the functions of the song in this narrative? **(2 mark)**

……

……

……

Give a social activity of people from which this narrative is derived. **(2 marks)**

……

……

……

'I swear by my mother's clothes that neither myself nor anybody else will ever sell Wanjiru again' (Underline the indefinite pronoun in the sentence above) **(1 mark)**

……

……

What is Wanjiru's attitude towards men? **(2 marks)**

……

……

……

Explain the meaning of the following words as used in the narrative. **(2 marks)**

Court

……

……

Feverishly

……

……

To which audience is this narrative best suited and why? **(2 marks)**

……

……

……

QUESTION 4: GRAMMAR

Rewrite the following sentences according to the instructions given. Do not change the meaning. (3 marks)

They were so exhausted that they could not stay awake. (Rewrite using "too")

……

……

It is bad manners to smoke in a crowded place. (Rewrite using a gerund)

……

"How much money do you owe me?" demanded the creditor from the debtor. (Rewrite in the passive voice)

……

……

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

The teacher …….. the errant student. (tell)

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

She looked carefully at the document but couldn't …….. what it meant. (make)

Fill in the blank spaces using the correct form of the word in brackets. (3 marks)

The criminal's …….. behavior in court angered the judge. (scandal)

The students …….. assistance from the police after the attack. (seek)

The …….. of the staff has been a matter of concern. (sober)

Insert the most appropriate prepositions in the blank space. (3 marks)

Traffic was moving …….. a snail's pace.

Please refrain …….. smoking in the auditorium.

Some people are keen …….. working in a team.

Supply the appropriate question tags in the blank spaces. (3 marks)

We needn't worry about tomorrow, ……...?

Let me have a taste, ……..?

They'll come early in the morning, ……..?

KCSE 2025 REVEALED EXAM

JOINT SERIES 1

101/3 English Paper 3

(Creative writing and Essays from the Set Texts)

Time: 2½ Hours

NAME……

SCHOOL…… **SIGN**……

INDEX NO…… **ADM NO**……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO STUDENTS

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

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

c) *Answer* ***all*** *questions in the spaces provided in* ***blue ink****.*

d) *All your questions must written in spaces provided in this paper*

e) *Students must answer all questions in* ***English***

For examiner's use only

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

For Marking Schemes Contact 0746 222 000 / 0742 999 000

*Answer **three** questions only*

1. Imaginative Composition (COMPULSORY) (20 marks)

Either

a) Write an interesting story beginning with;

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

Or

b) Write a composition supporting or opposing this statement .

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

2. Compulsory text (20 marks)

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

3. Optional texts

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

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

or

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

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

or

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

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

For Marking Schemes Contact 0746 222 000 / 0742 999 000

KCSE 2025 REVEALED EXAM

JOINT SERIES 1

102/1

KISWAHILI

KARATASI YA 1

INSHA

MUDA: SAA 1¾

JINA……

SHULE…… **SAHIHI**……

NAMBARI YA USAJILI…… **MKONDO**……

Cheti cha Kuhitimu Kisomo cha Sekondari (KCSE)

MAAGIZO

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

b) *Andika insha* ***mbili****. Insha ya* ***kwanza*** *ni ya* ***lazima.***

c) *Kisha chagua insha nyingine moja kati ya tatu zilizobakia.*

d) *Kila insha isipungue maneno* ***400***

e) *Kila insha ina alama* ***20***

f) *Kila insha* ***lazima*** *iandikwe kwa lugha ya Kiswahili.*

KWA MATUMIZI YA MTAHINI PEKEE

Swali	Upeo	Alama
1	20	
	20	
Jumla	40	

MASWALI

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

For Marking Schemes Contact 0746 222 000 / 0742 999 000

KCSE 2025 REVEALED EXAM

JOINT SERIES 1

102/2

KISWAHILI

KARATASI YA 2

LUGHA

MUDA: SAA 2½

JINA……

SHULE…… **SAHIHI**……

NAMBARI YA USAJILI…… **MKONDO**……

Cheti cha Kuhitimu Kisomo cha Sekondari (KCSE)

Maagizo

a) *Andika jina lako na nambari yako ya mtihani katika nafasi ulizoachiwa hapo juu.*

b) *Tia sahihi yako kisha uandike tarehe ya mtihani katika nafasi ulizoachiwa hapo juu.*
c) *Jibu maswali* ***yote****.*
d) *Majibu yote yaandikwe katika nafasi ulizoachiwa katika kijitabu hiki cha maswali.*
e) *Usitoe ukurasa wowote kutoka kwenye kijitabu hiki.*

KWA MATUMIZI YA MTAHINI PEKEE

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

For Marking Schemes Contact 0746 222 000 / 0742 999 000

UFAHAMU (ALAMA 15)

Shule Yangu Ya Upili

Majio yangu katika shule hii ya upili hayakutokea 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 nafasi 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 langu la shule ya kitaifa!Tulipotia ozi tu!!....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 kubomoka bila yeyote kuja kuvikarabati.Majengo yalikuwa makongwe yaliyojengwa miaka mia moja iliyopitana yalistahili kuitwa makavazi 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 yangu.Ningewezaje kughairi wazo langu baada ya siku hizo zote za maandalizi tena mbele ya wanuna walioniona kama kielelezo chao tangu walipozaliwa.Nikasajiliwa!

Sikujua shule ya upili ya kitaifa yaweza kuwa hivi.Kweli mwanafunzi aweza kukosa viatu na hatakushindwa kununua rangi ya kupaka viatu 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

mmoja wao alipoona jinsi nilivyokiangalia changu akanisihi 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 kudhihirisha 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 na kuuliza 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 changu 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

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

……

……

……

Tofautisha jinsi mwandishi alivyofunzwa katika shule ya kibinafsi na shule ya upili. **(alama 2)**

……

……

……

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

……

……

……

……

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

……

……

……

……

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

……

……

……

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

Alimstahi……

Kughairi…….

Kunighasi…….....

SEHEMU B: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 kila 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 ulio chini 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 waliyopewa kwa manufaa ya raia.Tume ya maadili na 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.Ni kupitia 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. (alama8,1 yamtiririko)

Matayarisho

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Jibu

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(b)Fupisha aya mbili za mwisho kwa maneno70. (alama7, 1 ya mtiririko)

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Jibu

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SEHEMU C: SARUFI NA MATUMIZI YA LUGHA (ALAMA 40)

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

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

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

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

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

Kivumishi

……

Kielezi

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

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

Ingieni darasani mara moja ili niwape zoezi ambalo ni rahisi.

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

Mzee huyu mkongwe alicheka kijinga huku akila haraka haraka.

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

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

Kimani aliukata mti kwa kisu jana asubuhi.

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

Karani: Njoo nikutume kwa baba yangu.

Kamau: Sitaki kupita njia ya kwa babu.

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

Anza: Wadudu

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

Mtego ulimnasa ndovu huyo.

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

Ingawa alitia bidii masomoni,alifeli mtihani.

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

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

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

Waswahili husema chema chajiuza kibaya chajitembeza.

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

Ja

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

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

Mfa maji

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<u>SEHEMU D: ISIMU JAMII (ALAMA 10)</u>

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.

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

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

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For Marking Schemes Contact 0746 222 000 / 0742 999 000

KCSE 2025 REVEALED EXAM

JOINT SERIES 1

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

Kwa Matumizi ya Mtahini Pekee

Swali	Upeo	Alama
1	20	
	20	
	20	
	20	

For Marking Schemes Contact 0746 222 000 / 0742 999 000

KCSE 2025 MOKASA MOCK EXAM

(MOI GIRLS-KABARAK-SACHO SERIES 2)

102/3

KISWAHILI

KARATASI YA 3-FASIHI

MUDA: SAA 2½

JINA……

SHULE…… SAHIHI……

NAMBARI YA USAJILI…… MKONDO……

Cheti cha Kuhitimu Kisomo cha Sekondari (KCSE)

Maagizo

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

(ii) *Jibu maswali manne pekee.*

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

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

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

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

Kwa matumizi ya mtahini pekee

SWALI	UPEO	ALAMA
1	20	
	20	
	20	
	20	
JUMLA	80	

1. SEHEMU YA A: USHAIRI

Soma shairi lifuatalo kisha ujibu maswali yanayofuata.

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

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

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

Maswali

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

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

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

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

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

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

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

Jibu swali la 2au la 3

2. Soma dondoo lifuatalo kisha ujibu maswali yanayofuata:

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

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

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

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

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

AU

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

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

Jibu swali la 4 au la 5

4.Soma dondoo kisha ujibu maswali yanayofuta ;

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

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

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

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

AU

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

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

Jibu swali la 6 au la 7

6.Soma dondoo kisha ujibu maswali yanayofuata.

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

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

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

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

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

AU

7. Kimyakimya analikariri;

Mteule nimechoka ,kila siku kusikiya,

Vyereje nchi hakika,visanga kupindukiya,

*Tunazidi filisika ,**<u>walaji kujijaziya</u>***

Msiba kujitakia, kweli hauna kiliyo.

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

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

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

SEHEMU YA E :FASIHI SIMULIZI

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

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

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

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KCSE 2025 REVEALED

JOINT SERIES 1

443/1 **Agriculture** Paper 1

Time: 2 Hours

NAME.....

SCHOOL..... **SIGN**.....

INDEX NO..... **ADM NO**.....

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

- *Write your name and index number in the spaces provided above.*
- *The paper consists of **three** sections A , B and C.*
- *Answer all questions in section A and B in the spaces provided*
- *Answer **any two** questions from section C in the spaces provided*

FOR EXAMINER'S USE ONLY

ection	Question	Maximum score	Candidate's score
A	1–15	30	
B	16	20	
	17		
	18		
	19		
C	20-22	40	
	TOTAL	90	

SECTION A (30 marks)

1. State **four** reasons why agriculture is important to Kenya's economy. **(2 marks)**

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2. State **four** ways in which mulching conserves water. **(2 marks)**

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3. State **four** ways in which trees improve soil productivity. **(2 marks)**

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4. What is meant by the term integrated pest management? **(2 marks)**

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5. State **four** factors that influence soil formation. **(2 marks)**

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6. State **four** causes of crop diseases. **(2 marks)**

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7. State **four** ways in which a land title deed is important to a farmer. **(2 marks)**

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8. Give **four** agents of soil erosion. **(2 marks)**

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9. Give **four** reasons for intercropping in crop production **(2 marks)**

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10. State **four** characteristics of extensive farming system. **(2 marks)**

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11. Outline **four** minimum tillage practices **(2 marks)**

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12. Give **four** reasons why burning of land is discouraged. **(2 marks)**

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13. State **four** functions of Young Farmers Club **(2 marks)**

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14. Distinguish between a perfect and an imperfect market. **(1 mark)**

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15. State the meaning of the following terms as used in crop production.

(a) Crop rotation. **(1 mark)**

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(b) Pruning. **(1 mark)**

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(c) Rogueing. **(1 mark)**

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SECTION B (20 marks)

16. A farmer has a piece of land on which he can grow maize, cabbages and beans.

The expected yields and selling prices of the three crops are shown below.

Crop	Yield (kg)	Selling prices (ksh/kg)
Maize	4000	40
Cabbages	2800	60
Beans	3000	80

If the cost of producing any of the three crops is the same.

(a) Which crop should the farmer grow? Show your working. **(2 marks)**

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(b) (i) State the farmer's opportunity cost. **(1 mark)**

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

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(c) Give a reason why farmers always have to make a choice on the enterprise to implement on the farm. **(1 mark)**

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17. A famer is advised to apply 60kg N, 20kg P_2O_5 and 30kg K_2O per hectare. Calculate the quantity of urea (46%N), single super phosphate (20%P_2O_5) and muriate of potash (50% K_2O) the farmer should apply on his 10 hectares land. **(5 marks)**

18. Below is a diagram showing a crop disease.



(a) Identify the crop disease. **(1 mark)**

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(b) State **three** control measures for the crop disease. **(3 marks)**

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(c) Name the category in which the crop disease is classified. **(1 mark)**

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19. The diagram below illustrates a nursery practice.



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

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Describe the procedure followed in carrying out the practice illustrated. **(2 marks)**

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State **two** advantages of the practice illustrated above in crop production. **(2 marks)**

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SECTION C (40 marks)

20 (a) Describe **seven** harmful effects of crop pests. **(7 marks)**

Describe **eight** safety measures a farmer should observe when using herbicides to control weeds. **(8 marks)**

Describe the harvesting of coffee. **(5 marks)**

21(a) Explain **five** factors that can increase the demand for tea on a market. **(10 marks)**

(b) State **four** ways of improving labour productivity on the farm **(4 marks)**

(c) The following information was obtained from Upendo Farm inventory on 1st January 2013.

ITEM	VALUE(Ksh)	
Layers		80,000
Beef cattle		240,000
Beans in store		40,000
Cash at hand		15,000
Land		550,000
Machinery		250,000
Buildings		310,000
Calves		75,000

On the same day the farm recorded the following;

ITEM	VALUE(Ksh)	
Wages payable		5,000
Interest payable		8,000
Bank loan		725,000
Milk sales on credit		12,000
Chicken sales on credit		6,000
Cash in bank		52,000
Purchase of fertilizer on credit		26,000
Taxes payable		3,000

Using the information provided prepare a balance sheet for Upendo Farm. **(6 marks)**

22. (a) Describe the field management practices for tomatoes. **(10 marks)**

(b) Explain ways in which the Kenyan Government can improve maize production to ensure food security in the country. **(10 marks)**

KCSE 2025 REVEALED

JOINT SERIES 1

443/2 **Agriculture** Paper 2

Time: 2 Hours

NAME.....

SCHOOL..... **SIGN**.....

INDEX NO..... **ADM NO**.....

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

- *Write your name and index number in the spaces provided above.*
- *The paper consists of **three** sections A , B and C.*
- *Answer all questions in section A and B in the spaces provided*
- *Answer **any two** questions from section C in the spaces provided*

FOR EXAMINER'S USE ONLY

ection	Question	Maximum score	Candidate's score
A	1–16	30	
B	17	20	
	18		
	19		
	20		
C	21-23	40	
	TOTAL	90	

SECTION A (30 MARKS)

Answer all the questions in this section in the spaces provided

1. Name **four** beef breeds of cattle. **(2 marks)**

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2. State **four** observations on the behavior of chicks which would indicate that the temperature in the brooder is too high. **(2 marks)**

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3. Give **four** practices carried out on fish before preservation. **(2 marks)**

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4. Outline **four** reasons for steaming up a gestating cow. **(2 marks)**

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5. List **four** factors considered when selecting eggs for marketing. **(2 marks)**

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6. Give **four** disorders associated with calcium deficiency in livestock **(2marks)**

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7. State **four** advantages of carrying out raddling in sheep management. **(2 marks)**

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8. Give a reason why ruminant animals are able to digest grass. **(1 mark)**

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9. Give the difference in meaning of the following terms as used in livestock.

(a)Quarantine and Isolation **(1 mark)**

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(b)Zoonotic and notifiable diseases **(1 mark)**

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10. List **four** effects of ticks on livestock bodies. **(2marks)**

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11. State **four** factors that influence selection of construction materials. **(2 marks)**

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12. Name **thre**e farm implements operated by the tractor's P.T.O shaft. **(1 1/2 marks)**

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13. State **four** reasons for debeaking in poultry production. **(2 marks)**

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14. Name **three** breeding diseases controlled through the use of artificial insemination.

(1 1/2 marks)

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15. Give **four** characteristics of a good vaccine. **(2 marks)**

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16. State **four** advantages of Kenya top bar hive in bee keeping. **(2 marks)**

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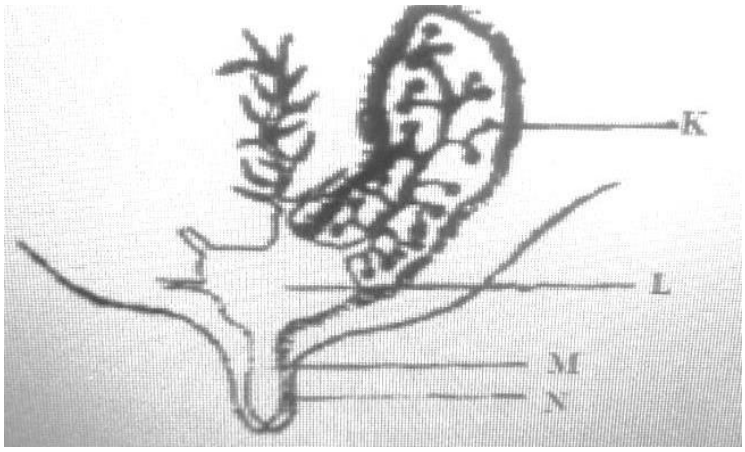
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SECTION B (20 MARKS)

17. The diagram below shows the udder of a cow. Use it to answer the questions that follow.



a) Name parts L and M. **(2 marks)**

L -

M-

b) State the hormone responsible for milk let down. **(1 mark)**

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c) Define dry cow therapy. **(1 mark)**

……

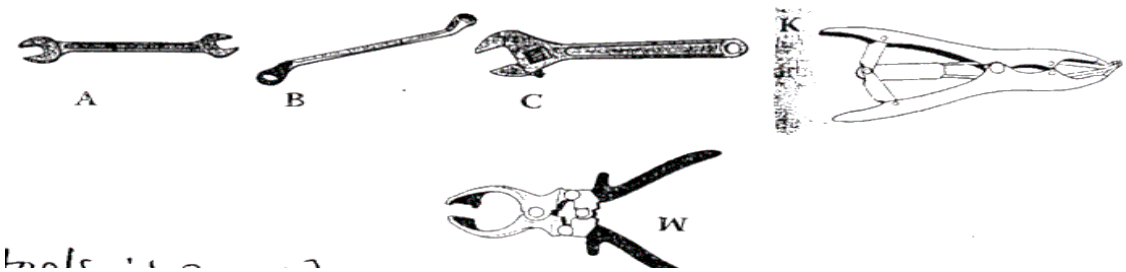
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d) Why milking should be done quickly and evenly. **(1 mark)**

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18. The diagrams below show some farm tools. Study them and answer the questions that follow.



Name the tools. **(2 marks)**

A-

B-

C-

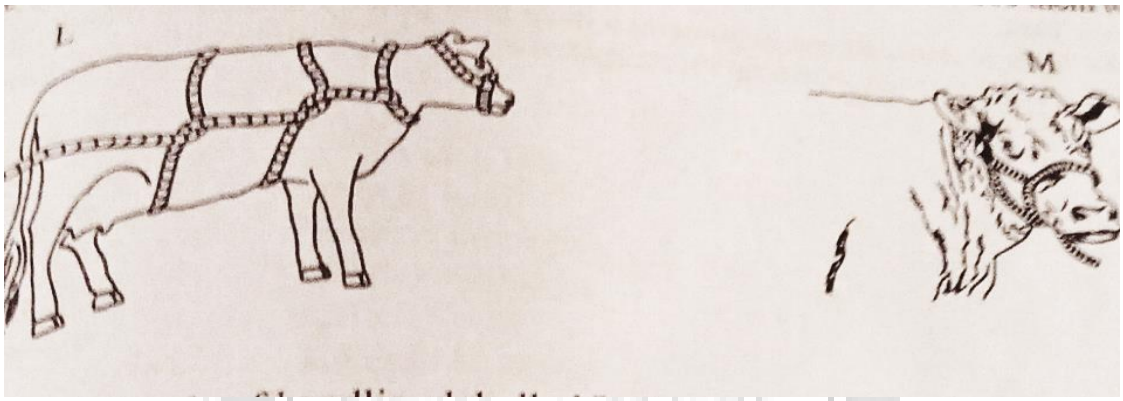
W-

State the functional differences between tools K and W. **(1mark)**

What advantage does C have over A and B? **(1 mark)**

d). State one common maintenance practice carried out tool C and W. **(1mark)**

19. The diagram below shows two methods of handling livestock in the farm. Study them and answer the questions that follow.



a) Identify the methods of handling livestock labelled L and M. **(1 mark)**

L.....

M.....

b) Give **two** occasions when it may be necessary to carry out the practice labelled L above. **(2 marks)**

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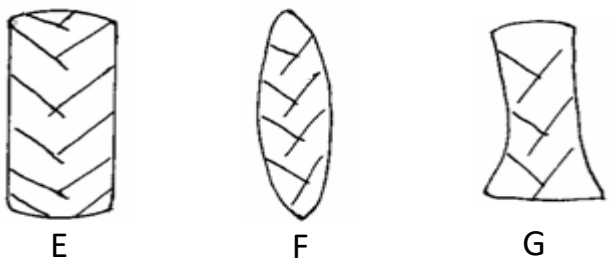
……

c) Give **two** animal conditions under which method L above cannot be used. **(2 marks)**

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20. The diagram **below** represents conditions of the tyre.



Which diagram represents the correct pressure in a tractor tyre? **(1 mark)**

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(b)Identify the mistakes with the other two tyres. **(2 marks)**

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Give the correct measures taken for each tyre mentioned in **(b) above**. **(2 marks)**

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SECTION C (40 MARKS)

Answer any two questions in this section

21.a) Explain **<u>five</u>** factors that affect milk composition in dairy farming. **(5 marks)**

b) State five signs of parturition in cattle **(5marks)**

c) State five maintenance practices of a fish pond **(5marks)**

d) Explain five factors considered when selecting livestock for breeding **(5marks)**

22.a)Describe the management of a sow during parturition. **(10 marks)**

b) Describe the lifecycle of a three host tick. **(7 marks)**

c) Outline **<u>three</u>** effects of endo-parasites to the host animals **(3marks)**

23. a) Describe a blue tick (*Boophilus decolaratus*) under the following sub-headings.

i) Diseases transmitted. **(2marks)**

ii) Preferred site of attachment. **(3marks)**

iii) Non-chemical control measures. **(5marks)**

b) Discuss mastitis disease under the following sub-headings:

i) Predisposing factors. **(5marks)**

ii) Control and treatment. **(5marks**

KCSE 2025 REVEALED

JOINT SERIES 1

565/1 **Business Studies** 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

For Marking Schemes Contact 0746 222 000 / 0742 999 000

1) Outline **four** commercial services that are useful to a manufacturer **(4 Marks)**

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2) Kamau operates a shop in a farming area. State **four** ways in which the farm community can benefit from the business activity **(4 Marks)**

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3) State **four** sources of energy that are naturally available in Kenya but not fully exploited **(4 Marks)**

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4) Outline **four** ways in which the utility of a commodity is increased **(4 Marks)**

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5) Outline **four** reasons why production in the subsistence sector is usually low **(4 Marks)**

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6) Use the cash book below to state the transactions that took place on 2nd, 5th and 7th of May 2010.

Date	Details	Folio	Cash (shs)	Banks (shs)	Date	Details	Folio	Cash (shs)	Banks (shs)
1-May	Bal		100,000	250,000	2-May	Creditors			30,000
					3-May	Rent		4,000	
5-May	Bank	c_1	20,000		5-May	Cash	c_1		20,000
7-May	James			11,000	6-May	Drawing		12,000	
					8-May	Bal	c/d	104,000	211,000
			120,000	261,000				120,000	261,000
8-May	Bal	b/d	104,000	211,000					

Transaction;

2nd --

_____

_____

5th –

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6th –

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7th –

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7) State **four** errors that do not affect the agreement of a trial balance **(4 Marks)**

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8) Highlight the reasons that have made the use of credit cards (plastic money) popular as means of payment **(4 Marks)**

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9) Give **four** malpractices against which consumers may need protection **(4 Marks)**

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10) During a trader's workshop, a speaker presented a speech on ethical issues in business. Highlight some ethical issues that he may have raised, affecting business **(4 Marks)**

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11) List the **four** documents that should be prepared during the formation of a joint stock company **(4 Marks)**

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12) State **four** expenses that are incurred in the process of distribution of goods **(4 Marks)**

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13) Given below are transactions to Buda traders for each of the transactions, indicate in the column below the account to be debited and the account to be credited **(4 Marks)**

	Transaction	DR	CR
(i)	Paid salaries in cash		
(ii)	Withdraw cash from bank for office use		
(iii)	Paid telephone bill by cheque		
(iv)	Purchased office equipment on credit from Eldoret Holdings		

14) Highlight **four** ways in which Kenya is likely to benefit from preparing a proper development plan **(4 Marks)**

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15) Highlight **four** principles of government expenditure **(4 Marks)**

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16) The following information was extracted from the books of Kiambu traders

	Ksh.
Opening stock	160,000
Closing stock	200,000
Purchases	1,800,000
Margin	20%

Calculate Kiambu trader's sales **(4 Marks)**

17) Apart from the price mechanism, state other ways in which prices of goods and services are determined **(4 Marks)**

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18) State the **four** forms of economic integration **(4 Marks)**

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19) State the type of insurance/assurance cover Mshamba should take in the following circumstances.

	Circumstance	**Type of Policy**
(i)	To cover against theft of his property at home	
(ii)	To take a short period cover in case one is participating in motor car rally	
(iii)	To cover loss of cash or goods through theft by any of his employees	
(iv)	To cover damage to his/her car, property in the car and damage to other vehicles	

20) Outline **four** assumptions that would make a two-sector economy to hold (**4 Marks)**

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21) Outline **four** causes of unemployment in Kenya today **(4 Marks)**

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22) State the journal that deals with each of the following types of transaction **(4 Marks)**

	Types of transaction	**Journal**
(i)	Sale of fixed asset on credit	
(i)	Correction of errors	
(i)	Credit purchases	
(i)	Return of goods by customers	

23) Highlight **four** factors a trader may consider when determining the appropriate means of transport **(4 Marks)**

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24) Outline **four** qualities of a good sales person **(4 Marks)**

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25) Give **four** reasons why firms choose to remain small in an economy dominated by large firms **(4 Marks)**

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KCSE 2025 REVEALED

JOINT SERIES 1

565/2 **Business Studies** 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		

For Marking Schemes Contact 0746 222 000 / 0742 999 000

QUESTIONS

1. (a) Explain **Five** factors that hinders entrepreneurial practices in Kenya today. **(10mks)**

(b) Outline **Five** differences between a public corporation and a private limited company**.** **(10mks)**

2. (a) The following Trial balance was extracted from the books of laikipia Traders on 30th may 2023.

LAIKIPIA TRADERS

Trial Balance

As at 30th May 2023

Name of Account	Dr (Shs)	Cr (Shs)
Sales and purchases	21,000	221,000
Returns	4,000	8,000
Carriage inwards	3,500	
Carriage outwards	4,200	
Stock (1/05/2023)	10,000	
Discount	7,000	9,600
Electricity	4,500	
Wages	8,600	
Premises	300,000	
Debtors and Creditors	13,500	40,500
Cash at bank	47,800	
Capital		145,000
Returns		
	424,100	424,100

Additional information:

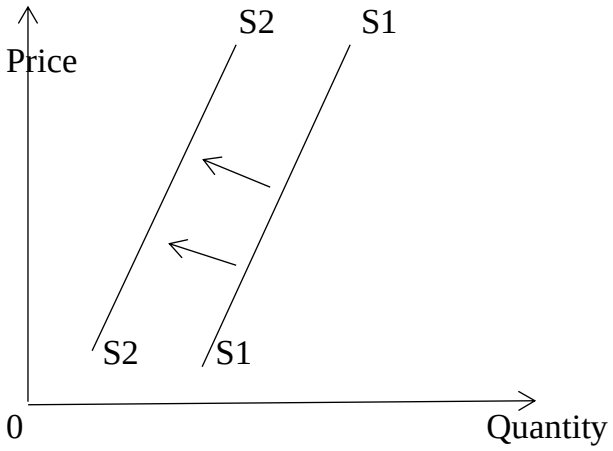
Closing stock was valued at shs 7,000.

Prepare : i) Trading, profit and loss Account for the year ending 30th may 2023**.** **(8mks)**

(ii) balance sheet as at 30th may 2023.

(b) Highlight **four** documents that are sent to the seller by the buyer in home trade. **(8mks)**

3. (a) The diagram given below shows changes in the supply curve.



Explain **five** factors that may have led to the change from S1S1 to S2S**2. (10 mks)**

(b) Explain **five** functions of commercial banks. **(10mks)**

4. (a) Explain **five** limitations of using billboards as medium of advertising**. (10mks)**

(b) Explain **<u>five</u>** significance of warehousing to the consumers. **(10mks)**

5. (a) The following balances were extracted from **KIVU MERCHANTS** books of accounts on January 2017;

Motor vehicles	250, 000
Furniture	8, 000
Stock	37, 000
Debtors	20, 000
Cash at bank	15, 000
Cash in hand	5,500
ADC loan	100, 000
Creditors	12, 000
Capital	224, 000

The following transactions took place during the month.

January 1 deposited an additional shs.30, 000 from private sources into the business bank account.

January 5 issued a cheque for shs. 8, 000 to ADC bank which was honoured by the bank.

" 10 sold goods whose cost was shs.3, 500 at shs.7, 000 and received the proceeds by the cheque.

" 15 bought a new motor vehicle worth shs.50, 000 having borrowed an additional loan from ADC bank.

" 17 took goods worth shs. 1,200 to be used by his family.

" 20 sold one of the old motorvehicles whose book value was shs.27, 000 at shs. 22,000 on credit.
" 25 received cash shs.15, 000 from a debtor.
" 29 paid a creditor by cheque shs.8, 500
" 30 bought more goods on credit worth shs. 3,200

Required: Prepare **KIVU MERCHANT'S** balance sheet as at 30th April 2017. **(10mks)**

(b) Outline **five** reasons why mobile phones (cell phones) have become popular means of communication. **(10mks)**

6 (a) Explain **five** negative effects of inflation**.** **(10mks)**

(b) Explain **five** reasons why a country may experience balance of payments disequilibrium. **(10mks)**

KCSE 2025 REVEALED

JOINT SERIES 1

231/1 **Biology** 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 class in the spaces provided above.*

b) *Append your signature and write the date of examination in the spaces provided above.*

c) *Spelling errors especially of* ***biological*** *terms shall be penalized*

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

e) *Candidates should answer the questions in English*

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

FOR EXAMINERS USE ONLY

QUESTIONS	MAXIMUM SCORE	CANDIDIATES SCORE
1 -29	80	

For Marking Schemes Contact 0746 222 000 / 0742 999 000

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

1) A young scientist observed a bird laying her eggs in a nest and later the eggs hatched into chicks. Name two characteristics shown by the chicks that show a chick is a living thing but an egg is not. **(2mks)**

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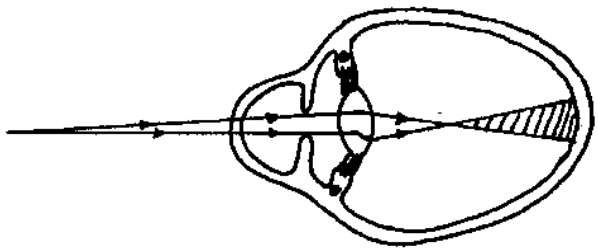
2) In which two ways are the organelles chloroplast and mitochondria similar. **(2mrks)**

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3) The illustration below shows a human eye that is defective.



(a) Identify the eye defect. **(1mrk)**

……

(b) How would this defect be corrected? **(1mrk)**

……

……

4) (a) What is homeostasis? **(1mrk)**

……

……

(b) State three processes in humans in which homeostasis is involved. **(3mrks)**

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5)

(a) In which phase of photosynthesis are carbohydrates formed? **(1mrk)**

……

(b) How is the dark stage of photosynthesis dependent to light stage? **(2mrks).**

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6) Why are the cooling fans of value even in a closed room? **(2mrks)**

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7) How can the colour of the skin affect the rate of heat loss or heat gain? **3mrks)**

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8) List down three abiotic factors that would influence life in a lake. **(3mrks)**

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9) Distinguish between the terms asexual and sexual reproduction **(2mrks)**

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10)(a) Define the term germination. **(1mrk)**

……

……

(b) state the two types of germination in plants. **(2mrks)**

……

……

(c) when does growth start in plants. **(1mrk)**

……

……

11) What is polyploidy. **(1mrk)**

Mating a horse with a donkey produces an infertile animal, a mule. Explain. **(2mrks)**

……

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12)A part of DNA strand has the following base sequence: G-G-C-C-T-A-T-C.

(a) what is the sequence of the complimentary strand? **(1mrk)**

……

what will be the sequence of m-RNA transcribed from this part of DNA? **(1mtk)**

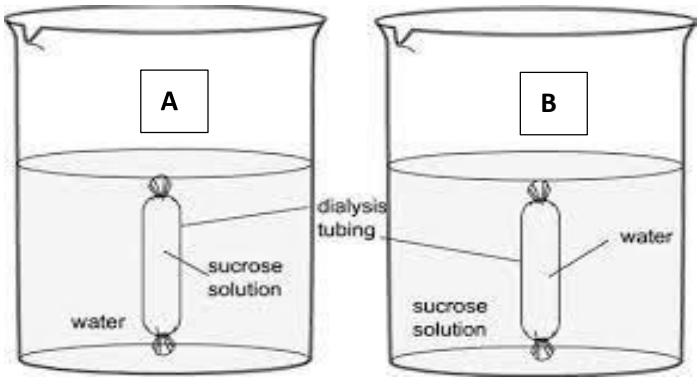
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How does DNA differ from RNA**?** **(3mrks)**

DNA	**RNA**

13)A student made a set up shown below to study a physiological process



In which beaker did the dialysis tubing reduce in size? **(1mrk)**

……

Account for your answer in a) above**.** **(2mrks)**

……

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14) Give two reasons why lumbar vertebrae have long and broad transverse processes. **(2mrks)**

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15) Give two ways in which seed dormancy benefit a plant**.** **(2mrks)**

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16) State three precautions one should observe while conducting experiments in food test.

(3mrks)

……

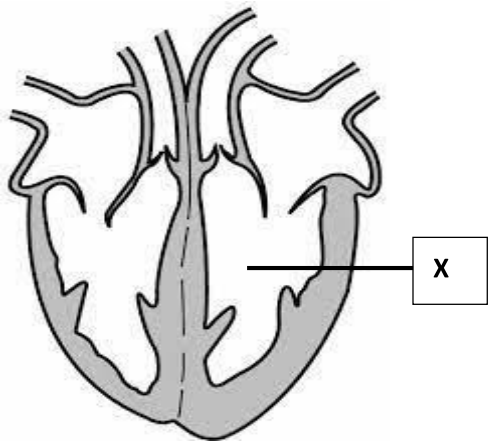
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17) Use the diagram of the heart shown below to answer the questions that follow



From the diagram, give a reason to show that **X** is the left ventricle. **(1mrk)**

……

……

Name a class of organisms where all members have the heart structure above **(1mrk)**

……

Why are the muscles found in the heart above said to be myogenic**?** **(1mrk)**

……

……

18) State the role of the following in the nitrogen cycle**.** **(2mrks)**

Thiobacillus denitrificans.

……

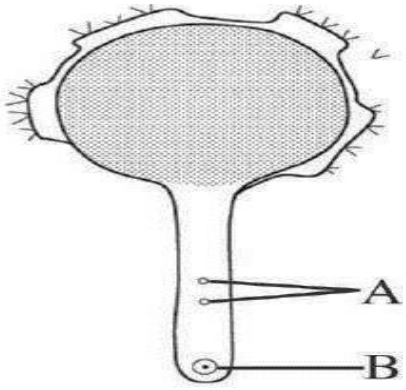
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Nitrococcus bacteria.

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19) The diagram below shows the structure of germinating pollen grain



Name the type of cell division that formed the parts labelled A. **(1mrk)**

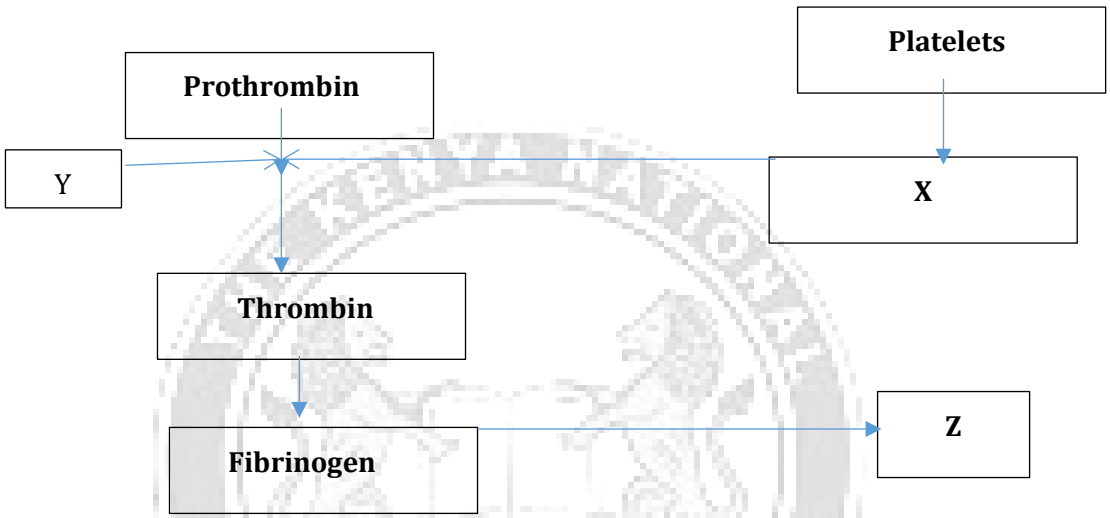
……

State the role of part labelled B**?** **(1mrk)**

……

……

20) The chart below is a summary of blood clotting mechanism in a man.



Name;

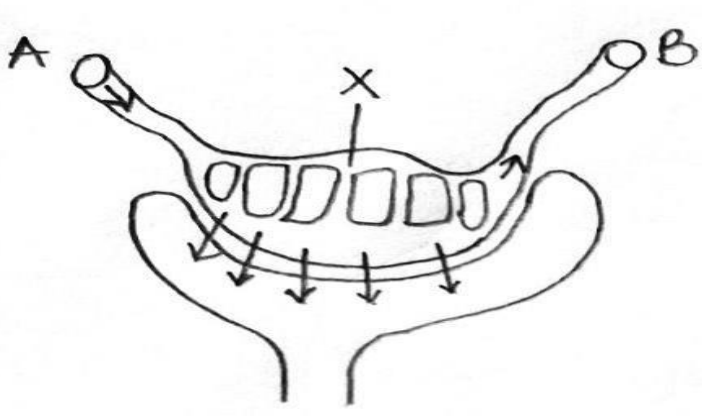
The metal ion represented by Y. **(1mk)**

……

The end product of the mechanism represented by Z. **(1mk)**

……

21)1The following is part of a kidney nephron



22)i) Name the process represented by the arrows. **(1mrk)**

……

ii) Name the conditions necessary for the process named in (a) (i) above to take place. **(1mrk)**

……

……

Identify with a reason vessel A. **(1mrk)**

……

……

Name any two blood components that are present in vessel (A) but are absent in vessel B. **(2mrks)**

23) State the function of the following during pregnancy. **(3mrks)**

Amnion

……

……

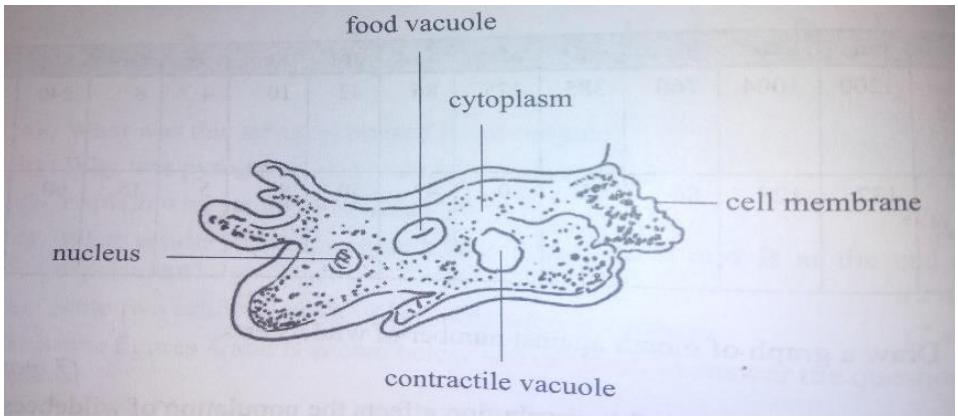
Amniotic fluid

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Umbilical cord

24) Below is a diagram of an organism.



Name the kingdom to which the organism belongs. **(1mrk)**

……

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

……

Explain the process by which the food gets into the organism. **(2mrks)**

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25) State two characteristics features of members of division bryophyte. **(2mrks)**

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26) i) Name the cartilage between the bones of the vertebral column **(1mrk)**

ii) State the function of the cartilage named in (a)(i) above. **(1 mark)**

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27) Why do herbivores have large eyes on the side of their heads? **(1mrk)**

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28) Suggest three measures that can be taken to control infection of man by protozoan parasites. **(3mks)**

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29) In a family, all off springs have blood group AB. What are the possible blood groups of? the parents? **(1mrk)**

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30) List the changes that take place during inhalation in the breathing cycle of a mammal in the following: **(3mrks)**

Rib cage thoracic cavity

(b) Diaphragm

External intercostal muscles

31) Evolution is an ongoing process, state two pieces of evidence which suggest that evolution is still taking place. **(2mrks)**

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For Marking Schemes Contact 0746 222 000 / 0742 999 000

KCSE 2025 REVEALED

JOINT SERIES 1

231/2 **Biology** Paper 2

Time: 2 Hours

NAME.....

SCHOOL..... **SIGN**.....

INDEX NO..... **ADM NO**.....

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

- *Write your name and index number in the spaces provided above.*
- *Sign and write the date of examination in the spaces provided.*
- *Question **six** is compulsory.*
- *Choose either question 7 or 8*

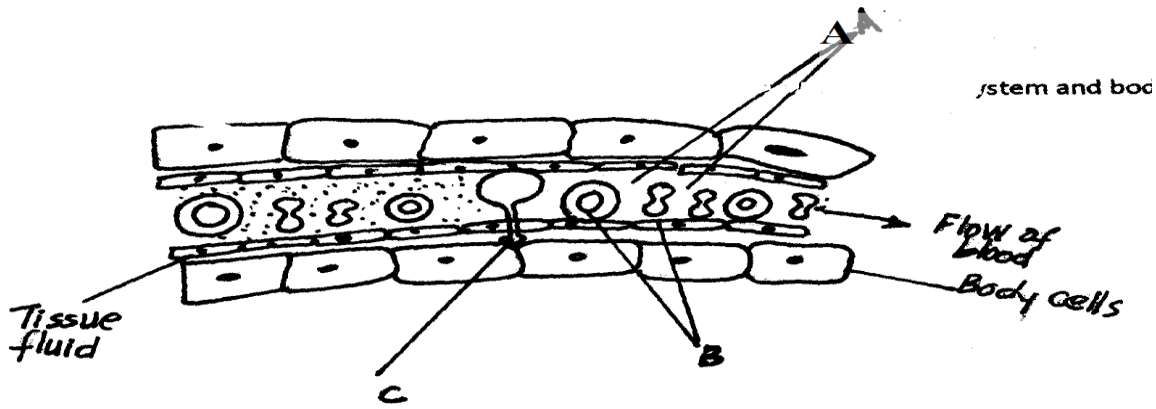
FOR EXAMINER'S USE ONLY

QUESTION NUMBER	QUESTION	MAXIMUM SCORE	SCORE
SECTION A	1-5	40	
SECTION B	6	20	
	7	20	
	8	20	
TOTALSCORE		**80**	

For Marking Schemes Contact 0746 222 000 / 0742 999 000

QUESTIONS

1. The diagram below shows the exchange site between circulatory system and body cells.



a) State **two** adaptations of the capillaries. **(2mks)**

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b) (i) Name the blood cells labeled B. **(1mk)**

……

(ii) State the gas that diffuses from B to the tissue cells. **(1mk)**

……

c) State **two** functions of the part labeled A. **(2mks)**

……

……

d) Name the blood vessel with the highest concentration of;

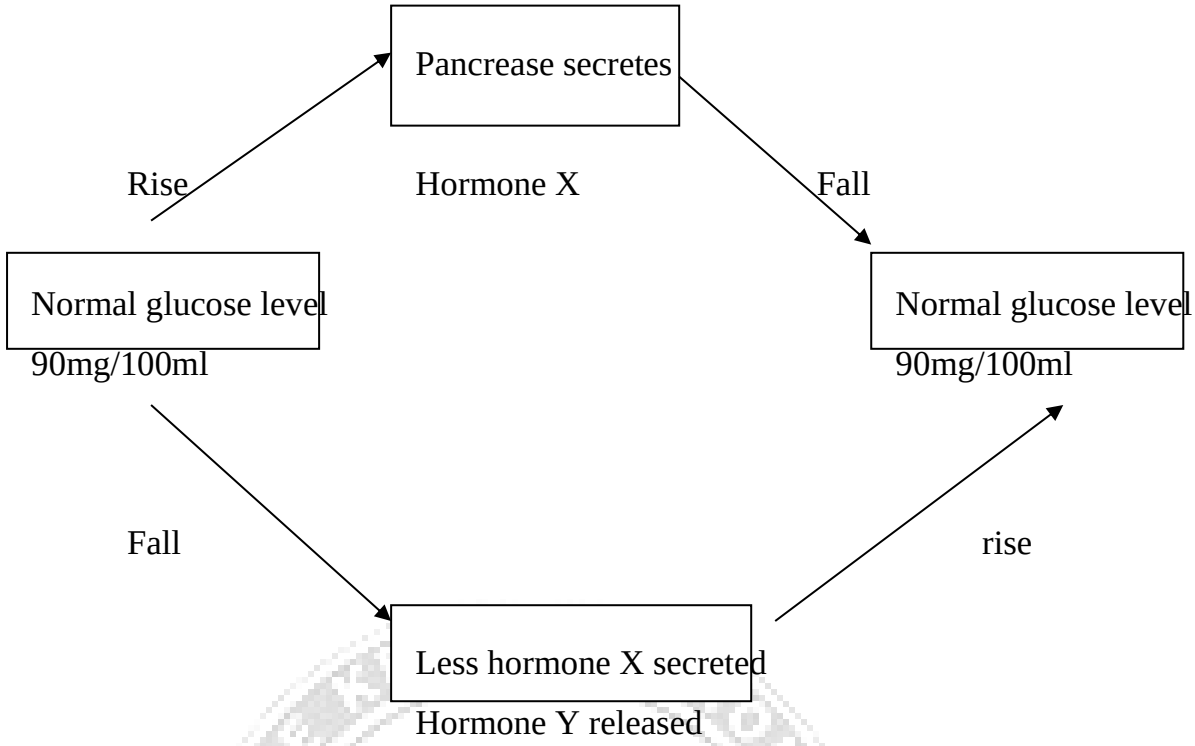
Oxygen. **(1mk)**

……

Urea. **(1mk)**

……

2. The diagram below shows how blood glucose in mammalian body is regulated.



(a) Name the hormone X and Y **(2mks)**

X _____

Y _____

(b) State two ways by which hormone X lowers glucose level in the blood when it rises above 90mg/100ml **(2mks)**

……

……

……

(c) Name the organ that produces hormone Y **(1mk)**

……

(d) Suppose there is deficiency of hormone X, state the disease the person would suffer from **(1mk)**

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(e) Explain how the disease mentioned in (d) above can be controlled. **(2mks)**

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3. In human beings, a downward pointed frontal hairline ("windows peak") is a heritable trait. A person with windows peak always has at least one parent who has his trait; whereas persons with frontal hairline may occur in families in which one or even both parents have windows peak. Using B and b to symbolize genes for this trait.

a) Determination the f1 generation if a homozygous windows peak male parent is married to a Homozygous frontal hairline female parent. **(4mks)**

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b) State two causes of variations. **(2mks)**

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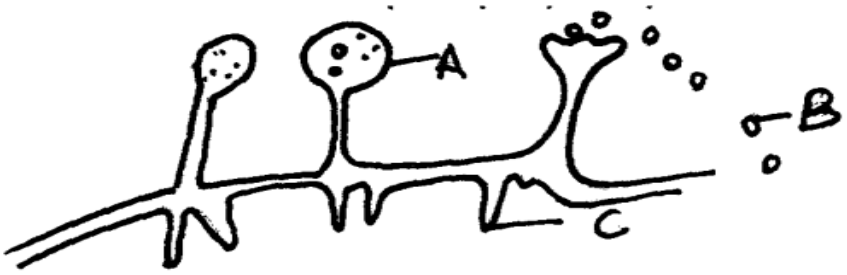
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c) Name two examples of discontinuous variation. (**2mks)**

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4. The drawing below represents a mature bread mould (rhizopus).Study it and answer the questions which follow.



a) Name the structures labeled A, B and C. **(3mks)**

A.....

B .....

C.....

b) Identify the type of asexual reproduction represented in the diagram **(1mk)**

.....

c) Give one function of structure C. **(1mk)**

.....

d) Define the term fertilization. **(1mk)**

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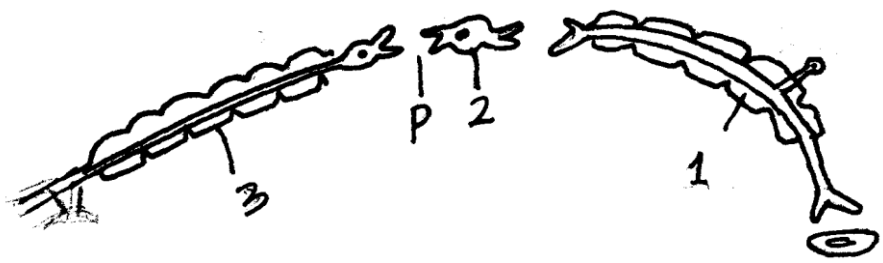
e) Compare an ovum cell and a zygote. **(2mks)**

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5. The diagram below shows three different types of neurons along a reflex.



a) Identify the neuron labeled 1, 2 and 3 **(3mks)**

1.....

2.....

3.....

b) Using arrow show the direction of impulse transmission on the diagram. **(1mks)**

c) Name the part of the spinal cord where the cell bodies of neuron 2 and 3 are located. **(1mk)**

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d) Describe the transmission impulses across the part labeled P. **(3mks)**

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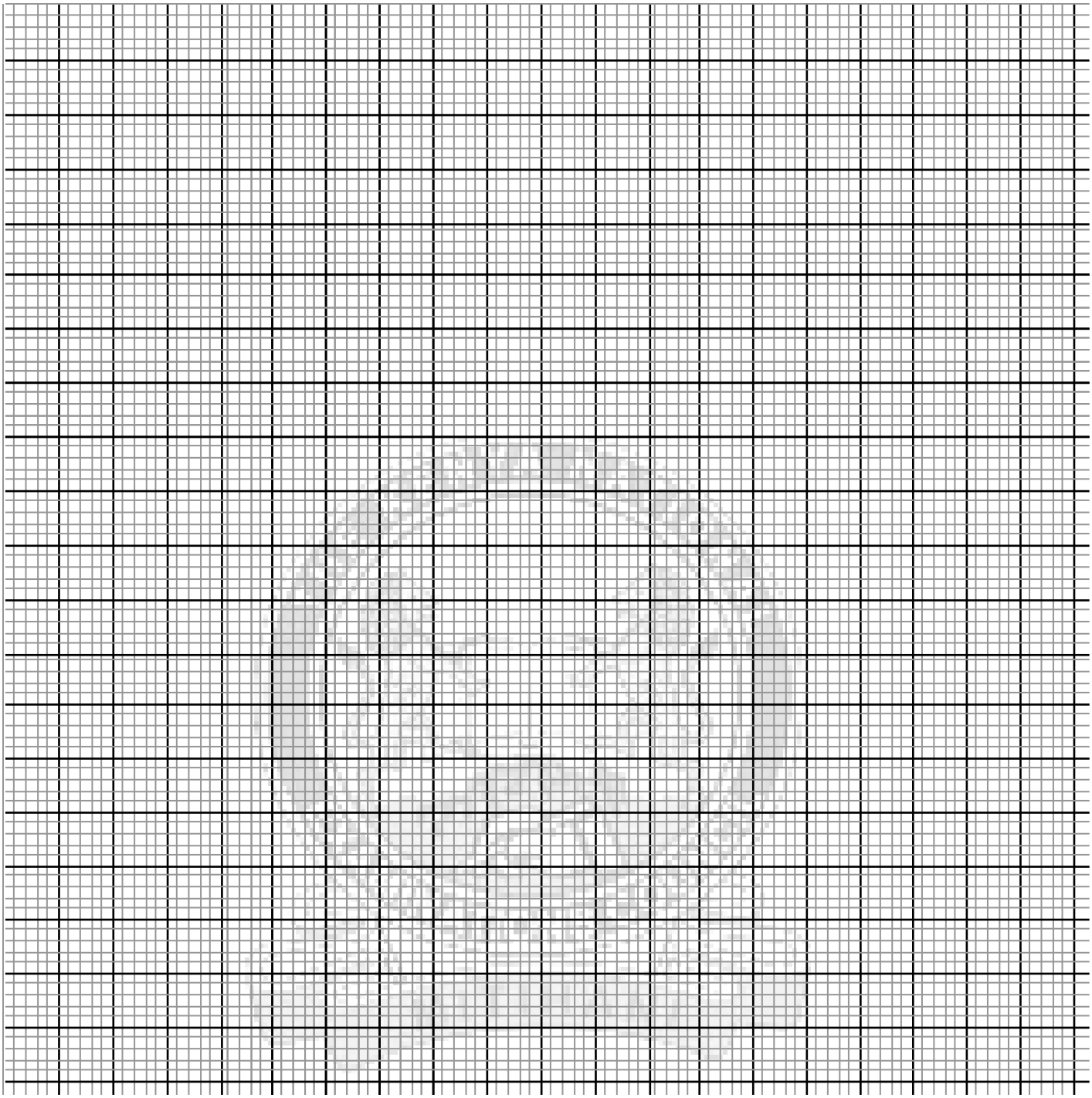
SECTION B

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

6. During germination and growth of a cereal, the dry weight of endosperm, the embryo and the total dry weight were determined at two day intervals. The results are shown in the table below:

he after planting (day	weight of endosperm (m	weight of embryo (m	tal dry weight (mg
0	43	2	45
2	40	2	42
4	33	7	40
6	20	17	37
8	10	25	35
10	6	33	39

a) Using the same axes, draw graphs of dry weight of endosperm, embryo and the total dry weight against time. **(7marks)**



b) What was the total dry weight on day 5 **(1mark)**

……

……

c) Account for

i. Decrease in dry weight of endosperm from 0 to 10 **(2marks)**

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ii. Increase in dry weight of embryo from day 0 to day 10 **(2marks)**

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iii. Decrease in total dry weight from day 0 to day 8 **(1mark)**

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iv. Increase in total dry weight after day 8 **(1mark)**

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d) State two factors within the seed and two outside the seed that cause dormancy

i. Within the seed. **(2marks)**

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ii. Outside the seed **(2marks)**

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……

e) Give two characteristics of meristematic cells **(2marks)**

……

……

……

7. Explain how <u>abiotic</u> factors affect plants. **(20marks)**

8. (a) Discuss eye accommodation. **(10mks)**

(**b)** Discuss the process of hearing in man. **(10mks)**

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KCSE 2025 REVEALED

JOINT SERIES 1

231/3 **Biology** Paper 3

Time: 1¾ Hours

SCHOOL..... **SIGN**.....

Kenya Certificate of Secondary Education.

CONFIDENTIAL

EACH CANDIDATE SHOULD HAVE;

- ***a)*** *An Orange fruit*
- ***b)*** *Scalpel*
- ***c)*** *Small beaker*
- ***d)*** *Straw*
- ***e)*** *2 test tubes*
- ***f)*** *Measuring cylinder*
- ***g)*** *Dropper*
- ***h)*** *ACCES TO;*
- ***i)*** *DCPIP SOLUTION*
- ***j)*** *BENEDICT'S SOLUTION*
- ***k)*** *LIME WATER*
- ***l)*** *CLEAR COLOURED PHOTOGRAPHS*

For Marking Schemes Contact 0746 222 000 / 0742 999 000

KCSE 2025 REVEALED

JOINT SERIES 1

231/3 **Biology** Paper 3

(Practical)

Time: 1¾ Hours

NAME……

SCHOOL…… **SIGN**……

INDEX NO…… **ADM NO**……

Kenya Certificate of Secondary Education.

Instructions to Candidates

a) *Write your Name, Class and Adm No. in the spaces provided above*

b) *Answer ALL the questions in the spaces provided*

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

d) *Candidates should answer the questions in English*

FOR EXAMINERS USE ONLY

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1	18	
2	07	
3	15	
TOTAL	40	

For Marking Schemes Contact 0746 222 000 / 0742 999 000

1. (a) You are provided with specimen A

i) Name the fruit type that the specimen belongs to **(1mark)**

……

ii) Give a reason **(1mark)**

……

……

iii) Make a transverse section on specimen A and label the parts. **(4marks)**

iv) State the type of placentation of fruit A **(1mark)**

……

b) Squeeze out the juice from the two halves of specimen A into a small beaker. Using part of the juice and the reagents provided only, test for the food substances in the juice.

(6marks)

Reagent	Procedure	Observation	Conclusion
DCPIP			

Benedict's Solution			

c) Transfer 5ml of lime water in to a test tube. Insert a straw in the lime water in the test tube and blow air in it.

i) State the observation made (**1mark)**

ii) What was the aim of the experiment? **(1mark)**

iii) Account for the observation **(1marks)**

iv) What biological process produces the gas being tested in this experiment **(1mark)**

v) What physiological process is involved in the removal of the gas from the body.**(1mark)**

For Marking Schemes Contact 0746 222 000 / 0742 999 000

2. The photographs below were taken from a grassland ecosystem. Examine them carefully



i) Construct a food chain from the organism in the photographs above. **(1mark)**

ii) Name the trophic level occupied by the antelope giving a reason for your answer.**(2 mks)**

iii) Using observable feature only, name the class in which lion and antelope belong giving a reason. **(2 marks)**

class

……

Reason.

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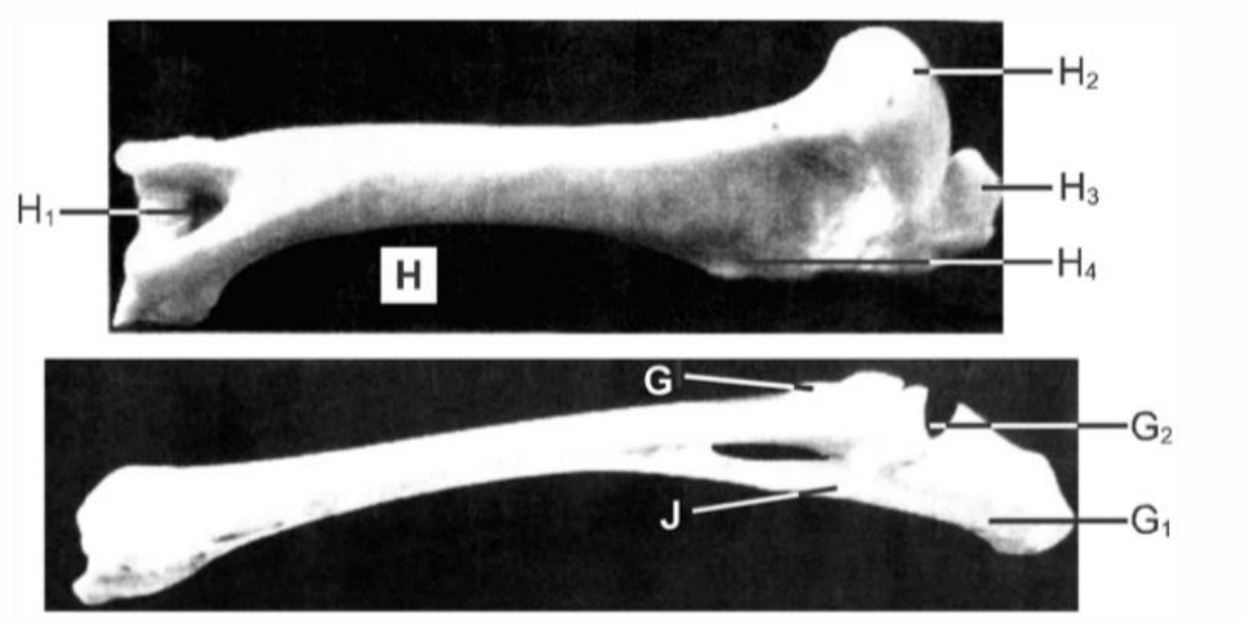
iv) With a reason, identify which of the three organisms has the highest biomass. **(2 marks)**

……

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……

3. You are provided with photographs of specimen J, G and H.



Name the specimen labelled J, H, G. **(3 marks)**

Which part of the mammalian body were these specimens obtained**.** **(1 mark)**

Name the parts labelled as G_1, G_2 and H_2. **(3 marks)**

……

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……

i) Name the type of joint formed at the proximal end of specimen H**.** **(1 mark)**

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

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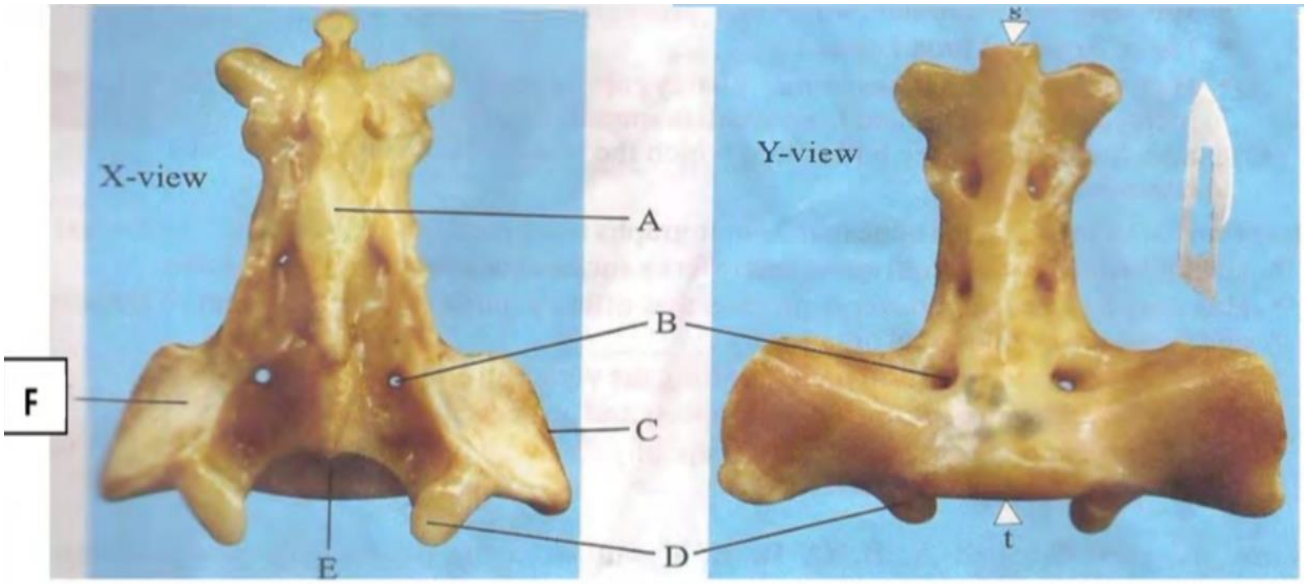
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State two functions of the part labelled G_1. **(2 marks)**

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……

The photograph below are different views of a bone obtained from a mammal. Examine them and answer the questions below.



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

Give reasons for your answer in f) (i) above. **(1 mark)**

Name the bone that articulates on the surface labelled F. **(1 mark)**

Identify the view of photograph X. **(1 mark)**

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KCSE 2025 REVEALED

JOINT SERIES 1

233/1 **Chemistry** Paper 1

Time: 2 Hours

NAME……

SCHOOL…… **SIGN**……

INDEX NO…… **ADM NO**……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES:

- *Write your **name and ADM NO** in the spaces provided above.*
- *Answer **All** the questions in the spaces provided below each question.*
- *All working **MUST** be clearly shown where necessary.*
- *Sign and write the date of examination in the spaces provided above.*
- *Electronic calculators may be used.*

FOR EXAMINER'S USE ONLY

Question	Maximum score	Candidate's score
1- 29	80	

For Marking Schemes Contact 0746 222 000 / 0742 999 000

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

1. State two laboratory rules that should be followed to avoid contamination and wastage of chemicals. **(2 marks)**

……

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2. Describe one method used to distinguish between sodium sulphate and sodium sulphite.

(2 mk

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3. A gaseous compound consists of 86% carbon and 14% hydrogen by mass. At s.t.p 3.2 dm^3 of the compound has a mass of 6 grams. Calculate:

a) Its empirical formulae (C=12,H=1, MGV=at stp 22.4dm^3 **(2 marks)**

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b) its molecular formulae **(2 marks)**

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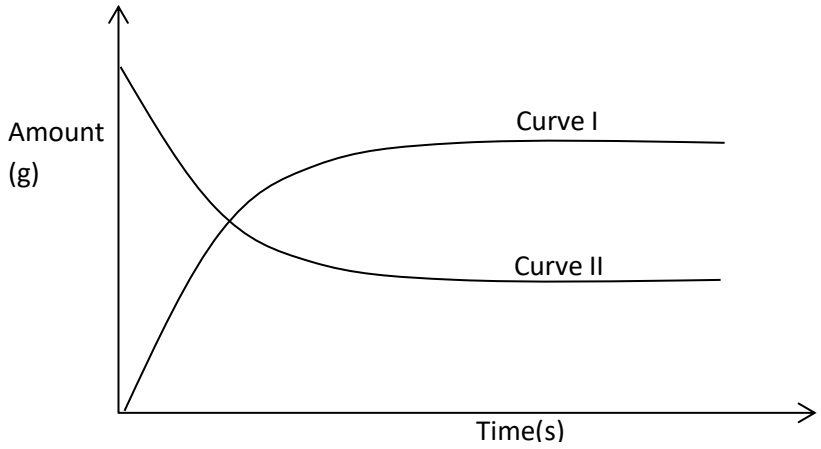
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4. The graph below shows amount of calcium carbonate and calcium chloride varying with time in the reaction.

$CaCO_3 + 2\,HCl \longrightarrow CaCl_2 + H_20 + CO_2$



a) Which curve shows amount of calcium chloride varying with time **(1 mark)**

……

b) Explain why the two curves become horizontal after given period of time **(1 mark)**

……

……

……

c) Sketch on graph curve II would appear if the experiment was repeated using more dilute hydrochloric acid solution **(1 mark)**

5. The thermal chemical equation for the reaction between X and Y are shown below.

$2X_{2\,(g)} + Y_{2(g)} \longrightarrow 2X_2Y_{(g)} \quad \Delta H = -197KJ/mol$

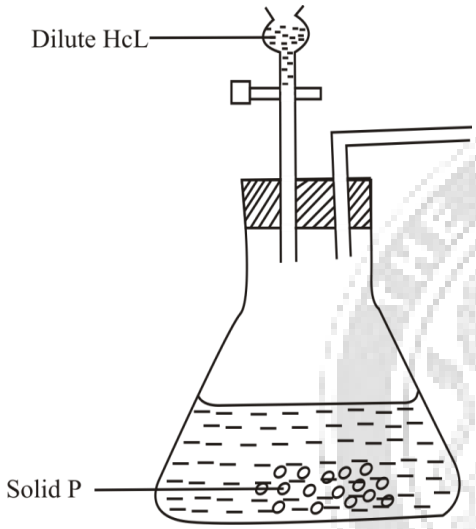
a) Other than change in temperature, suggest two ways in which yield of X_2Y can be increased **(1 mark)**

……

……

b) draw a well labeled energy level diagram for the forward reaction **(2 marks)**

6. The diagram below was used by a form two student at Kimuchul secondary school to prepare and collect dry carbon IV oxide.



a) Name suitable solid p **(1 mark)**

……

b) Complete the diagram above **(3 marks)**

7. The melting point of Nitrogen is -196^0c while that of sodium is 98^0 c. In terms of structure and bonding explain the difference in the melting point of Nitrogen and sodium **(2 marks)**

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8. The following tests were carried out on three separate portion of colourless solution P.

TEST	OBSERVATION
i)Addition of dilute hydrochloric acid the first portion of solution P	Formation of effervescence
ii)Addition of aqueous potassium sulphate solution to the second port of solution P	No white precipitate
iii)Addition of acqueous sodium hydroxide to the third portion to portion of solution P till in excess	White precipitate formed which dissolved in excess to form colorless solution

a) From information in test(i),name two anions that are likely to be present in solution P**(1 mk)**

……

b) Identify cations that are likely to be present in solution P **(1 mark)**

……

c) Write an ionic equation for the reaction which takes place in test (i) **(1 mark)**

……

……

9. Describe how you would prepare crystals of potassium sulphate starting with 100cm^3 of 0.5M Potassium hydroxide **(3 marks)**

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……

10. use dot(.) and cross(x) diagram to show bonding in magnesium fluoride (Mg=12 , F=9) **(1 mark)**

11. An element R has a relative atomic mass 88. When a current of 0.5A were passed through fused chloride of R for 32 minutes and 10 seconds, 0.44g of R were deposited at cathode. Determine charge of ion Q (I F– 96500C) **(3 marks)**

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12. a) Define the term isomerism **(1 mark)**

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……

b. Draw and name two positional isomers of butanol **(2 marks)**

13. During the extraction copper and zinc from their ores, some processes include:

a) Crushing **(1 mark)**

……

……

b) Mixing of the crushed one with oil and water and bubbling air through it.

i) Name the process (b) above **(1 mark)**

……

ii) What is the purpose of(b) above **(1 mark)**

……

……

14. Write an equation when the following compounds are heated

a) zinc nitrate **(1 mark)**

……

b) silver nitrate **(1 mark)**

……

15. The table below gives solubilities of potassium bromide and potassium sulphate at 0^0c and 40^0c.

	Solubility g/100g H_2O at	
	0^0c	40^0c
Potassium bromide	55	75
Potassium sulphate	10	12

When an aqueous mixture containing 60g of potassium bromide and 7g of potassium sulphate in 100g of water at 40^0c was cooled to 0^0c some crystals were formed.

a) identify the crystal **(1 mark)**

……

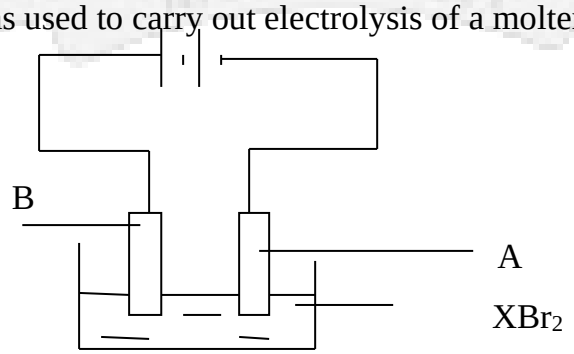
b) Determine the mass of the crystal **(1 mark)**

……

……

……

16. The set up below was used to carry out electrolysis of a molten bromide of metal X,XBr_2.



a) write equations for reaction taking place at:

i) Anode : …… **(1 mark)**

ii) Cathode …… **(1 mark)**

b) Give reason why experiment should be carried out in fume chamber (**1 mark)**

……

……

17. below are the standard electrode for electrodes X and Y

$X^{2+}_{(aq)}$ + 2e _____ X(s) -2.92 V

$Y^{2+}_{(aq)}$ + 2e _____ Y(s) + 0.34 V

a) Identify the electrode which is the least reducing agent **(1 mark)**

……

b) calculate the e.m.f of the cell formed when the two electrodes are connected **(2 marks)**

……

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c) write cell representation for the cell above **(1 mark)**

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18. a) Give two differences between a nuclear reaction and a chemical reaction **(2 marks)**

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b. complete the nuclear equation below **(1 mark)**

$$^{230}_{90}Th \longrightarrow {}^{230}_{92}Pa + \ldots\ldots\ldots\ldots\ldots\ldots$$

19. Explain why the boiling point of ethanol is higher than that of hexane (R.m.m of ethanol 46 while that of hexane is 86. **(2 marks)**

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20. The atomic number of element Q is 8 and that of P is 11.

a) Write down the formulae of compound formed between Q and P **(1 mark)**

……

b) Name the type of bond formed by compound given in (a) above .Explain. **(2 marks)**

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21. a) State charles' law **(1 mark)**

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b. sketch a graph to represent Charles law **(1 mark)**

c. A gas occupied a volume of $250cm^3$ at -23^0c and atmosphere. Determine volume at $107\ ^0c$ when pressure kept constant. **(2 marks)**

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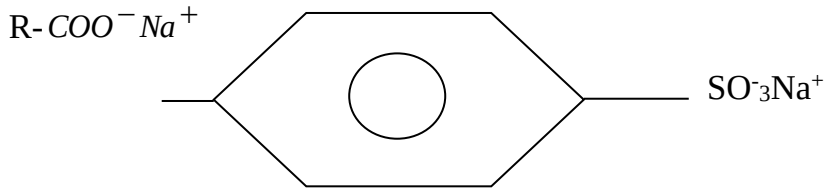
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22. The structures shown below represent two cleansing agent A and B.

A **B**



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(a) Name the type of cleansing agent **A** **(1 mark)**

……

(b) Which of the **two** cleansing agents is more suitable for washing in water containing calcium chloride? Give a reason. **(2 marks)**

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23. a) Define the term enthalpy of formation of a compound. **(1 mark)**

……

……

b)Use the information below to answer the questions that follow:

	Equation		**Enthalpy of formation**
(i)	$H_{2(g)} + ½\ O_{2(g)}$	$\longrightarrow$ $H_2O_{(l)}$	$\Delta H_1 = -286 kJmol^{-1}$
(ii)	$C_{(s)} + O_{2(g)}$	$\longrightarrow$ $CO_{2(g)}$	$\Delta H_2 = -394 kJmol^{-1}$
(iii)	$2C_{(s)} + 3H_{2(g)} + ½\ O_{2(g)}$	$\longrightarrow$ $C_2H_5OH_{(l)}$	$\Delta H_3 = -277 kJmol^{-}$

Calculate the molar enthalpy of combustion of ethanol. Given that:

$C_2H_5OH_{(l)} + 3O_{2(g)} \longrightarrow 2CO_{2(g)} + 3H_2O_{(l)}$ **(3mks)**

……

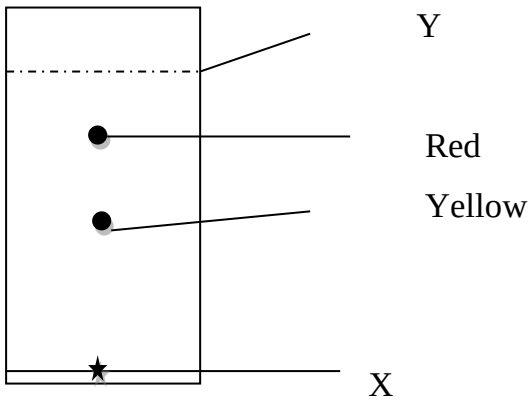
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24. The chromatogram below shows the constituents of a flower extract. Study it and answer the questions that follow



a) Explain the different positions of red and yellow pigments. **(2 marks)**

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b) Describe how the solid yellow pigment can be obtained in the chromatogram **(2 marks)**

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25. When excess chlorine gas is bubbled through cold dilute sodium hydroxide solution, the resulting solution acts as a bleaching agent.

(a) Write an equation for the reaction between chlorine gas and sodium hydroxide solution.

(1 mark)

……

(b) Explain how the resulting solution acts as a bleaching agent. **(2 marks)**

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26. The table below gives some properties of four substances. Study it and answer the questions that follow:

Substance	M.P ^{0}C	B.P ^{0} C	Electrical Conductivity	
			Solid	Liquid
W	1723	2230	Poor	Good
X	993	1695	Poor	Poor
Y	- 183	- 164	Poor	Poor
Z	1083	2567	Good	Good

(a) Which substance is suitable for making cooking pans? Explain. **($1\frac{1}{2}$ marks)**

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(b) Which substance is likely to have a giant atomic structure? Explain. **($1\frac{1}{2}$ marks)**

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27. 17g of Zinc carbonate was reacted with 50 cm^3 of 4M nitric acid .Calculate the mass of Zinc Carbonate that remained unreacted. (Zn = 65, C = 12, O = 16) **(3 marks)**

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28. A certain element Z forms an ion of type Z^{3-}. If the element is in period 3.

(a) Write the electronic configuration of Z^{3-}. **(1 mark)**

……

(b) How do the sizes of Z and Z^{3-} compare. Explain your answer. **(2 marks)**

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29.A sample of copper turnings was found to have contaminated with copper II oxide .

Describe how a sample of copper metal can be separated from the mixture. **(2 marks)**

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KCSE 2025 REVEALED

JOINT SERIES 1

233/2 **Chemistry** Paper 2

Time: 2 Hours

NAME……

SCHOOL…… **SIGN**……

INDEX NO…… **ADM NO**……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

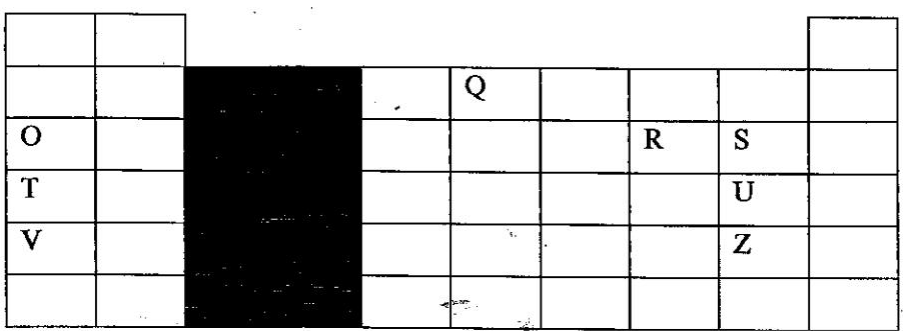
1. *Write your name and index number in the spaces provided above*
3. *Answer all the questions in the spaces provided*
4. *All working* ***must*** *be clearly shown where necessary.*
5. ***Candidates should check to ascertain that each page s printed as indicated and that no question is/are missing.***

FOR EXAMINER'S USE ONLY

Question	Maximum score	Candidate's score
1	11	
2	9	
3	12	
4	9	
5	10	
6	10	
7	10	
8	9	
TAL	80	

For Marking Schemes Contact 0746 222 000 / 0742 999 000

1. (a) The grid below represents part of the periodic table. Study it and answer the questions that follow. The letters do not represent the actual symbols of the elements.



Which element will require the least amount of energy to remove one of the outermost electrons? **(1mk)**

……

ii. Select the most reactive non- metal. **(1mk)**

……

iii. Which of the elements has the greatest tendency of forming covalent? Explain **(2mks)**

……

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i

What name is given to the family of elements to which elements **O**, **T** and **V** belong?**(1mk)**

……

v An element **W** has atomic number 15. Indicate the position of **W** on the grid. **(1mk)**

……

v

Explain why the atomic radius of **S** is smaller than that of **R**. **(1mks)**

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vi. Explain why the atomic radius of **Z** is smaller than its ionic radius. **(1mk)**

……

……

……

(b) Study the information given in the table below and answer question that follow.

Formula of compound	NaCl	MgCl2	AlCl3	SiCl4	PCl5	SCl2
Boiling point ^{0}C	1470	1420	Sublimes at 180^{0}C	60	75	60
Melting point ^{0}C	800	710		-70	-90	-80

Give **two** chlorides that are liquids at room temperature. Give a reason for your answer. **(2mks)**

……

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Give a possible reason why AlCl3 has much lower boiling point than MgCl2 although both Aluminum and Magnesium are metals. **(1mks)**

……

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2. The table below gives standard reduction potentials for some half cells.

Half-cell	**Half-cell equation**	**V**
I	$Cr^{3+}(aq) + e^- \rightarrow Cr^{2+}(aq)$	-0.41
II	$Cd^{2+}(aq) + 2e^- \rightarrow Cd(s)$	-0.4
III	$Na^+(aq) + e^- \rightarrow Na(s)$	-2.71
IV	$Cu^{2+}(aq) + 2e^- \rightarrow Cu(s)$	0.34
V	$Pb^{2+}(aq) + 2e^- \rightarrow Pb(s)$	-0.13
VI	$Br2(aq) + 2e^- \rightarrow 2Br^-(aq)$	1.07
VII	$2H^+(aq) + 2e^- \rightarrow H2(g)$	0
VIII	$Fe^{2+}(aq) + 2e^- \rightarrow Fe(s)$	-0.44V
IX	$O2(g) + 2H2O(l) + 4e^- \rightarrow 4OH^-(aq)$	+0.40V
X	$H2O2(aq) + 2H^+(aq) + 2e^- \rightarrow 2H2O(l)$	+1.23V

For Marking Schemes Contact 0746 222 000 / 0742 999 000

(i) Identify with reasons**: (2mks)**

I. The strongest oxidizing agent.

……

……

II. The strongest reducing agent.

……

……

ii) Draw an electrochemical cell from half-cells **V** and **IV. (3mks)**

Write the equation and calculate the electromotive force for the electrochemical cell constructed from half-cells **V** and **IV.** **(2 marks)**

……

……

Explain why it is not advisable to use aqueous sodium sulphate as the salt bridge in the electrochemical cell formed between half-cells **V** and **IV. (1mark)**

Write the cell notation for an electrochemical cell made using half-cells **V** and **VI**. **(1 mark)**

……

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……

3. a) Draw the structures of the following compounds.**(2mks)**

2 – methylbut-2-ene

heptanoic acid

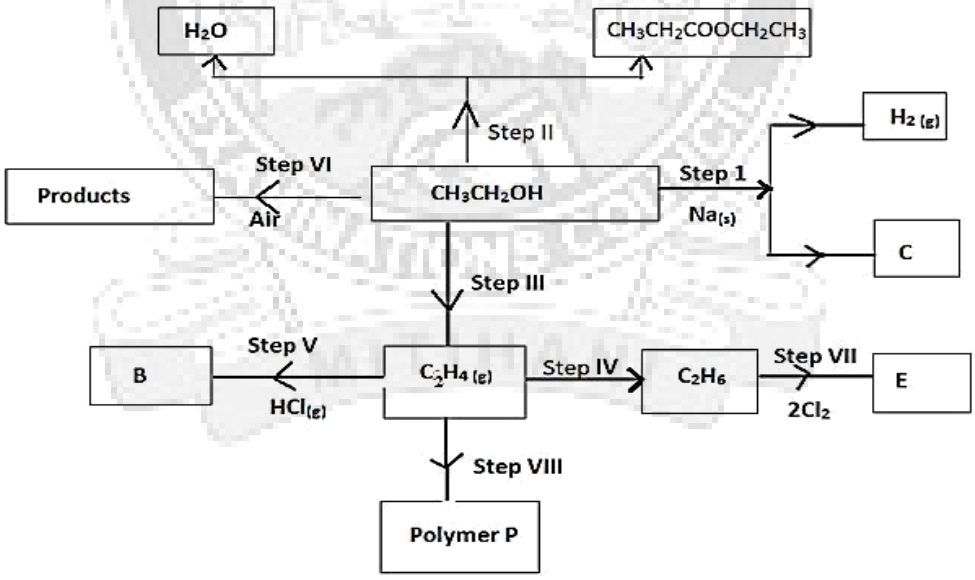
b) Describe a physical test that can be used to distinguish between ethanol and ethene**(2mks)**

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c) Use the flow chart below to answer the questions that follow.



i) Name

I. The type of reaction that occurs in step VII. **(1mk)**

……

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……

II. Substance B (1mk)

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.....

What conditions and reagents are necessary to convert CH3CH2OH to CH3CH2COOCH2CH3 in step II

Conditions **(1mk)**

.....

.....

Reagent **(1mk)**

.....

.....

iii) Give the formula and name of substance C. **(1mk)**

.....

.....

iv) Give the reagent and conditions necessary for the reaction in step IV. **(2mks)**

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v) i)Draw and name the structure of polymer P. **(1mk)**

ii) Name one use of the polymer P. **(1mk)**

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4. Several students prepared hydrogen gas using different reagent

Student 1: Used Zinc granules and dil. Nitric (V) acid

Student 2: Used Zinc granules and dilute sulphuric acid and a catalyst.

Student 3. Used calcium and dilute sulphuric(VI) acid.

Student 4: Used copper and dilute hydrochloric acid.

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(a) State and explain the observation made in the set-ups for;

(i) Student 2. **(1mk)**

……

……

(ii) Student 3 **(2mks)**

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(b) Explain why no hydrogen was collect for set ups of student;

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

……

……

(ii) 4 **(1mk)**

……

……

(c) Name the catalyst used by student 2. **(1 mk)**

……

……

(d) Write the equation for the reaction that took place in the set-up for student 2.

(1mk)

……

……

(e) Explain why group 1 metals are not used to prepare hydrogen gas in the laboratory.

(1mk)

……

……

(f) State two uses of hydrogen gas. (1 mk)

……

……

(a). In an experiment to determine the heat of combustion of ethanol the following data was collected.

Volume of water = $450cm^3$

Initial temperatures of water = 25^oc Final temperature of water = 46.5^oc

Mass of ethanol + lamp before heating = 125.5g

Mass of ethanol + lamp after heating = 124.0

Calculate:

(i). Heat evolved during the experiment (Density of water = $1g/cm^3$, specific heat capacity of water

= $4.2kJ/kg^{-1}k^{-1}$.**(2 marks)**

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(ii). Molar heat of combustion of ethanol**. (2mks)**

(C=12,O=16,H=1).

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(b). Write the thermochemical equation for the complete combustion of ethanol. **(1 mark)**

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……

The molar heat of combustion obtained from an experiment like the one above is usually lower than the theoretical value. Explain. **(2 marks)**

……

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(d). The molar heat of combustion of hydrogen is given as -286Kj/mol^{-2}

(i). Write the thermochemical equation for the reaction. **(1 mark)**

……

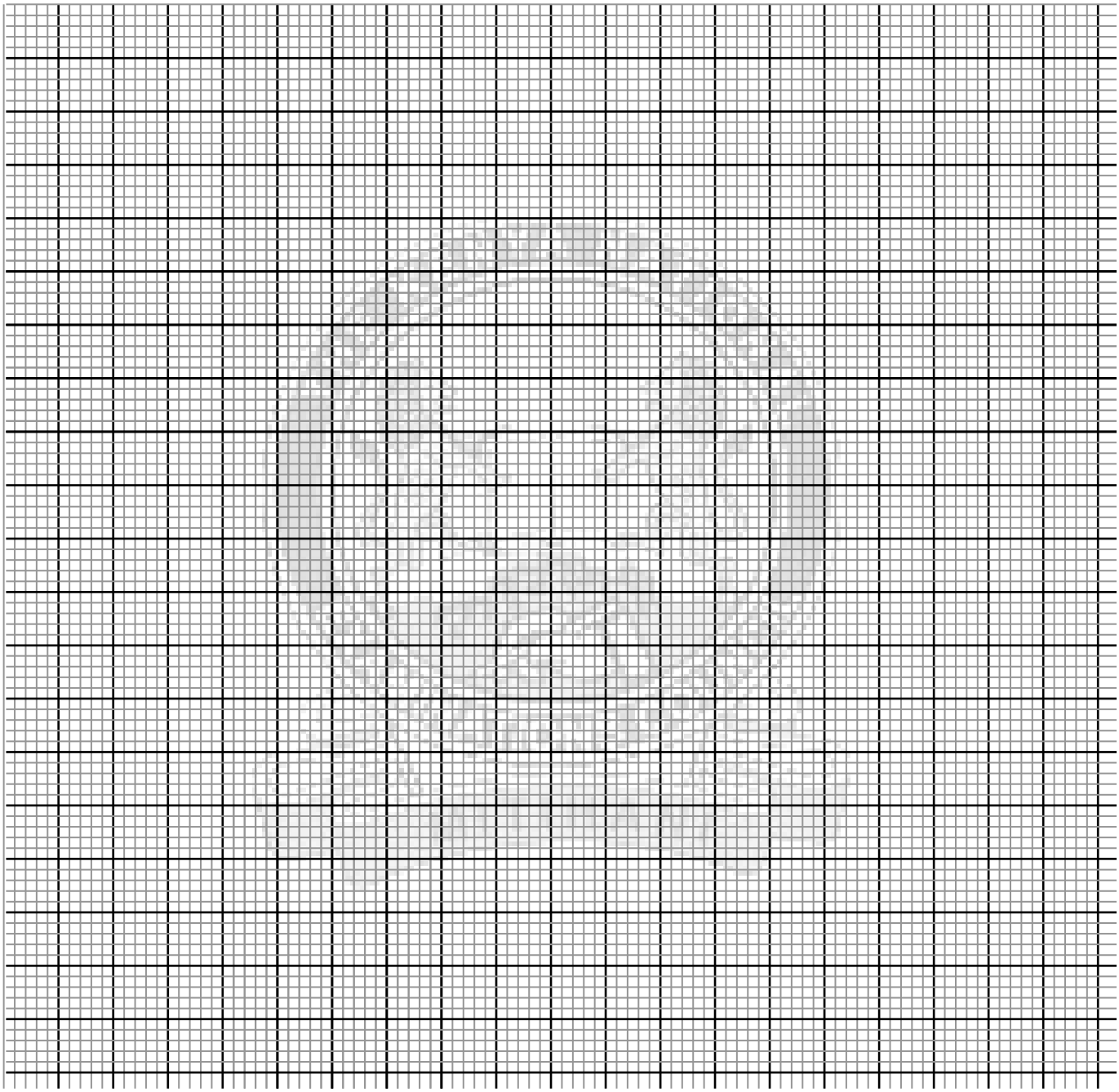
(ii). Draw an energy level diagram for the reaction in d (i) above.**(2 marks)**

6. In an experiment to determine the solubility of potassium chlorate, the following results were obtained.

Total volume of water added (cm^3)	10	20	30	40	50
Mass of potassium chlorate (g)	5	5	5	5	5
Temperature at which crystals appear (^oc)	80	65	55	45	30
Solubility of potassium chlorate (g/100 H2O)					

(a)Complete the table to show the solubility of potassium chlorate at different temperatures. (3 marks)

(b). Plot a graph of mass of potassium chlorate per 100g water against temperature at which crystals from. **(3 marks)**



(c). From the graph, determine:

(i). the solubility of potassium chlorate at 40^{o}C. **(1 mark)**

.....

.....

(ii). The temperature at which the solubility of potassium chlorate is 35g/100g water. **(1 mark)**

.....

(d). Explain the shape of the graph. **(1 mark)**

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(c). State one application of solubility and solubility curves. **(1 mark)**

.....

.....

In the preparation of Copper carbonate, copper was burnt in air and the product collected.

Dilute sulphuric acid was added and the mixture filtered and cooled. Sodium carbonate was added to the filtrate and the content filtered. The residue was washed and dried to give a green powder.

a) Give the chemical name of the product formed when copper burns in air **(1mk)**

……

b) Write a chemical equation for the formation of product. **(1mk)**

……

c) (i) Name filtrate collected after sodium carbonate was added **(1mk)**

……

(ii) Name the green powder. **(1mk**)

……

d) Write chemical equation for the reaction between product in (a) and acid. (1mk)

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e) Write an ionic equation to show the formation of the green powder **(1mk)**

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f) Write an equation to show what happened when green powder is strongly heated. **(1mk)**

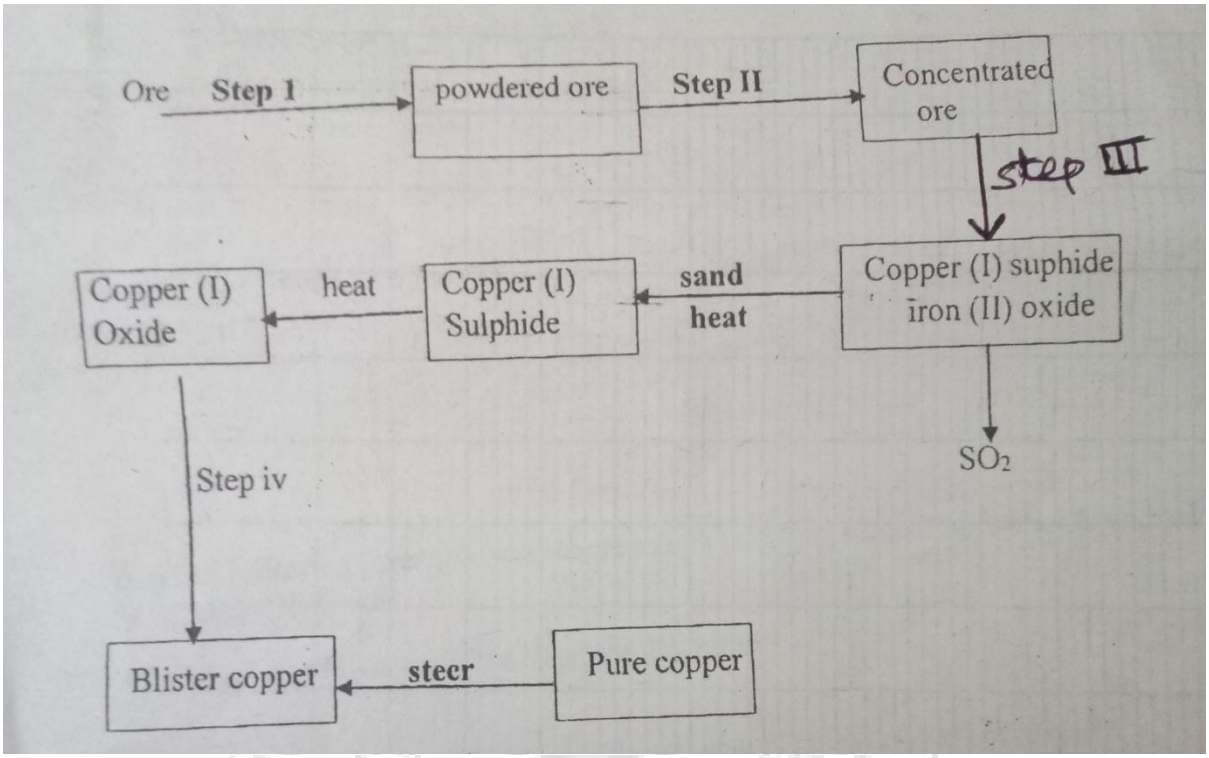
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(g) Using a diagram, describe how a salt can be obtained from the filtrate in c(i) above.

(3mks)

8. The diagram below is a flow chart for the extraction of copper. Study it and answer the question that follow.



a) Give the name and formula of the major ore from which copper is extracted. (1mk)

……

……

……

b) Give the name of the process carried out in step II and III. (1mk)

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c) Write equation for the reactions taking place in step III and IV**.** **(2mks)**

……

……

d) Iron (ii) oxide is an impurity during extraction of copper. Write the equation for the reaction to show how it is removed**.** **(1mk)**

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e) i) Draw a well labelled diagram to show blister copper is purified to form pure copper. **(2mks)**

ii) Write the ionic equation for the anode and cathode reaction during purification of copper. **(2 mks)**

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KCSE 2025 REVEALED EXAM

JOINT SERIES 1

233/3 **Chemistry** Paper 3

Time: 2¼ Hours

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CHEMISTRY CONFIDENTIAL

In addition to fillings found in each candidate must have the following

1. 60cm^3 of solution A
2. 20cm^3 of solution B
3. 20cm^3 of solution C
4. 20cm^3 of solution D
5. 60cm^3 of solution E
6. Two 10ml measuring cylinder
7. 100ml beaker
8. 500ml distilled water in a wash bottle.
9. Burette
10. Thermometer
11. Stop watch
12. Six test tubes in rack
13. One boiling tube
14. Filter paper
15. Unsed indicator paper and access to pH chart
16. 0.5g of solid F
17. 0.5g of solid G
18. 0.5g of solid H
19. 20cm3 of dilute nitric (v) acid. (21MHMO$_3$)

For Marking Schemes Contact 0746 222 000 / 0742 999 000

Access

2MNaOH supplied with a dropper

2MNH4OH supplied with a dropper

Source of heat supplied with a dropper

0.1M Pb $(NO_3)_2$ supplied with a dropper

0.1M Ba $(Na_3)_2$ supplied with a dropper

10 volume H_2O_2 supplied with a dropper

Acidified potassium manganate VII

Preparation of solutions

Solution A prepared by dissolving 50g of KI and tapping it up to 1 litre.

Solution B is prepared by dissolving 5g of sodium thiosulphate in a given amount of water and diluting to 1 litre.

Solution C prepared by dissolving 30cm^3 of ethanoic acid in 1 litre volumetric flask then add 68g of sodium ethanoate followed by 700cm^3 of distilled under shake the mixture then top it up to 1 litre.

Solution D is prepared by placing 10 grammes of starch, make a paste then add to boiling water to make 1 litre of solution.

Solution E is prepared by placing 60cm3 of 20 volumes hydrogen peroxide in 1 litre volumetric flask then adding distilled water to the mask.

Solid F is about 0.5g CuO

Solid G is about 0.5g Fe powder

Solid H is about 0.5g malleic acid

KCSE 2025 REVEALED EXAM

JOINT SERIES 1

233/3 **Chemistry** Paper 3

Time: 2¼ 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) *Answer **ALL** the questions in the spaces provided.*

c) *You are not allowed to start working with the apparatus for the first 15 minutes of the 2¼ hours allowed time for the paper.*

d) *Use the 15 minutes to read through the question paper and note the chemicals you require*

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

f) *All working **MUST** be clearly shown where necessary.*

FOR EXAMINER'S USE ONLY.

Question	Maximum score	Candidate's score
1	17	
2	17	
3	6	
Total score	40	

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QUESTION 1

You are provided with the following:

Solution A potassium iodide solution

" B sodium thiosulphate

" C acidic solution

" D Starch solution

" E Hydrogen peroxide

Distilled water

You are required to determine the rate of reaction between solution A and solution B

Procedure

Step 1

Place $10cm^3$ of solution A using 10ml measuring cylinder into a 100ml beaker.

Add $2cm^3$ of solution B followed by $2cm^3$ of solution C. In same beaker, Add 5 drops of solution D and finally $12cm^3$ of distilled water and shake the mixture.

Step 2

Using a burette, place 6cm3 of solution E into a test tube. Pour the measured 6cm3 of solution E into beaker in step 1 above and immediately start the stop watch. Swirl the mixture and place it on a white paper or tile. Observe the mixture and note the time taken for blue colour to appear.

Record the time taken in table 2

Measure the temperature of the mixture and record table 2.

Step 3

Repeat the step 1 and 2 using the volumes of solution given in table for experiments 2, 3, 4, 5 and 6, record in table below.

Table 1

experiment number	Volumes of solutions (cm^3)				Volume of distilled water
	A	B	C	D	
1	2	2	2	5 drops	12
2	4	2	2	5 drops	10
3	6	2	2	5 drops	8
4	8	2	2	5 drops	6
5	10	2	2	5 drops	4
6	12	2	2	5 drops	2

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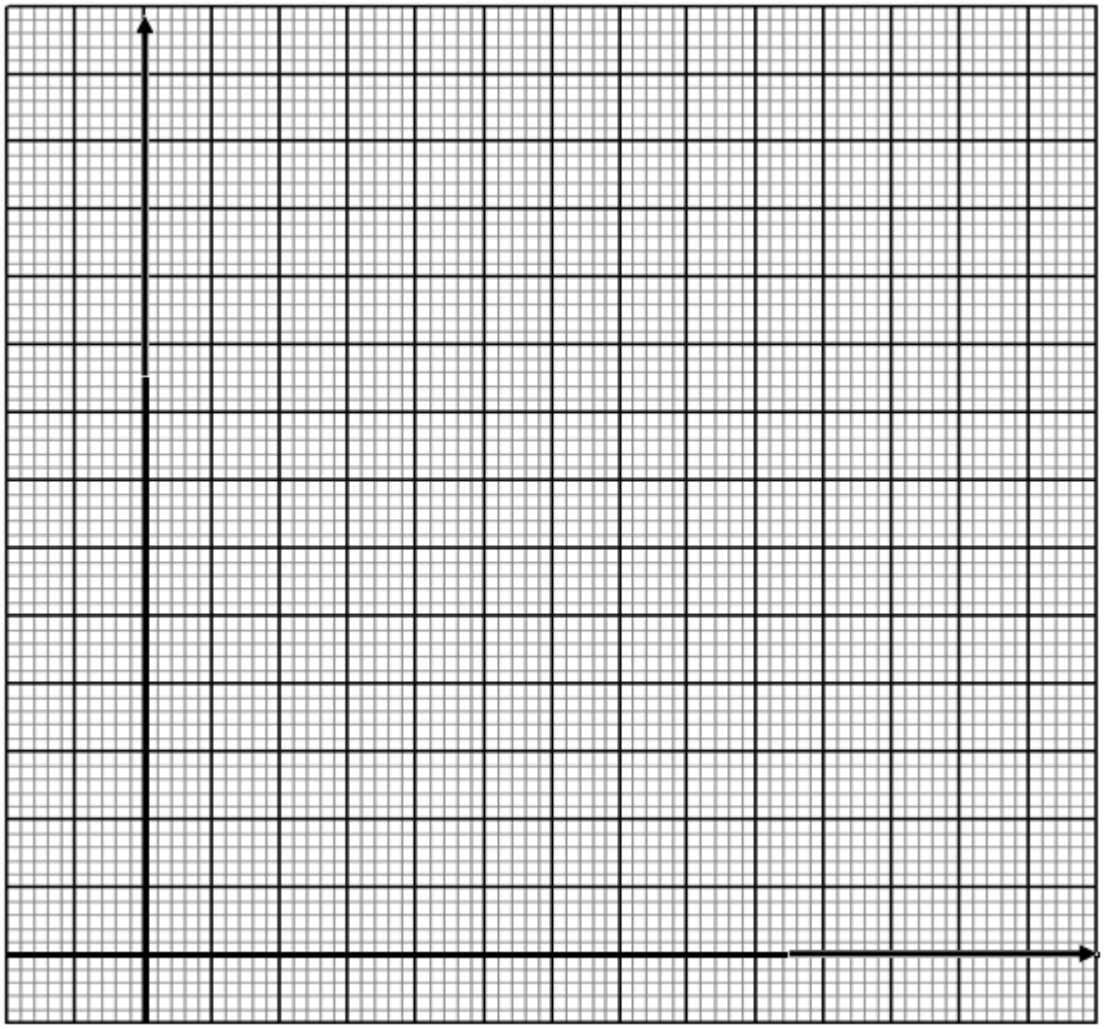
a) Calculate the rate of reaction 1/time 5^{-1} for each of experiments and fill table 2 below.

Table 2

experiment number	Volumes of solution A (cm^3)	Temp of solution (0c)	Time (sec)	Rate 1/t sec $^{-1}$
1	2			
2	4			
3	6			
4	8			
5	10			
6	12			

(8 marks)

b) Plot the graph of rate of reaction 1/time against volume of solution A. (3 marks)



c) If the experiment was repeated using 5cm3 of potassium iodide solution A, determine;

i) Volume of distilled water that would be used. **(1 mark)**

ii) Time taken for blue colour to appear. **(2 marks)**

d) Explain how rate of reaction is affected by the volume of potassium iodide. **(2 marks)**

e) Explain why it is necessary to record the temperature each experiment. **(1 mark)**

QUESTION 2

You are provided with solid F. Carry out the following tests and record your observations and inferences in the space provided.

a) Place all solid F into a boiling tube. Add about $10cm^3$ of dilute nitric (V) acid, warm the mixture and then allow it to stand until all the solid dissolves. Add about $10cm^3$ of distilled water to the solution and shake. Retain the solution for tests (b) and (c)

observations	Inferences
(2 marks)	**(1 mark)**

b) Use $2cm^3$ portion of solution obtained in 2(a) for each of the following tests.

i) To first portion, add 3 drops of Barium Nitrate.

observations	Inferences
(1 mark)	**(1 mark)**

ii) To the second portion, add 3 drops of lead (ii) Nitrate solution.

observations	Inferences
(1 mark)	**(1 mark)**

iii) To the third portion, add drops of 2MNaOH until in excess.

observations	Inferences
(1 mark)	**(1 mark)**

iv) To the fourth portion, add few then excess drops of 2MNH4OH provided in the access point.

observations	Inferences
(1 mark)	**(1 mark)**

c) To the last portion in the boiling tube add all solid G provided. Shake the mixture for about 2 minutes. Filter the mixture into a boiling tube. Retain the filtrate for test below.

observations	Inferences
(1 mark)	**(1 mark)**

i) To about $2cm^3$ of filtrate add few then excess drops of 2MNaOH.

observations	Inferences
(1 mark)	**(1 mark)**

ii) To about $2cm^3$ portion of filtrate add 3 drops of hydrogen peroxide solution then excess drops of 2MNaOH.

observations	Inferences
(1 mark)	**(1 mark)**

Question 3

You are provided with solid H carry out the following tests and record the observations and inferences in the space provided.

a) Place all solid in a boiling tube then add about $10cm^3$ of distilled water use the mixture for tests (i) and (ii) below.

observations	Inferences
(1 mark)	**(1 mark)**

i) Using about $2cm^3$ of the mixture in a test tube, determine the pH using universal indicator and pH chart.

pH	Inferences
(1 mark)	**(1 mark)**

ii) To about $2cm^3$ of the mixture in a test tube, add 3 drops of potassium manganate VII provided in the access.

pH	Inferences
(1 mark)	**(1 mark)**

KCSE 2025 REVEALED EXAM

JOINT SERIES 1

232/1 **Physics** Paper 1

Time: 2 Hours

NAME.....

SCHOOL..... **SIGN**.....

INDEX NO..... **ADM NO**.....

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

* *Write your name and index number in the spaces provided above.*
* *Sign and write the date of examination in the spaces provided above.*
* *This paper consists of two sections; A and B*
* *Answer **all** the questions in section A and B*
* *All working and answers must be written on the question paper in the spaces provided below each question.*
* *Non-programmable silent electronic calculators and KNEC mathematical tables may be used.*

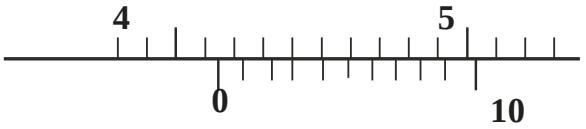
For Examiner's Use Only

Section	Question	Maximum	Candidate's
A	1 - 12	25	
B	13	10	
	14	12	
	15	11	
	16	12	
	17	10	
Total Score		80	

For Marking Schemes Contact 0746 222 000 / 0742 999 000

SECTION I :

1. Figure 1 below shows a scale of a Vernier calliper.



a) Record the reading indicated**.** **(1 mark)**

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b) Given that the instrument above had a zero error of negative 0.03cm. State the actual reading. **(1 mark)**

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2. Figure 2 shows water drops on two surfaces. If the first is smeared with oil while the second is clean.



smeared surface **clean surface**

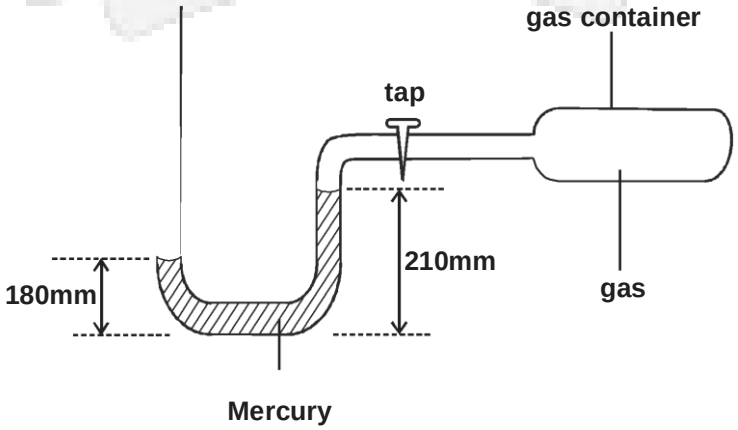
Explain the difference in the shapes of the drops**.** **(2 marks)**

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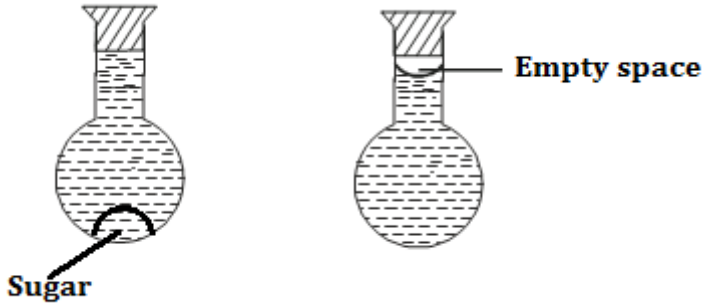
3. A U-tube manometer is used to measure the pressure of gas in a container as shown below. (The liquid in the manometer is mercury of density 13.6g/cm^3)



Find the pressure of the gas in the container. (Take atmospheric pressure as 102,000N/m^2 and

g = 10N/kg) **(3 marks)**

4. Sugar was put in a flask then water was added slowly until it was full then the flask was corked. The figure below shows the observation at the beginning of the experiment and at the end of the experiment.

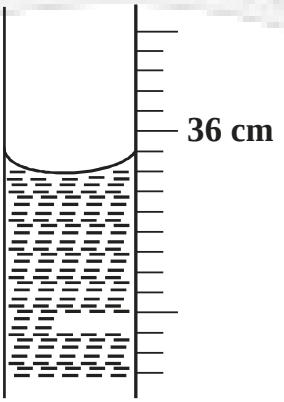


Account for the empty space. **(1 mark)**

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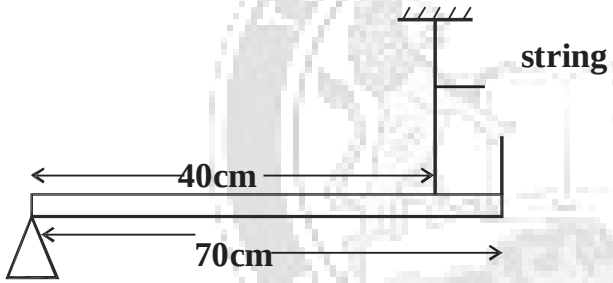
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5. In an experiment to measure the density of a liquid, a student filled a burette with a liquid to the $0cm^3$ mark. The figure below shows a section of burette showing the level of the liquid after 109g of the liquid had been run out.



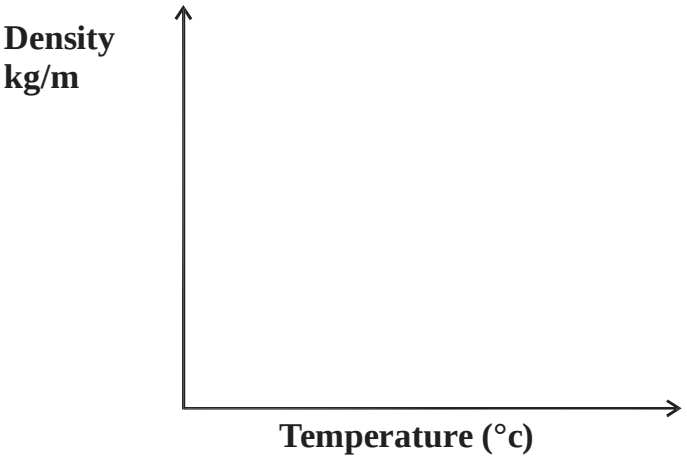
Determine the density of the liquid. **(3 marks)**

6. A uniform metal rod of weight 50N is balanced as shown below.

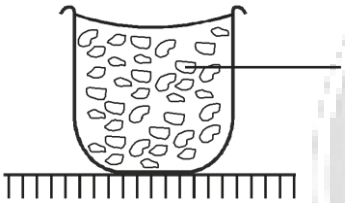


Find the tension on the string. **(3 marks)**

7. On the axis provided plot graphs of density against temperature for water and mercury when they are heated from 0^0 to 10^0C **(2 marks)**



8. The figure below shows a beaker containing ice at 0^0C. The beaker is placed on a bench.



State and explain the changes in stability or beaker when ice melts to water. **(2 marks)**

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9. Define elastic limit. **(1 mark)**

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10. Explain why it will feel cooler in a white car than a black one if both of them are left in the sun for a long time. **(1 mark)**

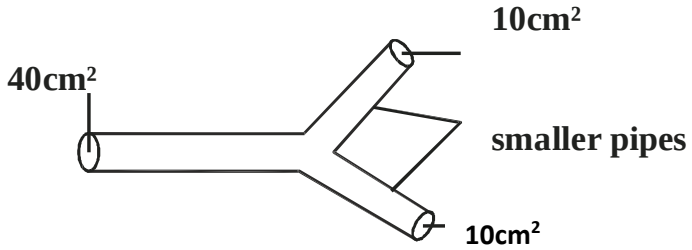
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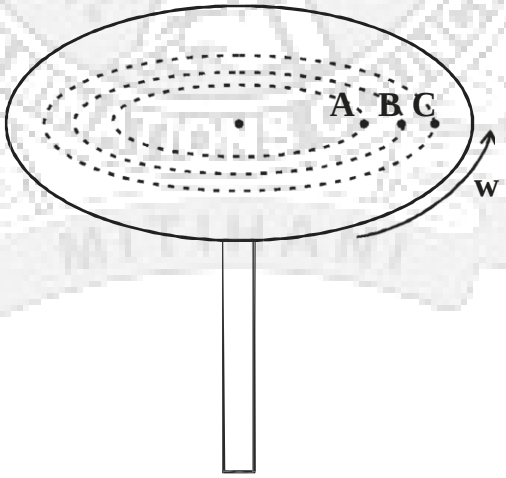
For Marking Schemes Contact 0746 222 000 / 0742 999 000

1 1 The figure below shows a horse pipe of a cross-sectional area of $40cm^3$.



If the horse pipe is connected to two smaller pipes of cross section $10cm^3$. Calculate the velocity of water in each of the two pipes. **(3 marks)**

12. The figure shows masses A, B and C. Placed at different points on a rotating table.



State **two** factors that determine whether a particular mass slides off the table or not.**(2 marks)**

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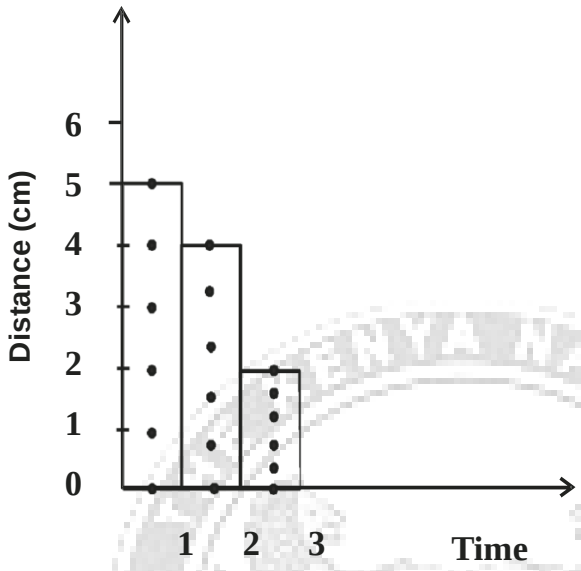
SECTION B

13. a) Define acceleration. **(1 mark)**

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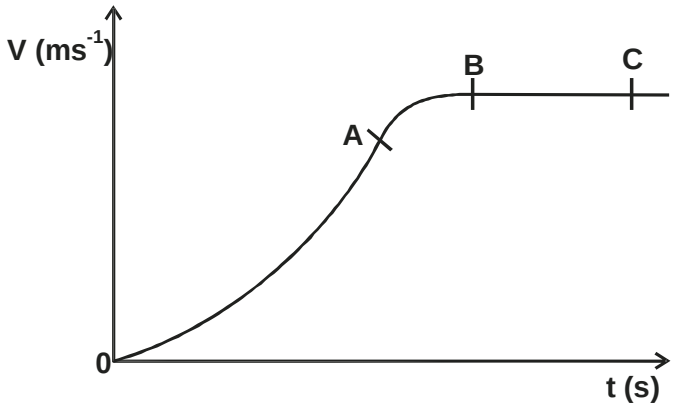
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b) The figure below shows a tape chart from paper tape pulled through a 50Hz ticker timer by a trolley.



Calculate the acceleration of the trolley in cms^{-2} **(3 marks)**

c) The figure below shows a velocity-time graph for the motion of a certain body.



Describe the motion of the body in the region.

i) OA **(1 mark)**

……

……

ii) AB **(1 mark)**

……

……

d) A particle starts from rest and accelerates uniformly in a straight line. After 4 seconds it is 20m from the starting point. Determine the acceleration of the particle. **(3 marks)**

e) Sketch a displacement-time graph for a body, falling through a fluid. **(2 marks)**

f) Distinguish between elastic and inelastic collision. **(1 mark)**

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14. a) State the class of lever to which a fishing rod belongs. **(1 mark)**

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b) State two reasons why the efficiency of hydraulic machine cannot be 100**%.** **(2 marks)**

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c) A crane lifts a load through a vertical distance of 8m in 12 seconds.

i)Given that the work done by the crane was 96000J. Calculate the amount of load lifted.

(2 mks

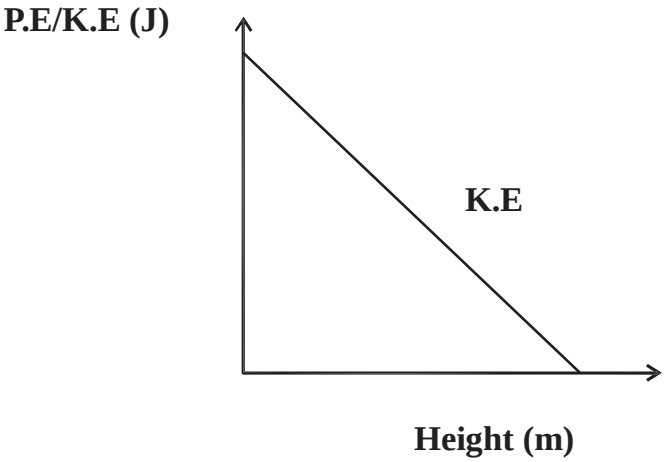
ii) Calculate the power developed by the crane. **(2 marks)**

iii) Given that efficiency of the crane was 80% and it was operated using an electric motor.

Calculate the rating of the motor. **(2 marks)**

For Marking Schemes Contact 0746 222 000 / 0742 999 000

d) The figure below shows how kinetic energy (K.E) at a ball thrown vertically upwards varies with height.



On the same axis, plot a graph of potential energy of the ball. **(1 mark)**

e) Sketch a labelled diagram to show how an arrangement of a single pulley may be used to provide velocity ratio of 2. **(2 marks)**

15. Akinyi wanted to determine specific heat capacity of iron. She was to use - metal block, thread, water, copper, calorimeter, stirrer, thermometer and cardboard cover, beaker and source of heat.

A metal block is dipped in water and water heated to a certain temperature and then transferred to a calorimeter containing some 50 grams of water.

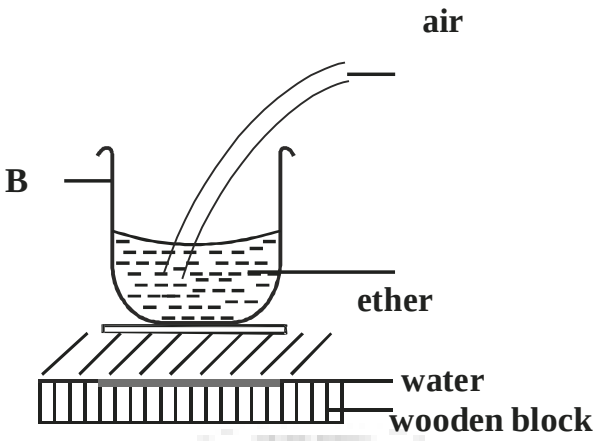
I. State two precautions to be taken to minimize heat losses to the surroundings. **(2 marks)**

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II. The following figure shows a beaker B placed on a little water on a wooden block and some liquid ether (spirit) then poured into the beaker. Air is now blown into the ether with a foot pump.



It was found after sometime, the water on the wooden block turned into ice. Explain. **(3 marks)**

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……

III. A lump of copper of mass 0.75kg is placed in an oven for some time and then transferred quickly to a large block of ice at 0^{o}C. When the temperature of the lump of copper reaches 0^{o}C, 0.45kg of ice is found to have melted. Determine the temperature of the oven. (Take the specific heat capacity of copper as 400J/kg/k and the latent heat of fusion of ice as 3.2 x 10^{5}J/kg) **(4 marks)**

For Marking Schemes Contact 0746 222 000 / 0742 999 000

b) Give two reason why the actual temperature of the oven may be higher than the above value.

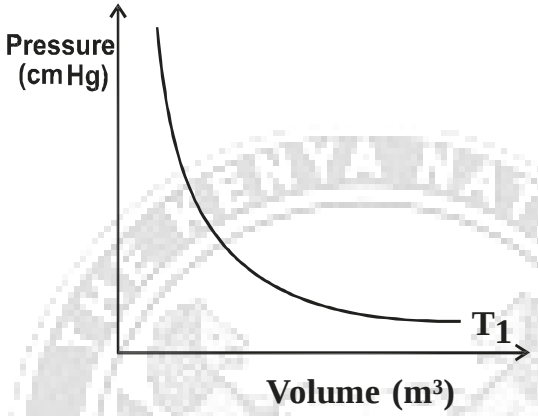
(2 marks)

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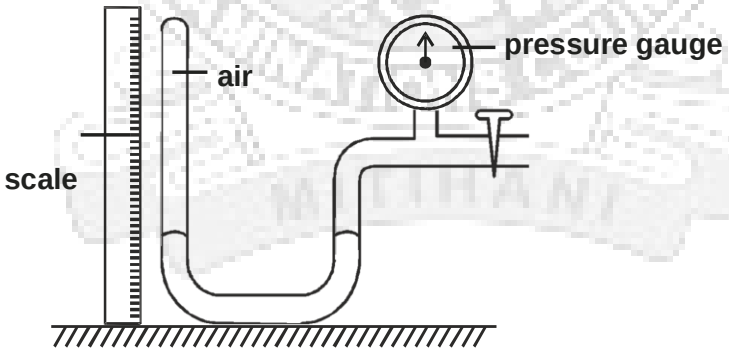
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16. a) The figure below shows a graph of pressure against volume for a fixed mass of gas at constant temperature.



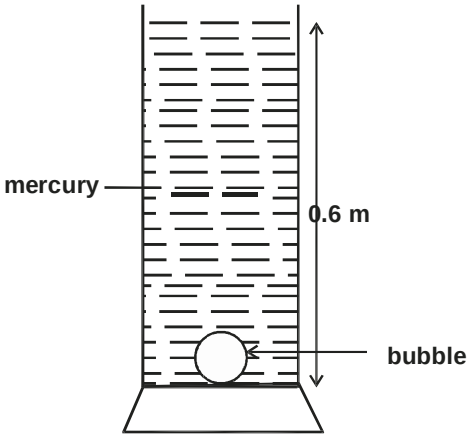
Sketch on the same axis, a graph for the same mass of gas with a temperature T_2 lower than T_1. **(1 mark)**

b) The figure below shows a simple set up for Boyle's law apparatus.



Describe how the apparatus may be used to verify Boyle's law**.** **(5 marks)**

b) The diagram below shows a measuring cylinder with an air bubble at the bottom.



Determine the volume of the air bubble just before the surface of mercury if the atmospheric pressure is 76cmHg and volume of the bubble at the bottom is $10cm^3$ **(3 marks)**

d) Using the kinetic theory of gases. Explain how a rise in the temperature of a gas causes a rise in the pressure of the gas if the volume is kept constant. **(3 marks)**

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17. a) State Archimedes principle. **(1 mark)**

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b) Why is the hydrometer made of:

i) wide bulb containing air **(1 mark)**

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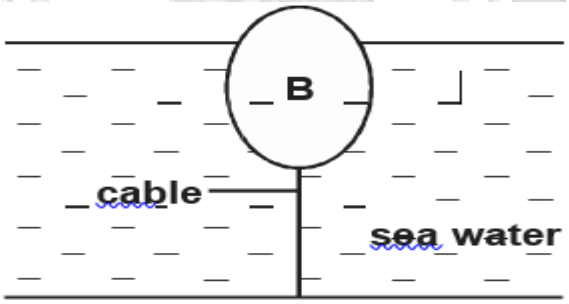
ii) a narrow stem **(1 mark)**

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……

c) A piece of metal weighs 4N in air and 2N when totally immersed in water. Determine the relative density of metal.(Density of water: 1000 kg/m^3 **(3 marks)**

d) The figure below shows a buoy B, volume 5m^3 and mass 2 tons. It is held in position in sea water of density 1030kg/m^3 by a light cable fixed to the bottom so that $^3/_5$ of the volume buoy is below the surface of the sea water. Calculate the tension on the cable. **(3 marks)**



KCSE 2025 REVEALED EXAM

JOINT SERIES 1

232/2 **Physics** 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 **above**.*
*(c) This paper consists of **two** Sections; **A** and **B**.*
*(d) Answer **ALL** the questions in sections **A** and **B** in the spaces provided.*
(e) All workings must be clearly shown.
*(f) Non-programmable silent electronic calculators and KNEC Mathematical tables **may be** used.*

FOR EXAMINER'S USE ONLY:

Section	Question	Maximum Score	Candidate's Score
A	1 – 13	25	
	14	10	
	15	13	
B	16	12	
	17	8	
	18	12	
Total Score		80	

SECTION A: (25 MARKS)

*Answer **all** questions in this section in the spaces provided:*

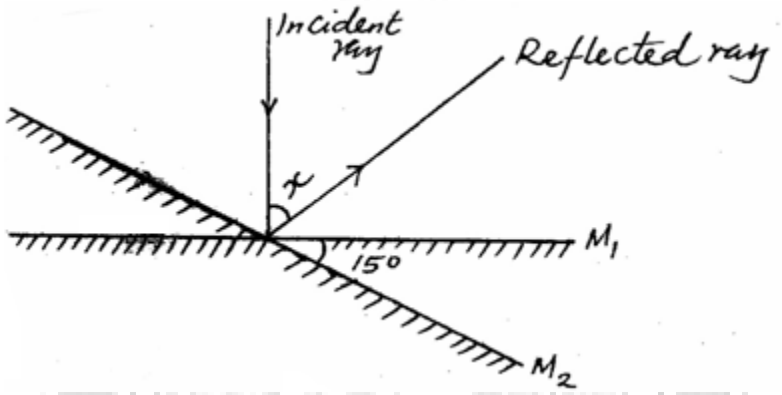
1. State t**wo** conditions under which a pinhole camera may form an image on its screen which has the same size as the object. **(2mks)**

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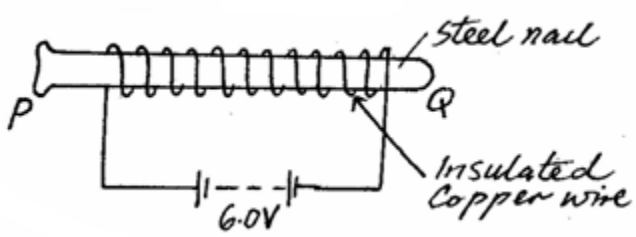
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2. The figure shows a ray of light incident along the normal. The mirror is rotated at an angle of 15º in a clockwise direction without changing the position of the incident ray,



Determine the angle between the reflection ray and the incident ray. **(2mks)**

3. A steel is to be magnetized by electrical method as shown below. Identify the pole **P** and **Q** of the resulting magnet. **(1mk)**



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P: _____

Q: _____

4. A small chain is often seen hanging at the back of a petrol carrying lorry. State and explain its significance. **(2mks)**

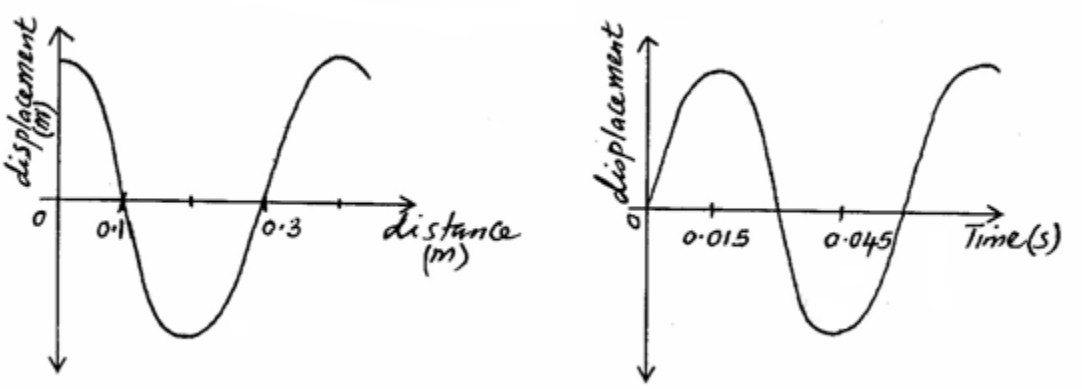
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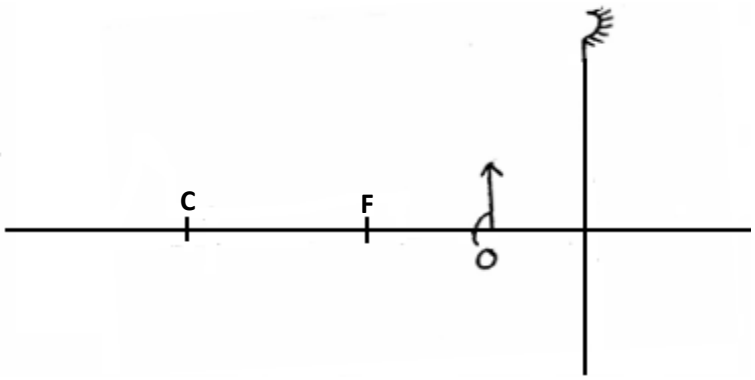
5. The figure **below** shows two waveforms representing the same wave motion.



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

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6. An object O is placed in front of a concave mirror and on the principal axis, as shown in the figure **below**. Complete the light ray diagram to locate the position of the image. **(3mks)**

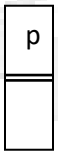


7. Arrange the following radiations in order of increasing wavelengths. **(1mk)**

Infrared, blue light, ultraviolet, radiowaves, χ-rays.

……

8. The figure **below** shows a block diagram of a p-n junction diode.



On the same diagram, show how a cell may be connected so that it is reverse biased. **(1mk)**

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9. A girl standing at a distance claps her hands and hears an echo from a tall building 2 seconds later. If the speed of sound in air is 340m/s, determine how far the building is. **(3mks)**

10. What do you understand by polarization as used in a simple cell? **(1mk)**

……

……

……

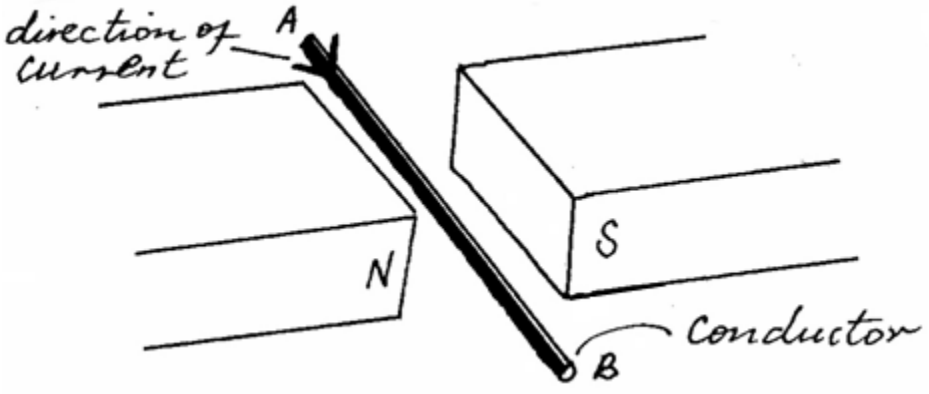
11. State how the defect mentioned in question 10 above is minimized in a simple cell. **(1mk)**

……

……

……

12. A current-carrying conductor **AB** is in a magnetic field as shown in the figure **below**.



(a) Indicate the direction of force F acting on the conductor. **(1mk)**

(b) State **two** factors that determine the direction of the force F. **(2mks)**

……

……

……

13. You are given three resistors of values 5Ω, 8Ω and 12Ω. Show in a circuit diagram how you would connect them so as to give:

(a) An effective resistance of 9.8Ω. **(2mks)**

(b) The least effective resistance. **(1mk)**

SECTION B: (55 MARKS)

Answer question in this section in the spaces provided.

14.(a) Define refractive index. **(1mk)**

……

……

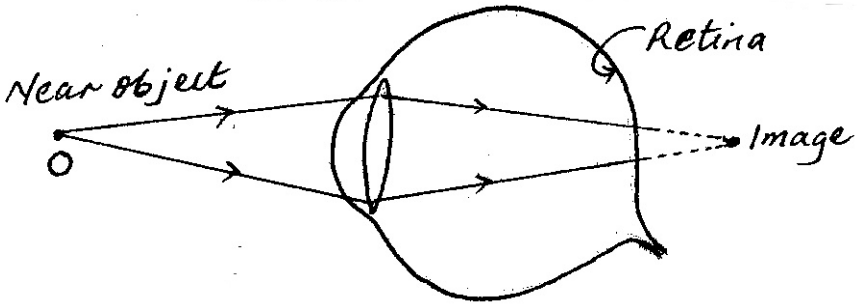
(b) The critical angle of a certain material medium is 43.2º. Determine the refractive index of the material. **(2mks)**

(c)(i) What do you understand by the term accommodation? **(1mk)**

……

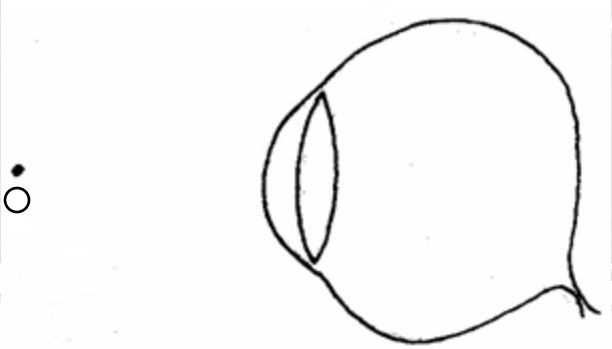
……

(ii) The diagram **below** shows a certain defect of vision. Name the defect. **(1mk)**



……

(iii) On the figure **below** show how the defect can be corrected. **(2mks)**



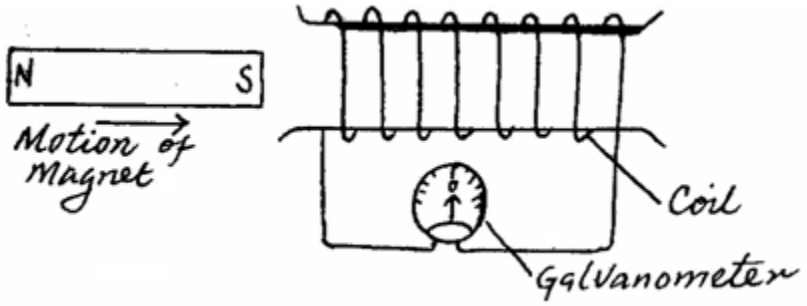
(d) An object is placed 40cm in front of a concave lens of focal length 20cm; determine the position of the image. **(3mks)**

15.(a)(i)State Lenz's a law of electromagnetic induction. **(1mk)**

……

……

(ii) A bar magnet is moved into a coil of insulated copper wire connected to a centre-zero galvanometer, as shown in the figure **below**.



i. Show on the diagram the direction of induced current in the coil. **(1mk)**

ii. State and explain clearly what is observed on the galvanometer when the S-pole of the magnet is moved into and then withdrawn from the coil. **(4mks)**

……

……

……

……

……

(b) A transformer has 800 turns in the primary and 40 turns in the secondary winding. The alternating e.m.f connected to the primary is 240V and the current is 0.5A.

(i) Determine

I. The secondary e.m.f **(2mks)**

II. The power in the secondary if the transformer is 95% efficient. **(2mks)**

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(ii) Explain how energy losses in a transformer are reduced by having:

I. A soft-iron core. **(2mks)**

……

……

……

II. A laminated core. **(1mk)**

……

……

16. (a)(i) Distinguish between thermionic emission and photoelectric emission**.** **(2mks)**

……

……

……

……

(ii) State **one** factor which affects the rate of each of the above types of emission.

Thermionic emission. **(1mk)**

……

Photoelectric emission. **(1mk)**

……

(b) Sodium has a work function of 2.3eV. Given that: Planck's constant h = 6.63×10^{-34}JS, velocity of light in vacuum, C = 3.0×10^{8}m/s, 1 electron-volt (1eV) = 1.6×10^{-19} C and mass of an electron, $m_e = 9.1 \times 10^{-31}$kg, calculate:

(i) Its threshold frequency. **(2mks)**

(ii) the maximum velocity of the photoelectrons produced when the sodium is illuminated by light of wavelength 5.0×10^{-7}m. **(4mks)**

(iii) The stopping potential V, with the light of this wavelength. **(2mks)**

17.(a)State two advantages of using a Cathode Ray Oscilloscope (C.R.O) as a voltmeter over the ordinary voltmeter. **(2mks)**

……

……

(b) An X-ray operates at 30000V and the current through it is 2mA. Given that the charge of an electron is 1.6×10^{-19}C, h = 6.63×10^{-34}JS, speed of light, C = 3.0×10^{8}m/s,

Calculate:-

(i) The maximum kinetic energy of the electrons when hitting the target**.** **(2mks)**

(ii) The number of electrons hitting the target per second. **(2mks)**

(iii) The minimum wavelength of the X-rays emitted. **(2mks)**

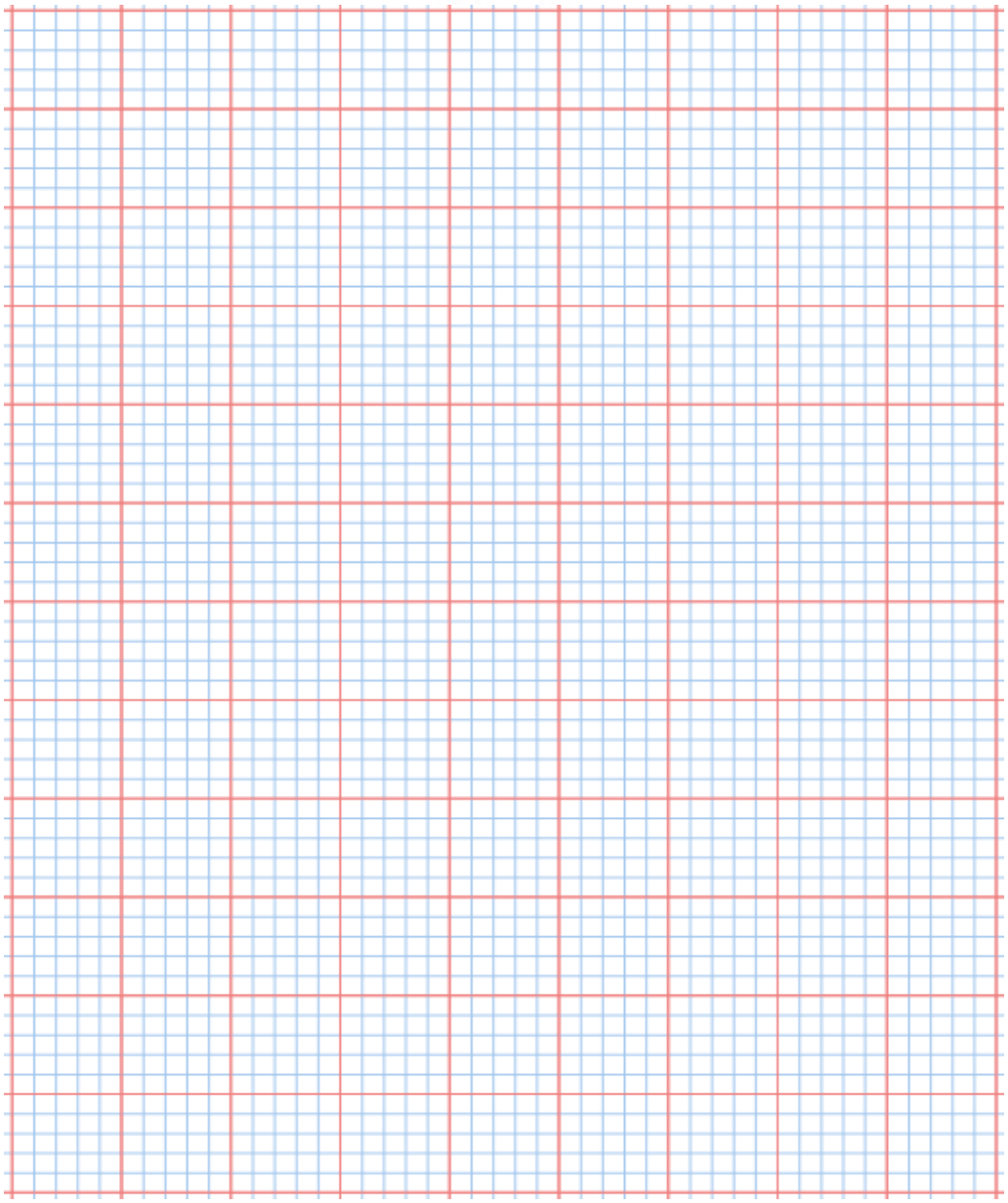
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18.(a)A radioactive carbon-14 decays to nitrogen by beta particles as shown **below**.

$$^{14}_{6}C = ^{\chi}_{7}N + ^{0}_{y}e$$

Determine the values of χ and y. **(2mks)**

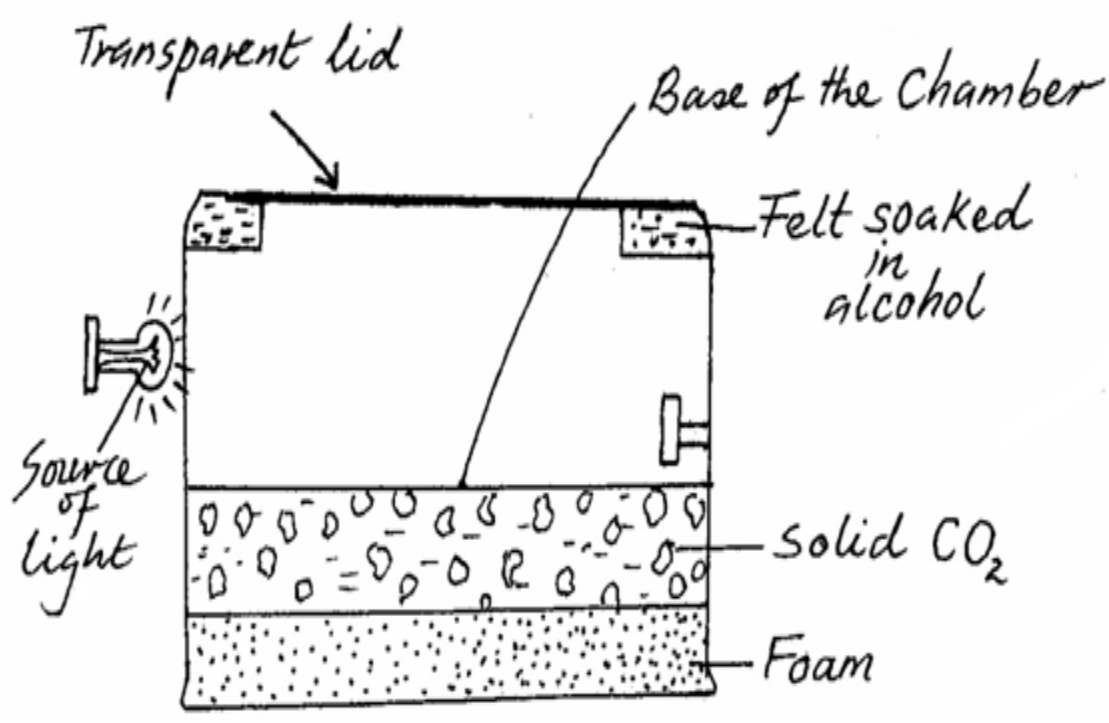
(b) The graph **below** shows the activity (disintegrations per minute) of a sample of carbon-14 against the time in years.



(i) From the graph determine the half-life of carbon-14. **(2mks)**

(ii) A mass of 100g of carbon-14 decays and the mass taken after 15000 years. Determine the mass that remains. **(3mks)**

(c) The figure **below** shows the cross-section of a diffusion cloud chamber used to detect radiation from radioactive sources.



(i) State the function of the following:

I. Alcohol. **(1mk)**

……

……

II. Solid CO_2. **(1mk)**

……

……

(ii) Explain briefly how the diffusion cloud chamber can be used to detect and identify alpha particles. **(3mks)**

……

……

……

……

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KCSE 2025 REVEALED EXAM

JOINT SERIES 1

232/3 Physics Paper 3

Time: 2½ Hours

SCHOOL..... **SIGN**.....

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INSTRUCTIONS TO SCHOOLS

QUESTION ONE REQUIREMENTS

- Ammeter
- Voltmeter
- Nichrome wire mounted on a millimeter scale (gauge 28)
- Switch
- A new dry cell
- A micrometer screw gauge
- Connecting wires
- A jockey

QUESTION TWO REQUIREMENTS

- A spiral spring (spring diameter =15mm
  Length= 70mm, diameter of spring wire=1.8mm, number of turns=88)
- A complete stand
- 7 masses of 20g each
- A stopwatch
- 2 small pieces of wood for clamping
- A glass block
- 4 optical pins
- A soft board
- One plain paper
- Student to come with geometrical set.

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KCSE 2025 REVEALED EXAM

JOINT SERIES 1

232/3 Physics Paper 3

Time: 2½ 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.*
- *Mathematical tables and non-programmable calculators may be used.*
- *This paper consists of section A and section B.*
- *Attempt all the questions in the spaces provided.*
- *ALL working MUST be clearly shown.*

FOR EXAMINERS USE

QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
1	18	
2	22	
TOTAL	40	

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1. QUESTION 1

You are provided with the following apparatus

- Ammeter
- A voltmeter
- A wire mounted on a millimeter scale
- A switch
- A new dry cell
- A micrometer screw gauge
- 6 Connecting wires
- A jockey

Proceed as follows

a) Measure the diameter d of the mounted wire at three different points

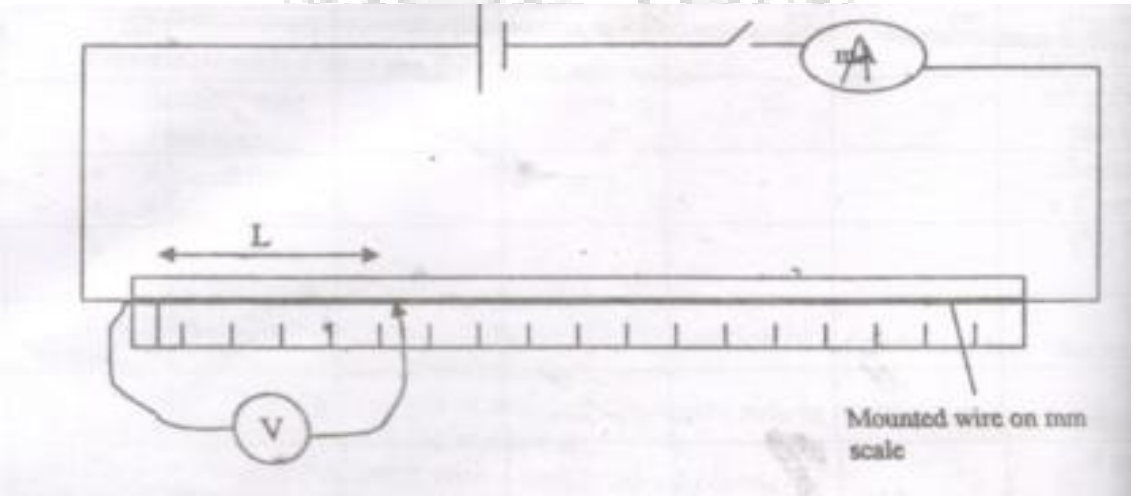
d_1= _____ mm

d_2=_____ mm **(½mk)**

d_3=_____ mm

Average d = _____ mm **(½mk)**

b) Set up the apparatus as shown in the circuit diagram.



Close the switch and tap the mounted wire with jockey as shown in the circuit. Ensure that both meters show positive deflection, open the switch.

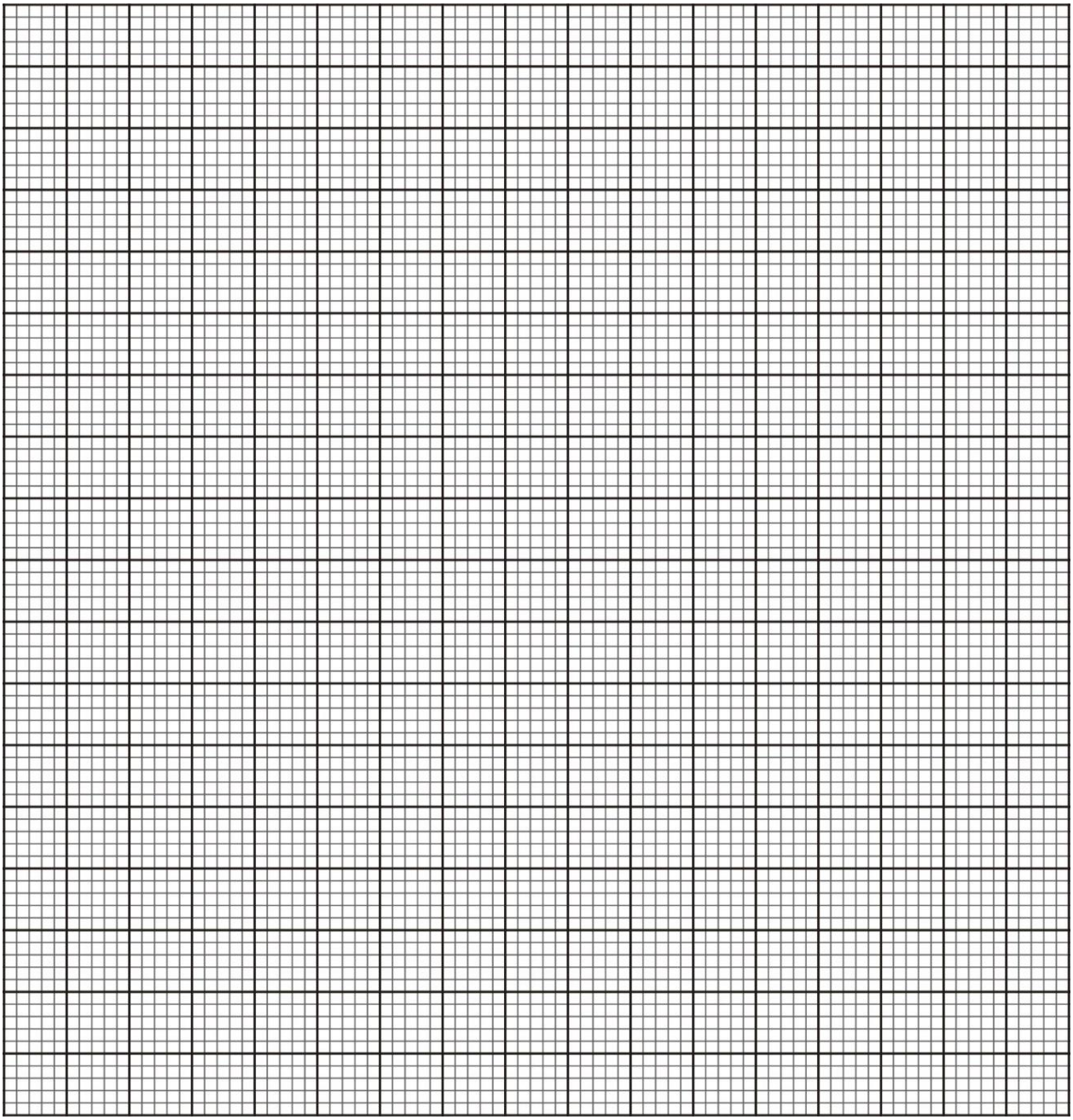
c) Tap the wire at L= 20cm, close the switch, read and record in the table the ammeter and voltmeter reading.

d) Repeat the procedure in (c) for other values of L shown in the table and complete the table.

L(m)	V(Volts)	I(A)	R=V/I
0.2			
0.3			
0.4			
0.5			
0.6			
0.7			
0.8			

(6mks)

e) Plot a graph of R against L (m). **(5mks)**



f) Determine the slope of the graph. **(3mks)**

g) Given that R= p$\frac{L}{A}$ where A is the cross-sectional area of the wire and p is a constant for the material of the wire, determine the value of the constant p. **(3mks)**

2. <u>QUESTION 2</u>

<u>Part 1</u>

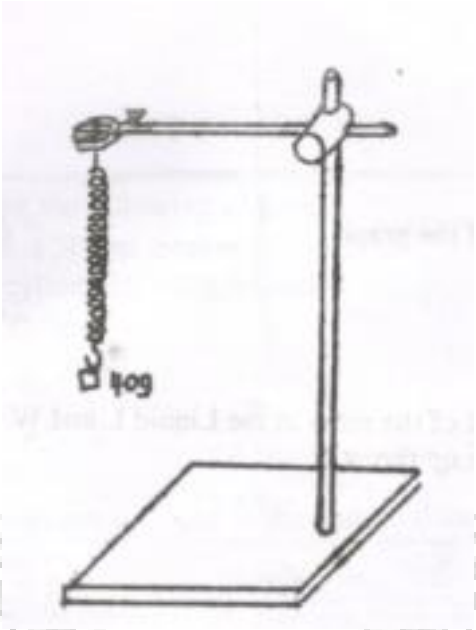
You are provided with the following;

- A spiral spring
- A complete stand
- 7 masses of 20g each
- A stop watch
- 2 small pieces of wood for clamping

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Proceed as follows

a) Clamp the spiral spring so as to hang from the clamp as shown in the figure below



b) Hang a 40g mass from the spring and displace the mass slightly downwards so that it executes vertical oscillations as shown

c) Measure and record in the table the time for 10 oscillations.

d) Determine the periodic time T in the table.

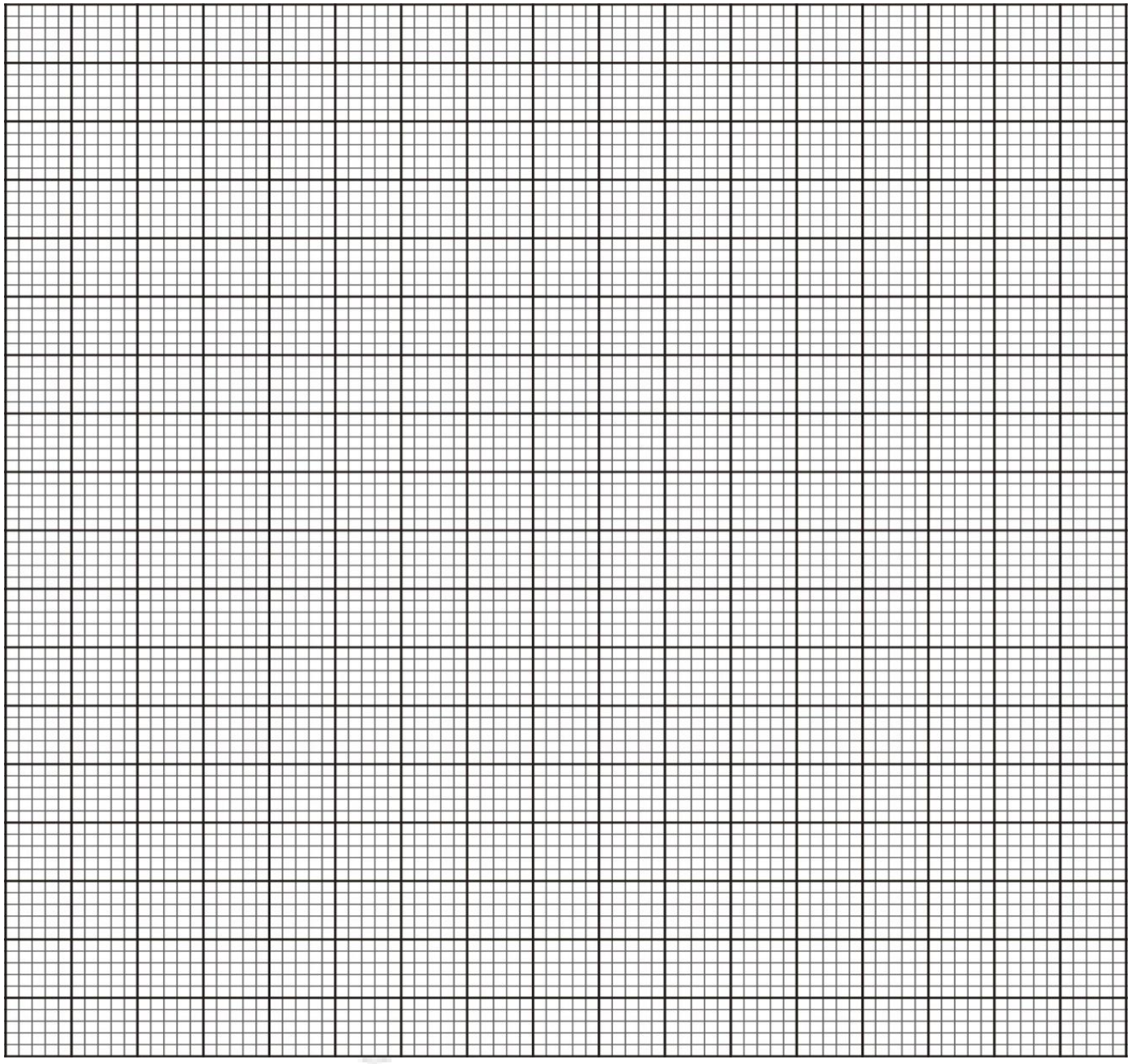
e) Repeat the experiment for other values of mass m shown in the table. Complete the table below.

Mass (m)g	**40**	**60**	**80**	**100**	**120**	**140**
Mass m (kg)						
Time for 10 osc(s)						
Period T(s)						
T^2 (s^2)						

(6mks)

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f) Plot a graph of T^2 (s^2) against mass m(kg). **(5mks)**



g) Determine the slope of the graph. **(2mks)**

h) Given that the equation of the graph is $\mathbf{T^2=\frac{4\pi^2 m}{w}}$

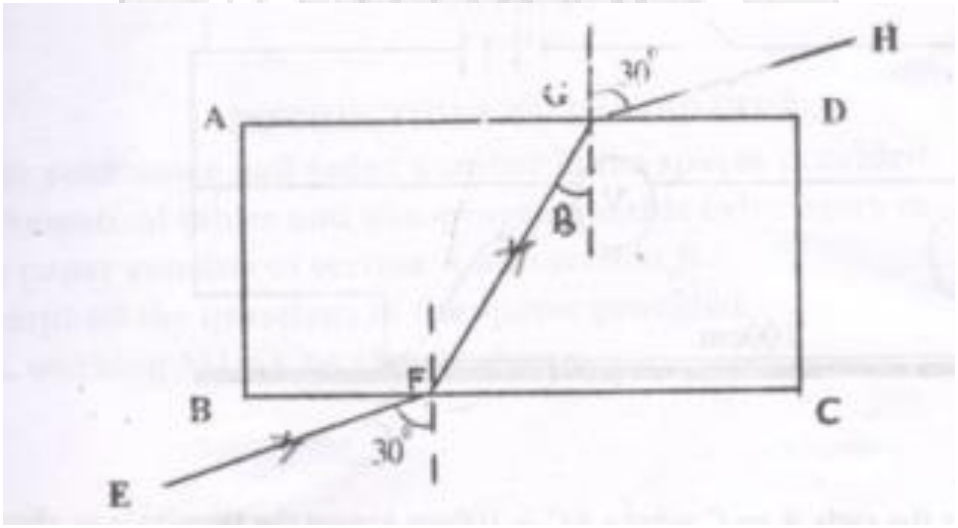
Determine the value of **w**. **(3mks)**

Part II

You are provided with a glass block, 4 optical pins, a soft board, one plain paper.

a) Place the rectangular glass block on a sheet of paper fixed on the soft board with one of its longest face uppermost. Mark the outline ABCD as shown in the figure. Remove the glass block and draw a line EF to represent a ray of light making an angle of incidence $i=30^0$ with the longest side BC of the block.

b) Stand pins p1and p2 on this line as far as possible. Replace the block and mark the emergent ray by looking into the side AD of the block and placing pins p3 and p4 in line with images of p1 and p2 as seen through the glass block. Remove the block and the pins and draw ray EFGH as shown in the figure below.



a) Draw the normal at G as shown.

b) Measure angle B **(1mk)**

B = ……

c) Given that $\mathbf{k}=\frac{sin\ 30^0}{\sin B}$

Calculate the value of **k**. **(2mks)**

d) The main paper used should be handed over together with this paper (correct use made of the plain paper) **(1mk)**

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KCSE 2025 REVEALED EXAM

JOINT SERIES 1

121/1 Mathematics Paper 1

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

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SECTION I (50 MARKS)

*(Answer **all** questions in this section in the spaces provided below each question)*

1. Simplify $\frac{12x^2+ax-6a^2}{9x^2-4a^2}$ **(3 marks)**

2. Paul bought a refrigerator on hire purchase by paying monthly instalments of Ksh. 2000 per month for 40 months and a deposit of Ksh. 12,000. If this amounted to an increase of 25% of the original cost of the refrigerator, what was the cash price of the refrigerator? **(3 marks)**

3. Without using calculator, evaluate

$\left(\frac{7}{3}\left[\frac{2}{5}of\,1\frac{2}{3}-\frac{1}{2}\left(\frac{1\frac{2}{3}-2\frac{1}{2}}{\frac{1}{3}-\frac{19}{27}}\right)^{\frac{1}{2}}+\frac{2}{3}\right]\right)^{\frac{1}{2}}$ leaving the answer as a mixed fraction. **(4 marks)**

4. During a certain month, the exchange rates in a bank were as follows;

	Buying (Ksh.)	Selling (Ksh.)
1 US $	91.65	91.80
1 Euro	103.75	103.93

A tourist left Kenya to the United States with Ksh.1 000,000.On the air port he exchanged all the money to dollars and spent 190 dollars on air ticket. While in US he spent 4500 dollars for upkeep and proceeded to Europe. While in Europe he spent a total of 2000 Euros. How many Euros did he remain with? **(3marks)**

5. A regular *n*-sided polygon has its interior angle equal to 4 times its exterior. Find *n.* **(3 marks)**

6. The ratio of the lengths of the corresponding sides of two similar rectangular petrol tanks is 3:5.The volume of the smaller tank is $8:1m^3$.Calculate the volume of the larger tank.**(3 marks)**

7. A man walks directly from point A towards the foot of a tall building 240m away. After covering 180m, he observes that the angle of elevation of the top of the building is 45^0.Determine the angle of elevation of the top of the building from A. **(3 marks)**

8. The G.C.D. and L.C.M. of three numbers are 3 and 1008 respectively. If two of the numbers are 48 and 72, find the least possible value of the third number. **(3 marks)**

9. Solve for x in the equation below without introducing logarithms

$5^{2x-1} = 60^{2x-1}$ **(3 marks)**

10. The table below shows masses of fifty students in a form one class.

Mass (kg)	**Frequency**
25-30	6
30-35	10
35-40	24
40-45	7
45-50	4

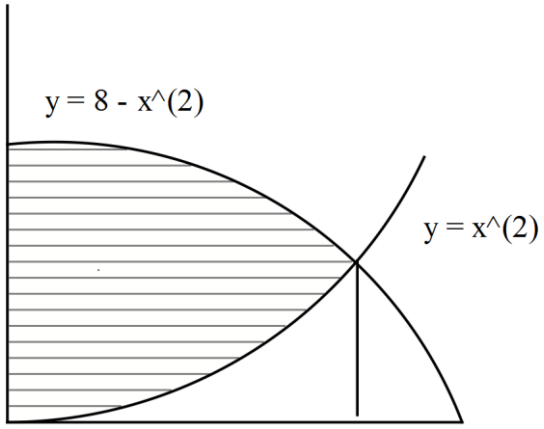
a) State the modal class. **(1mark)**

b) Calculate to 3 d.p the median mass. **(2 marks)**

11. Given that the position vectors of points P and Q are $\boldsymbol{p} = \begin{pmatrix} -4 \\ -2 \end{pmatrix}$ **and** $\boldsymbol{q} = \begin{pmatrix} 5 \\ 4 \end{pmatrix}$. M is a point on PQ such that PM:MQ = 2:1. Find the coordinates of M. **(3 marks)**

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12. Calculate the area of the shaded region. **(3 marks)**



2

13. Solve the simultaneous equations. **(4 marks)**

$\frac{p}{q+1} = \frac{1}{4}, \frac{p-3}{p+q} = \frac{2}{3}$

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14. The ratio of boys to girls in a school is 4:5. One day $\frac{1}{3}$ of the boys and $\frac{1}{5}$of the girls were absent. If 8 less pupils had been absent, $\frac{3}{4}$ of the school would have been present. Calculate the number of pupils in the school on that day. **(3 marks)**

15. Tap A can fill a tank in 10 minutes; tap B can fill the same tank in 20 minutes. Tap C can empty the tank in 30 minutes. The three taps are left open for 5 minutes, after which tap A is closed. How long does it take to fill the remaining part of the tank? **(3 marks)**

16. A solid in a shape of a right pyramid on a square base of side 8cm and height 15cm is cut at 6cm height from the base. Find the volume of the frustrum formed. **(3 marks)**

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SECTION II (50 MARKS)

(Answer ANY FIVE questions in the spaces provided)

17. The points $A^{I}B^{I}C^{I}$ are the images of $A(4,1), B(0,2) and\ C(-2,4)$ respectively under a transformation represented by the matrix $M = \begin{pmatrix} 1 & 1 \\ 1 & 3 \end{pmatrix}$.

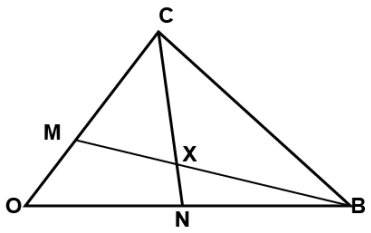
(a) Write down the coordinates of $A^{I}B^{I}C^{I}$ **(3 marks)**

(b) $A^{II}B^{II}C^{II}$ are the images of $A^{I}B^{I}C^{I}$ under another transformation whose matrix is $N = \begin{pmatrix} 2 & -1 \\ 1 & 2 \end{pmatrix}$. Write down the co – ordinates of $A^{II}B^{II}C^{II}$ **(3 marks)**

(c) Transformation M followed by N can be replaced by a single transformation P. determine the matrix for P. **(2 marks)**

(d) Hence determine the inverse of matrix P. **(2 marks)**

18. The figure below shows a triangle OAB with O as the origin. ***OA=$\underline{a}$ OB = $\underline{b}$, OM 2/5$\underline{a}$ and ON = 2/3$\underline{b}$.***



a) Express in terms of $\underline{a}$ and $\underline{b}$ the vectors

(i) BM **(1 mark)**

(ii) AN **(1 mark)**

b) Vector OX can be expressed in two ways: OB + KBM or OA + hAN, where K and h are constants.

Express OX in terms of:

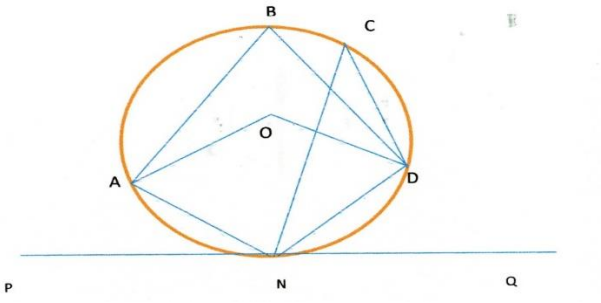
i. $\underline{a}$, $\underline{b}$ and k. **(2 marks)**

ii. $\underline{a}$, $\underline{b}$ and h. **(2 marks)**

c) Find the values of k and h. **(4 marks)**

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19. In the figure below, O is the center of the circle. PQ is a tangent to the circle at N. Angle NCD is 10° and angle ANP is 30°



Giving reasons find;

a) Angle DON **(2marks)**

b) Angle DNQ **(2marks)**

c) Angle **DBA** **(2marks)**

d) Angle ONA **(2marks)**

e) Angle ODN. (**2marks)**

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20. The displacement h metres of a particle moving along a straight line after t seconds is given by $h=-2t^3+\frac{3}{2}t^2+3t$.

a) Find its initial acceleration **(3 marks)**

b) Calculate;

i) The time when the object was momentarily at rest **(3 marks)**

ii) Its displacement by the time it comes to rest **(2 marks)**

c) Calculate the maximum speed attained **(2 marks)**

21. A metal R is an alloy of two metals X and Y. Metal X has a mass of 70g and a density of $16g/cm^3$. Metal Y has a mass of 19g and a density of $4g/cm^3$.

(a) Calculate the density of the metal R. **(4 marks)**

(b) If metal R is divided into two equal parts and each half reinforced by adding metal X to get to initial volume. Find the density of the new alloy. **(4 marks)**

(c) The two metals are mixed in a ratio of 4:1 respectively. What is the density of the alloy?

(2 marks)

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22. A trailer moving at a speed of 80km/h is being overtaken by a car moving at 100km/h in a clear section of a road. Given that the bus is 21m long and the car is 4m long.

a) How much time (in seconds) will elapse before the car can completely overtake the bus?

(**3 marks)**

b) How much distance (in metres) will the car travel before it can completely overtake the bus?

(2 marks)

c) Given that as soon as the car completed overtaking the trailer, a bus heading towards the trailer and the car and moving at a speed of 90km/h became visible to the car driver. It took exactly 18 seconds for the car and the bus to completely by pass each other from the moment they first saw each other.

i. How far was the tail of the bus from the tail of the car at the instance they first saw each other given that the bus is 12 metres long? **(3 marks)**

ii. How far a part was the trailer and the bus just immediately after the car and the bus had passed each other? **(2 marks)**

23. Every Sunday Alex drives a distance of 80km on a bearing of 074^0 to pick up his brother John to go to church. The church is 75km from John's house on a bearing of **S**50^0**E**. After church they drive a distance of 100km on a bearing of 260^0 to check on their father before Alex drives to John's home to drop him off then proceeds to his house.

(a) Using a scale of 1cm to represent 10km, show the relative positions of these places.**(4 marks**)

(b) Use your diagram to determine:

(i) the true bearing of Alex's home from their father's house**.** **(1 mark)**

(ii) the compass bearing of the father's home from John's home. **(1 mark)**

(iii) the distance between John's home and the father's home. **(2 marks)**

(iv) the total distance Alex travels every Sunday. **(2 marks)**

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24. **P** and **Q** are two points on a geographical globe of diameter 50 cm. They both lie on a parallel latitude 50^{o} North. **P** has longitude 90^{o} West and Q has longitude 90^{o} East. A string **AB** has one end at point **P** and another at point **Q** when it is stretched over the North pole. Taking $\pi = 3.142$;

(a) Calculate the length of the string. **(3 marks)**

(b) If instead the string is laid along the parallel of latitude 50^{o}N with **A** at point **P**, calculate the longitude of point **B.** **(3 marks)**

(c) State the position of **B** if the string is stretched along a great circle of **P** towards the South pole if point **A** is static at **P**. **(4 marks)**

MITIHANI

KCSE 2025 REVEALED EXAM

JOINT SERIES 1

121/2 **Mathematics** 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

SECTION A (50 MARKS)

Answer all questions in this section in the spaces provided

1. A piece of wire 10cm long is to be cut into two parts. If the parts are bent to form a square and a circle respectively, find the length each of the two parts, and hence find the radius of the circle formed, if the sum of their areas is minimum. **(4 marks)**

2. In 2023, the cost of processing a bag of wheat was Ksh 250, and this was divided between electricity costs and labour in the ratio 2:3. In the year 2024, the cost of electricity doubled, while the cost of labour increased by x%. Calculate the value of x given that the cost of processing a bag of wheat in 2024 is 425. **(2 marks)**

For Marking Schemes Contact 0746 222 000 / 0742 999 000

3. A triangle PQR is such that the equation of line PQ is 3y-2x - 11 =0, while that of line QR is 2y - 3 = -3x. Find the coordinates of the point of intersection of the two lines. **(3 marks)**

4. Three quantities **b, n** and **m** are such that **b** varies directly as the product of **m** and **n**, and inversely as the square root of the difference of $\mathbf{n^2}$ and **m**. Form an equation connecting b, n and m. Express **n** in terms of **b**, **m** and **k,** where k is the constant of proportionality**. (3 marks)**

5. The locus of points 3 cm away from a point (m,m) passes through the point (2,5). Find the value of m. **(3 marks)**

6. Using a ruler and pair of compasses only, construct triangle MNP in which MN = 5cm, NP = 4.4cm and angle PNM = 45^0. Draw a circle passing through all the vertices of the triangle and measure its radius. **(3 marks)**

7. The deviations from the mean of a set of data are given as -4, -1, x^2, 1, x, and -2. Find the value of x, hence find the standard deviation of the data, given that x is positive. **(3 marks)**

For Marking Schemes Contact 0746 222 000 / 0742 999 000

8. Two parallel chords of length 4.6cm and 6.8cm are on the same side of a circle of radius r cm. calculate the radius of the circle, correct to four significant figures, given that distance between the two chords is 2cm. **(3 marks)**

9. A piece of land is in the shape of a quadrilateral ABCD such that side AB=AD=50m, < DAB= 100^0, < ABC = 87^0 and < ADC = 79^0Determine the length of barbed wire that would go around the land to the nearest metre. **(4 marks).**

10. OABC is parallelogram in which **OA** =**a** and **OC** =**c**. Y is the mid-point of **OC**, and **AY** meets **OB** at X. X divides line **OB** and **AY** in the ratio 3:4 and 1:2 respectively. Find **OB** in terms of **a** and **c.** **(3 marks)**

For Marking Schemes Contact 0746 222 000 / 0742 999 000

11. Simplify without using tables or calculators: **(3 marks)**

$$\frac{\sin 480^0 - \cos 765^0}{\tan 225^0 - \cos(-330^0)}$$

12. Use the first four terms of the expansion $(2a + b)^8$ to find the value of 2.05^8 correct to 4 significant figures. **(3 marks)**

13. Bazu owns a total more than 10 buses and matatus combined. There are four more matatus than buses, and the buses are not more than 8 in number. By taking x to represent the number of buses, write down all the inequalities for the information and hence state all possible solutions of x. **(3 marks)**

14. Two similar metallic cylinders have masses of 64g and 125g respectively. The smaller cylinder has a volume of 21.56cm^3. The larger cylinder is molded into a sphere of radius r. Find the value of r correct to 3 decimal places. **(3marks)**

15. A ship is observed from the top of a cliff 200 m high in a direction N18^{0}E at an angle of depression of 15^0. Thirty minutes later, the same ship is observed in a direction S72^{0}E at an angle of depression of 10^0. Find the distance travelled in the 30 minutes assuming that the ship travelled along a straight line. **(4 marks)**

16. A right pyramid VABCD has its vertex at V and a rectangular base ABCD. AB= 8cm, BC=6cm and all the slant edges of the pyramid are 10cm. Find the angle between plane VBC and plane VAD correct to two decimal places. **(3 marks)**

For Marking Schemes Contact 0746 222 000 / 0742 999 000

SECTION B (50 MARKS)

Answer only FIVE questions in this section in the spaces provided

17. The table below shows the income tax rate for a certain year

Income in Ksh. p.m	**Tax rate(%)**
1 – 11180	10
11181 – 21714	15
21715 – 32248	20
32249 – 42781	25
42782 and above	30

In a certain month, Mr Zakayo paid a net tax of Ksh 26416. He was entitled to a monthly personal relief of Ksh 1648. He also paid insurance premiums amounting to 18200 and was entitled to an insurance relief at 15% of premiums paid, subject to a maximum of Ksh 2000 per month. He also lived in a company house for which he paid a nominal rent of 5200 per month. Other taxable allowances amounted to sh. 22400.

a) Calculate Mr Zakayo's monthly gross tax **(2 marks)**

b) Calculate Mr Zakayo's total taxable income in that month **(4 marks)**



c) Calculate Mr Zakayo's net monthly income. **(4 marks)**

18. The equation of a curve is given as $y = \frac{x(x-2)}{(x-1)^{-1}}$.

a) Sketch the curve. **(7 marks)**

c) Determine the exact area bounded by the curve and the x-axis. **(3 marks)**

For Marking Schemes Contact 0746 222 000 / 0742 999 000

19. Water flows through a cylindrical pipe of diameter 2.8cm at a speed of 25m/min.

a) Calculate the volume of water delivered by the pipe per minute in litres. **(3 marks)**

b) A cylindrical storage tank of depth 2.5m is filled by water from this pipe and at the same rate of flow. Water begins flowing into the empty storage tank at 8:00am and is full at 2:00pm. Calculate the area of the cross section of this tank in m^2. **(4 marks)**

c) A family consumes the capacity of this tank in one month. The cost of water is sh. 150 per 1000 litres plus a fixed maintenance charge of sh. 200. Calculate this family's water bill for a month. **(3 marks)**

For Marking Schemes Contact 0746 222 000 / 0742 999 000

20. The second, 4^{th} and 7^{th} terms of an AP form the first three consecutive terms of a GP.

a) Find the common ratio of the G.P **(5 marks)**

b) The first term of the GP if the common difference of the AP is 3 **(2 marks)**

c) The seventh and the fifth terms of the G.P form the first two consecutive terms of an AP. Find the sum of the first 20 terms of the AP formed. **(3 marks)**

For Marking Schemes Contact 0746 222 000 / 0742 999 000

21. Use a ruler and a pair of compasses only for all constructions in this question.

(a) Construct parallelogram ABCD such that $<ABC = 67.5^0$, BA = 7.8cm and CB = 5.6cm.

(3 marks)

(b) Construct a perpendicular from A to meet DC at E. Measure AE, hence find the area of the parallelogram. **(2 marks)**

(c)On the same side of AB as C and D, construct the locus of points P such that $< APB = 45^0$

(2 marks)

(d) Identify by shading the unwanted region, the locus of points R such that AR > 2.8 cm, AR≤ RB and $<ARB \geq 45^0$. **(3 marks)**

For Marking Schemes Contact 0746 222 000 / 0742 999 000

22. In a form 4 chemistry classes consisting of both boys and girls, $^{2}/_{5}$ of the students are girls. $^{2}/_{3}$ of the boys and $^{7}/_{10}$ of the girls are right handed. The probability that a right-handed student breaks a conical flask in any practical session is $^{3}/_{7}$ and the corresponding probability of a left-handed student is $^{4}/_{9}$, independent of the student's gender.

a) Draw a tree diagram to represent the above information **(2 marks)**

b) Determine the probability that a student chosen at random from the class is left handed and does not break a conical flask during a practical session in simplest form**.** **(3 marks)**

c) Determine the probability that a conical flask is broken in any chemistry practical session in simplest form. **(3 marks)**

d) Determine the probability that a conical flask is not broken by a right-handed student in the simplest form. **(2 marks)**

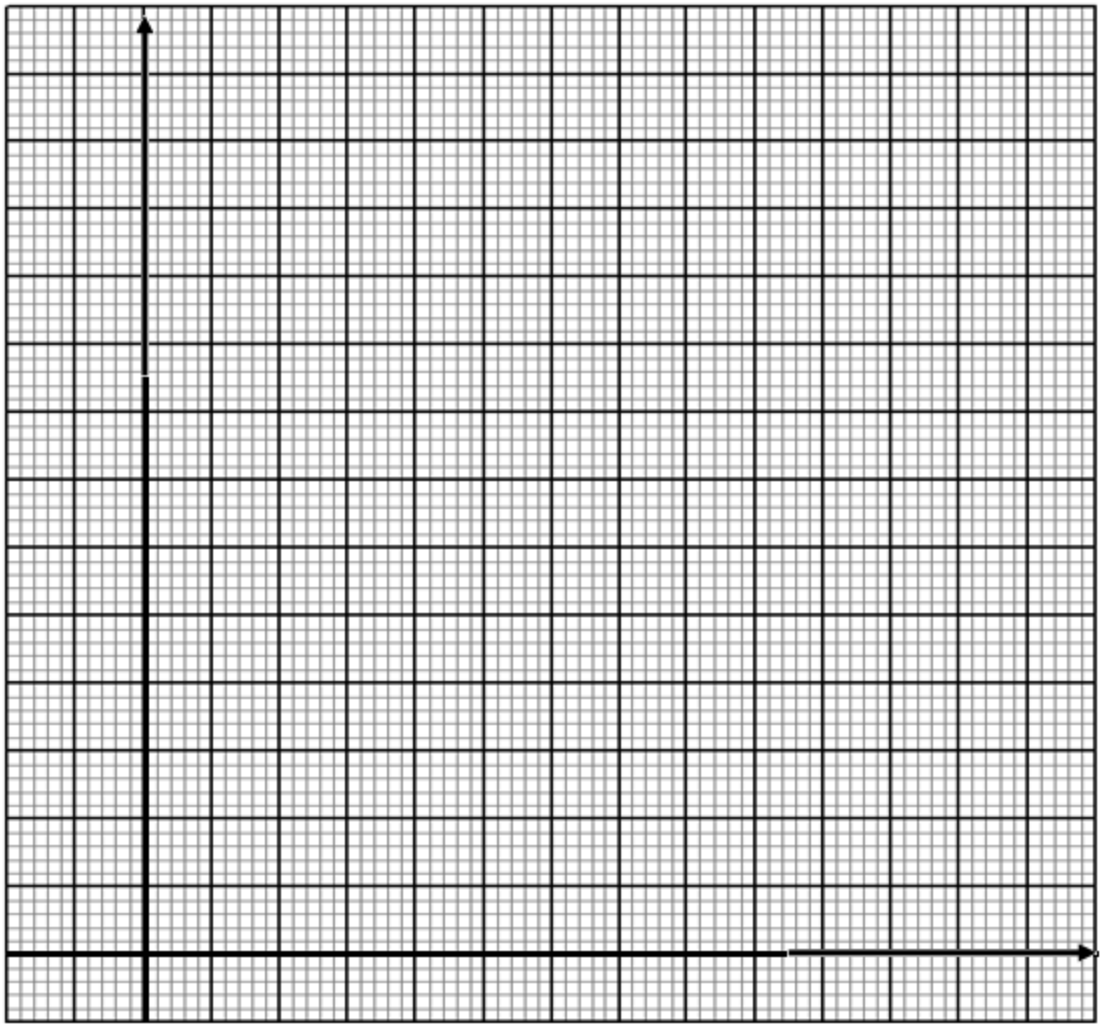
23. A farmer wishes to grow two crops, maize and beans. He has 70 acres of land available for this purpose. He has 240 man-days of labour available to work out the land and he can spend up to sh. 180,000. The requirements of the crops are as follows:

	Maize	Beans
Minimum number of acres to be sown	10	20
Man – day per acre	2	4
Cost per acre in sh.	3,000	2,000
Profit per acre in sh.	15,000	10,000

a) If x and y represent the number of acres to be used for maize and beans respectively, write down in their simplest form, all the inequalities which x and y must satisfy. **(2 marks)**

b) Represent the inequalities on the grid provided **(5 marks)**

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c) Profit per acre of maize and beans is sh. 15,000 and 10,000 respectively. Draw a suitable search line on the graph and use it to find the number of acres to be used for maize and beans so as to give maximum profit. **(2 marks)**

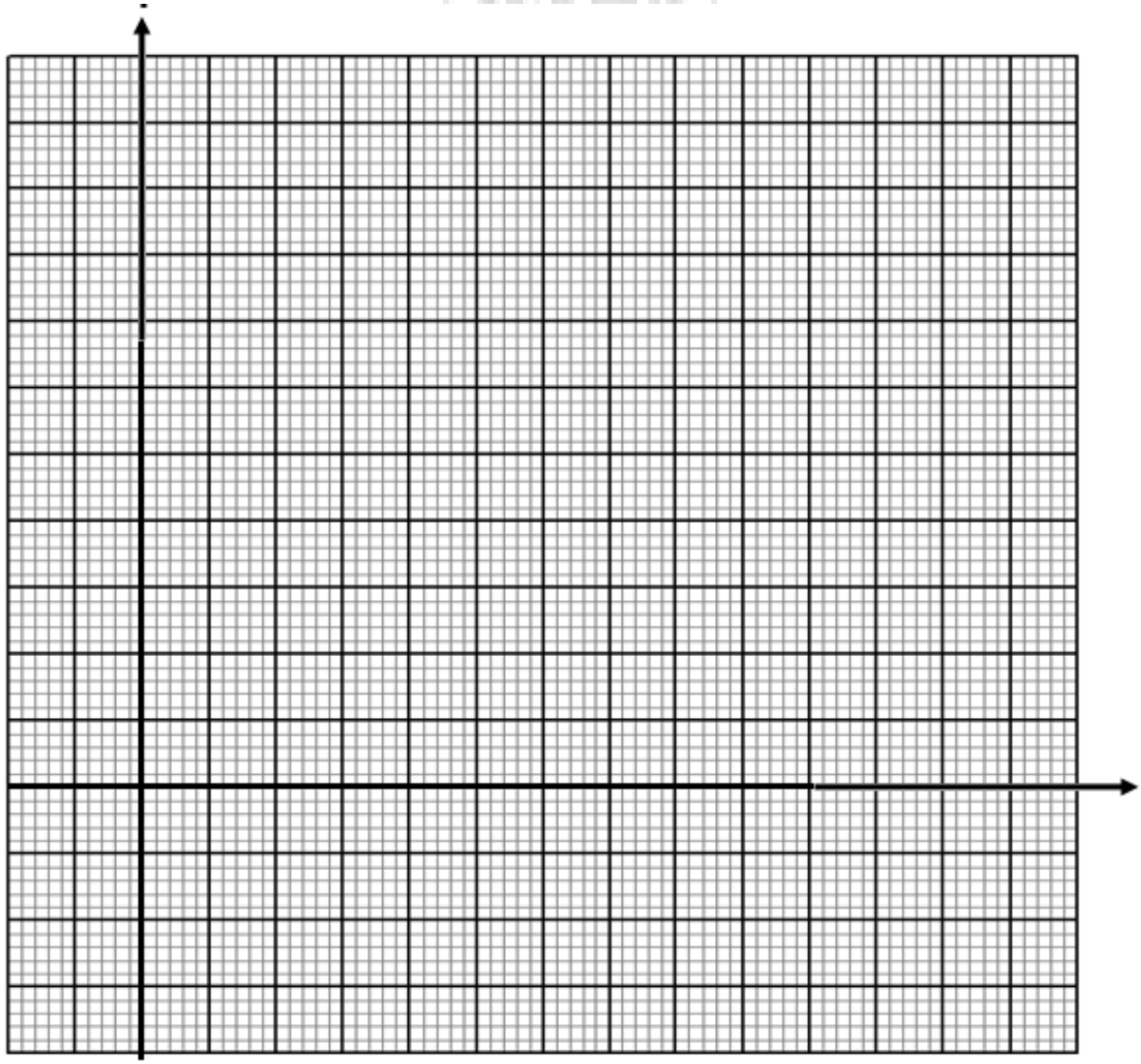
d) Find the maximum profit. **(1 mark)**

For Marking Schemes Contact 0746 222 000 / 0742 999 000

24. The table below gives values of P with corresponding values of G.

P	90.1	223.3	371.2	693.3	4450.1	11000
G	60	105	147	226	780	1500

a) Using the data from the table above, draw a suitable straight line graph given that P and G are connected by the equation $\log P = n\log G + \log K$ **(5 marks)**



b) Use the graph to determine:

i) The values of k and n **(3 marks)**

ii) The value of P when G is 113 **(1 mark)**

iii) The value of G when P is 400 **(1 mark)**

For Marking Schemes Contact 0746 222 000 / 0742 999 000

KCSE 2025 REVEALED EXAM

JOINT SERIES 1

451/1 **Computer Studies** Paper 1

Time: 2½ Hours

(THEORY)

NAME……

SCHOOL…… **SIGN**……

INDEX NO…… **ADM NO**……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

- *Write your Name and Index Number and Adm No in the spaces provided.*
- *This paper consists of TWO sections: A and B*
- *Answer **ALL** questions in section **A***
- *Answer question **16** and any other **THREE** questions from section **B***
- ***All** answers should be written in the spaces provided in the question paper*

For Examiners use only.

Section	Question	Candidates Score
A	1 – 15	
B	16	
	17	
	18	
	19	
	20	
Total Score		

SECTION A (40 marks)

Answer all the questions in this section.

1. Explain what is meant by the terms:- **(4 marks)**

i) FDD……

……

ii) HDD……

…

iii) CMOS……

……

iv) TFT……

……

2. Outline TWO application areas of Artificial Intelligence **(2 marks)**

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3. State TWO ways of identifying an illegal copy of an Operating System **(2 marks)**

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4. List any four publications that can be created using a Publishing application software **(2 marks)**

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5. Describe a speech synthesis system **(2 marks)**

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6. Find the Value of T_8 in the following binary equation: 110_{10}-AB_{16}=T_8 **(3 marks)**

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……

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7. State any TWO factors one would consider when selecting any data output device. **(2 marks)**

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……

8. Input devices can be categorized according to how they are used to enter data namely keying devices, pointing devices, scanning devices, speech recognition devices and other digital devices. Give TWO examples each of the following devices.

(i) Scanning devices. **(1 mark)**

a)……(b)……

(ii) Other digital devices. **(1 mark)**

a)……(b)……

(iii) Pointing devices. **(1 mark)**

a)……(b)……

9. Describe the following types of monitors **(3 marks)**

a) Cathode Ray Tube(CRT)

……

……

b) Liquid Crystal Display (LCD)

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c) Gas Plasma

……

……

10(a) State TWO functions of Read Only Memory (ROM) **(2 marks)**

……

……

(b) Give two characteristics of ROM **(2 marks)**

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……

11. Explain the meaning of the following system characteristics. **(2 marks)**

i) Entropy

……

……

ii) Controls

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……

12. Discuss TWO computational errors giving example in each case. **(4 marks)**

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13. Differentiate between WORM and a VIRUS. **(2 marks)**

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For Marking Schemes Contact 0746 222 000 / 0742 999 000

14. Differentiate sequential file organization from indexed sequential file organization. **(2 marks)**

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……

15. Give any THREE functions of the central processing unit (CPU) **(3 marks)**

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……

……

SECTION B (60 marks)

Answer questions 16(Compulsory) and any other three questions from this section.

16. a) Differentiate between Assembler and Interpreter as used in programming. **(2 marks)**

b) Give any THREE objectives that fourth génération programming languages were designed to meet**.** **(3mks)**

c) On the Nairobi-Nakuru highway, the Kenya Police have put speed cameras at a certain point to read the time a vehicle passes a point (A) on the road and then reads the time it passes a second point (B) on the same road. (Points A and B are 200 meters apart). The speed of the vehicle is calculated using:

- $\textbf{\textit{Speed}} = \frac{100}{(time\ at\ point\ B - time\ at\ point\ A)}$ ***(Km/ hr)***
- *The maximum allowed speed is 100 kilometers per hour.*
- *500 vehicles were monitored using these cameras over a 1-hour period.*

(i) Write a pseudo code, which: **(5 marks)**

- Inputs the start time and the end time for the 500 vehicles that were monitored
- Calculates the speed for each vehicle using the formula above.
- Outputs the speed for each vehicle and a message if the speed exceeded 100 km/hour.

>=100km/hr "High Speed"

<100km/hr "Normal Speed"

PSEUDO CODE

(i) Draw a flow chart for the above pseudo code. **(5 marks)**

17.(a) Distinguish between the following sets of terms as used in spreadsheets

(i) Worksheet and workbook. **(2 marks)**

(ii) Filtering and sorting. **(2 marks)**

(b) State one way in which a user may reverse the last action taken in a spreadsheet package.

(1mark)

(c)The following is a sample of a payroll. The worksheet row and column headings are marked 1,2,3…… and A,B,C……. respectively.

	A	B	C	D	E	F	G	H
1	**NAME**	**HOURS WORKED**	**PAY PER HOUR**	**BASIC PAY**	**ALLOWANCE**	**GROSS PAY**	**TAX DEDUCTION**	**NET PAY**
2	WAITHERA	21	750					
3	CHEPKOECH	28	850					
4	CHUMBA	14	550					
5	NKIROTE	20	1000					
6	NANA	23.5	250					
7	KIBET	25.5	500					
8	AUMA	14	250					
9	ATITWA	18	1500					
10	MOCHAMA	35	350					
TOTALS								

Use the following expressions to answer the questions that follow

- Basic pay = Hours worked x pay per hour
- Allowances are allocated at 10% of basic pay
- Gross pay = Basic pay + allowances
- Tax deductions are calculated at 20% of gross pay.
- Net pay = Gross pay – tax deductions.

Write formulae using cell references for the following cells:

(i) D2……**…..** **(1mark)**

(ii) E4……. **(1mark)**

(iii) F10……**…** **(1 mark)**

(iv) G7…… **(1 mark)**

(v) H5…… **(1 mark)**

d) (i) State THREE ways of moving round a page in Desktop Publishing window. **(3 marks)**

ii) State TWO ways on how Information and Communication Technology (ICT) has been used to reduce the spread of COVID 19 **(2 marks)**

18. a.(i) List down THREE advantages of ATM cards. **(3 marks)**

(ii) State FOUR components of an electronics Point of Sale. **(2 marks)**

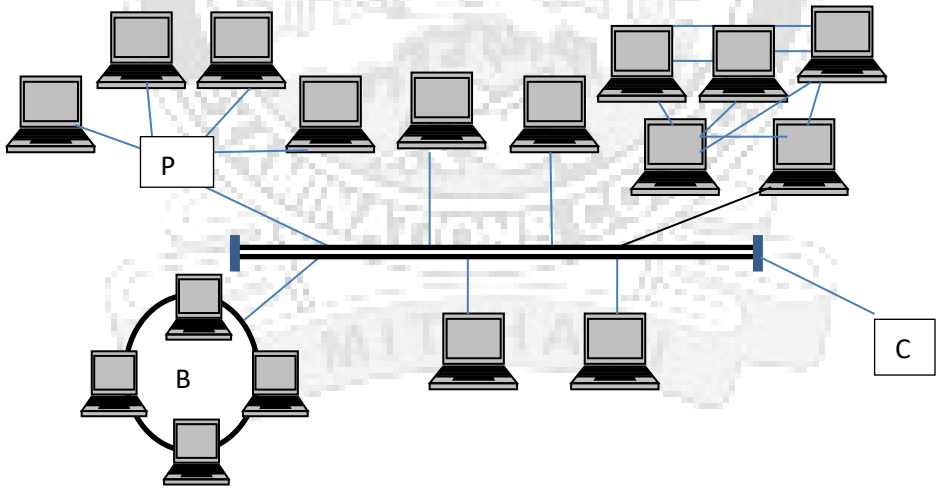
b. Give THREE reasons why a manager may prefer to teleconference during meetings. **(3 marks)**

c. Menengai Company would like to introduce use of a new information system. State THREE reasons why the company would like to introduce a new information system**?** **(3 marks)**

d. Once the whole system has been designed and constructed, it will need to be implemented. **Describe TWO** system changeover strategies that are likely to be used. **(4 marks)**

19.a) Explain why an intranet is more secure when sharing files within an organization compared to the internet. **(1 mark)**

b) The network setup below is formed by combining several LANS. Use it to answer the questions (i) – (v) below.



(i) Identify the network device P and C. **(1mark)**

(ii) State the importance of the network device P and C **(2 marks)**

(iii) What is the name given to the combined topology in figure above? **(1mark)**

(iv) Identify the network topologies used in the above diagram **(2marks)**

(v)**State TWO** disadvantages of topology connected to device P. **(2marks)**

c) A company has three branches M,N and O , where M is the headquarter. The local area network (LAN) at M is directly connected to LAN at N and directly connected to the LAN at O. **Explain two** benefits of having LAN at N also directly connected to the LAN at O. **(4 marks)**

d) The government of Kenya ordered all broadcasting TV stations to switch from analog transmission to digital TV transmission. **State two** benefits of digital transmission over analog transmission **(2 marks)**

20. a) Describe the following computer memories. **(2 marks)**

i. Register:

ii. Cache:

b. Explain Real-time Processing data processing mode giving TWO areas where it can be used. **(5 marks)**

c. Describe any TWO coding schemes used in Data representation **(4 marks)**

d. List FOUR devices controlled by the Operating System **(2 marks)**

e. Define a Laptop **(2 marks)**

KCSE 2025 REVEALED EXAM

JOINT SERIES 1

451/2 Computer Studies Paper 2

Time: 2½ Hours

(PRACTICAL)

NAME……

SCHOOL…… **SIGN**……

INDEX NO…… **ADM NO**……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

(a) Type your name and index number at the top right hand corner of each print out
(b) Write your name and index number on the CD-R / CD-RW provided
(c) Write the name and version of software used in each question on the answer sheet
*(d) Answer **ALL** the questions*
*(e) Passwords **should not be used** while saving in the CD-R*
*(f) All answers **MUST** be saved in the CD-R / CD-RW*
(g) Make print out of answers on the answer sheet provided

FOR EXAMINER'S USE ONLY

Question	Candidate's Score
1	
2	
Total Score	

For Marking Schemes Contact 0746 222 000 / 0742 999 000

1. The Judiciary Service Commission would like to conduct interviews on different shortlisted applicants.

Required.

(a) (i) Create the main document below as it appears and save it as **JLetter.** **(21 marks)**

JUDICIARY SERVICE COMMISSION,

P.O. BOX PRIVATE BAG-00100,

NAIROBI.

10th October, 2023.

<<First Name>> <<Second Name>>,

<<Postal Address>>,

<<City>>.

Dear <<Salutation>>,

RE: INVITATION TO AN INTERVIEW

This is to let you know that you have been shortlisted for an interview scheduled on <<date of visit>> at <<venue>> from <<Time>> for the <<Title>> position.

Please come with your:

(a) Original Identity Card

(b) Original Academic Certificates

(c) EACC Compliance Certificate

(d) Certificate of Good Conduct

(e) HELB Clearance Certificate

(f)KRA Compliance Certificate

A successful candidate will be entitled to the salary scales as shown in the table below:

TITLE	JOB GROUP	BASIC SALARY(KSH)
ICT OFFICE	TS III	102,050
CLERK	TS I	63,480
ACCOUNTANT	TS IV	90,345
TOTAL		255,875

We look forward to your attendance.

Yours sincerely

Chris Nyachoti.

Director

(ii) Proofread the document **(2 marks)**

(iii) Format 1.5 Line spacing in the body section **(2 marks)**

(b) Create a Data source below for the candidates and save it as **JRecipients** **(15 marks)**

First Name	Second Name	Postal Address	City	Salutation	Date Of Visit	Time	Venue	Title
Charles	Omukuba	P.O BOX 12	Busia	Sir	3rd November, 2023	11:00 am	Golf Club Hotel	ICT Officer
Grace	Kith	P.O BOX 102	Nairobi	Madam	2nd November, 2023	8:00 am	Serena Hotel	Clerk
John	Pilau	P.O BOX 38	Mombasa	Sir	4th November, 2023	9:00 am	Intercontinental hotel	Accountant
Peter	Gakere	P.O BOX 25	Laikipia	Sir	4th November, 2023	9:00 am	Intercontinental hotel	Accountant
Antony	Kipchoge	P.O BOX 57	Bomet	Sir	3rd November, 2023	11:00 am	Golf Club Hotel	ICT Officer
Gladys	Mutua	P.O BOX 27	Machakos	Madam	3rd November, 2023	11:00 am	Golf Club Hotel	ICT Officer
Gilbert	Muriithi	P.O BOX 18	Meru	Sir	2nd November, 2023	8:00 am	Serena Hotel	Clerk
Janet	Kati	P.O BOX 42	Turkana	Madam	4th November, 2023	9:00 am	Intercontinental hotel	Accountant

(c) Using mail merging, create a merged document and save it as **JSC_Merged**. **(4 marks)**

(d) Print the following documents

(e) **JLetter** **(2 marks)**

(f) **JRecipients** **(2 marks)**

(g) **Kith's and Kipchoge's letters only** **(2 marks)**

2. a) The MBORANU Hospital in your county would like to computerize their operations. They have consulted you to create a database and save it as **MBORANU Hospital.** **(2 marks)**

b) Create the two tables below with the shown fields. **(10 marks)**

(i) PatientsDetails Table

Field Name	Data Type	Field Size
PNO	Text	3
Patient Name	Text	30
Age	Number	Long integer
Residence	Text	15
City	Text	10
Gender	Text	2

(ii)MedicalRecords Table

Field name	Data type	Field size
PNO	Text	3
Doctor	Text	30
Diagnosis	Text	50
Treatment	Text	50
Bill Amount	currency	
Amount Paid	currency	

c) Set the Primary Key for each table **(2 marks)**

d) Using the appropriate fields create a relationship between the two tables. **(4 marks)**

e) Create forms for each table and save them appropriately. Use them to enter records into the respective table. **(10 marks)**

PatientsDetails Table

PNO	Patient Name	Age	Estate	City	Gender
001	John Kimanzi	19	Kinoo	Kiambu	M
002	Jane Wanjiru	37	Siaya	Kisumu	F
003	Jack Omondi	32	Mathare	Nairobi	M
004	Mary Kimani	42	Buruburu	Nairobi	F
005	Grace Banda	36	Donholm	Nairobi	F
006	Aaron Odhe	30	Mamba	Mombasa	M
007	Mary Otieno	29	Matuu	Kitui	F
008	Shah Vadgama	34	Parklands	Nairobi	M

MedicalRecords Table

PNO	Doctor	Diagnosis	Treatment	Bill	Amount Paid
003	Isaac Omondi	Malaria	Quinine	500	500
006	Grace Achuman	Depression	Antidepressants	2500	2000
004	Francis Kimani	Headache	Paracetamol	200	200
002	Alex Kioko	Appendicitis	Operation	10000	2000

f) Create a query to display:

i. All patients whose names end with letter **"i"**. Save the query as **Iquery** **(3 marks)**

ii. All patients whose age is above **30** and come from **Nairobi City.** Save the query as **Agequery** **(3 marks)**

g) Create a query to compute the balance of the bill amount and save it as **Balquery**(4 marks)

h) Create a report with the title "**2023 MBORANU PATIENTS REPORT**" used to display **PNO, Patient Name, Age, Doctor, Diagnosis, Treatment and Bill.** Save the report as **patients report** **(6 marks)**

i) Print

i. Patients_Details table **(2 marks)**

ii. Age query **(2 marks)**

iii. Patients report **(2 marks)**

KCSE 2025 REVEALED EXAM

JOINT SERIES 1

441/1 **Home Science** Paper 1

Time: 2½ Hours

(THEORY)

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 in the examination spaces provided above*
(c) *This paper consists of **three** sections: **A, B** and **C.***
(d) *Answer **all** questions in section **A** and **B** and any **two** from section **C.***
(e) *Answers to **all** the questions must be written in the spaces provided.*

FOR EXAMINER'S USE ONLY

Section	Question	Maximum Score	Candidate's Score
A	1-20	40	
B	21	20	
C	22-24	40	
Total score		100	

For Marking Schemes Contact 0746 222 000 / 0742 999 000

SECTION A(40 MARKS)

Answer all questions in this section

1. State two uses of eggs in flour mixtures. **(2 marks)**

……

……

2. Give two ways of preventing skin diseases. **(2 marks)**

……

……

3. State two disadvantages of traditional house designs. **(2 marks)**

……

……

4. State two qualities of travel wear. **(2 marks)**

……

……

5. Give the importance of calcium in expectant women. **(2 marks)**

……

……

……

6. Give two disadvantages of credit cards. **(2 marks)**

……

……

7. Give two reasons why babies fed on infant formula may suffer from diarrhea. **(2 marks)**

……

……

……

For Marking Schemes Contact 0746 222 000 / 0742 999 000

8. Identify two precautions to take when cleaning glass utensils. **(2 marks)**

……

……

……

9. State two advantages of convenience foods. **(2 marks)**

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10. Define ventilation. **(1 mark)**

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11. State two reasons for ironing clothes **(2 marks)**

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12. Mention two advantages of starching house hold articles. **(2 marks)**

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13. Name two vaccines that are given to a baby immediately after birth. **(2 marks)**

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14. Mention three areas/centres of work that make up the work triangle. **(3 marks)**

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15. Suggest two reasons for cleaning paraffin tank of a hurricane lamp occasionally**. (2 marks)**

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16. Differentiate between antiseptic liquid and disinfectant. **(2 marks)**

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17. Give two examples of self-neatening seams. **(2 marks)**

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18. State two reasons for including fruit salad in a meal. **(2 marks)**

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19. Give two uses of temporary stitches. **(2 marks)**

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20. List two points to consider when selecting a thimble. **(2 marks)**

……

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SECTION B (Compulsory)

21. You have been assigned some household chores by your mother.

Describe the procedure of carrying out the following tasks.

a) Making muddy contaminated water safe for drinking without using chlorine and storing it. **(8 marks)**

b) Dry cleaning and finishing polyester tie. **(6 marks)**

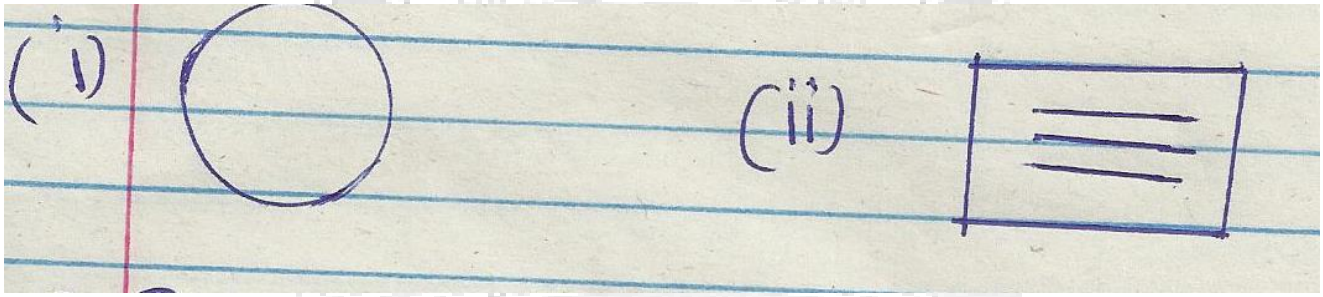
c) Cleaning a melamine cup. **(6 marks)**

SECTION C (40 Marks)

Answer any TWO questions from this section in the space provided.

22. a) State three laundry work processes that are harmful to woolen fibres and in each case state the harm caused. **(6 marks)**

b) Give the meaning of the following care symbols. **(2 marks)**



c) Outline the procedure of cleaning a kitchen refuse bin. **(6 marks)**

d) Suggest five factors to consider when shopping for goods and services**.** **(6 marks)**

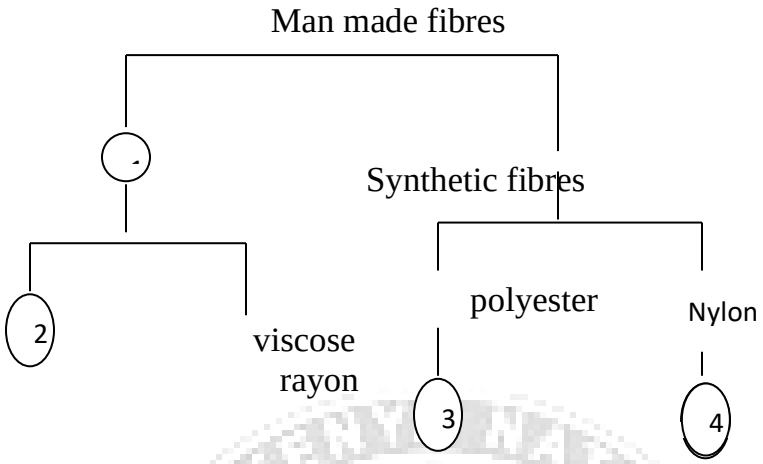
23. a) Explain five considerations to make when furnishing a sitting room. **(5 marks)**

b) Explain three nutritional needs of an adolescent. **(6 marks)**

c) Explain five preparations to make on a fabric before cutting out. **(5 marks**

d) Complete the following diagram on the classification of man made textile fibre**.(4 marks)**

(Indicate what the number given stands for)



24. a) State four ways of misusing medicine. **(4 marks)**

b) Giving reasons in each case, explain three changes that take place in dough during the frying of mandazi. **(6 marks)**

c) With the aid of two labeled diagrams, describe how to make an overlaid seam. **(7 marks)**

d) Name three nutritional disorders associated with lifestyle. **(3marks)**

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KCSE 2025 REVEALED EXAM

JOINT SERIES 1

441/2 Home Science Paper 2

Time: 2½ Hours

SCHOOL..... **SIGN**.....

Kenya Certificate of Secondary Education.

HOME SCIENCE PAPER 2 (441/2)

CONFIDENTIAL

Schools should provide the following materials;

1. Plain light weight cotton fabric 65cm by 90cm

2. Sewing thread to match the fabric.

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KCSE 2025 REVEALED EXAM

JOINT SERIES 1

441/2 Home Science Paper 2

Time: 2½ Hours

NAME……

SCHOOL…… **SIGN**……

INDEX NO…… **ADM NO**……

Kenya Certificate of Secondary Education.

441/2

HOME SCIENCE (CLOTHING AND CONSTRUCTION)

Paper 2

(PRACTICAL)

2 ½ hours

Instructions to the candidates.

1. *This paper contains 3 printed pages.*
2. *Candidates should check the question paper to ascertain that all pages are as printed as indicated and that no questions are missing.*

For Marking Schemes Contact 0746 222 000 / 0742 999 000

A pattern of a child's dress 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. Dress Back
B. Dress Front
C. Front Yoke
D. Sleeve
E. Sleeve Binding
F. Back Facing
G. Front Facing
2. Plain lightweight cotton fabric 65cm by 90cm wide.
3. Sewing thread to match the fabric.
4. One large envelope.

THE TEST

Using the materials provided, cut out and make the **RIGHT HALF** of a child's dress to show the following processes.

(a) Cutting out **($16^1/_2$mks)**

(b) Attaching the front yoke to the dress front using an overlaid seam. Neaten **half** of the seam using overcasting stitches; **(12mks)**

(c) Joining the shoulder seam using an open seam (**do not neaten**) **(4mks)**

(d) Joining of the side seam using an open seam; **(9mks)**

(e) Preparing and attaching the sleeve; **(27mks)**

(i) Making an inverted pleat

(ii) Joining the underarm seam using an open seam (**do not neaten**)

(iii) Attaching the binding and holding it using slip hemming (slip hem **half** the binding)

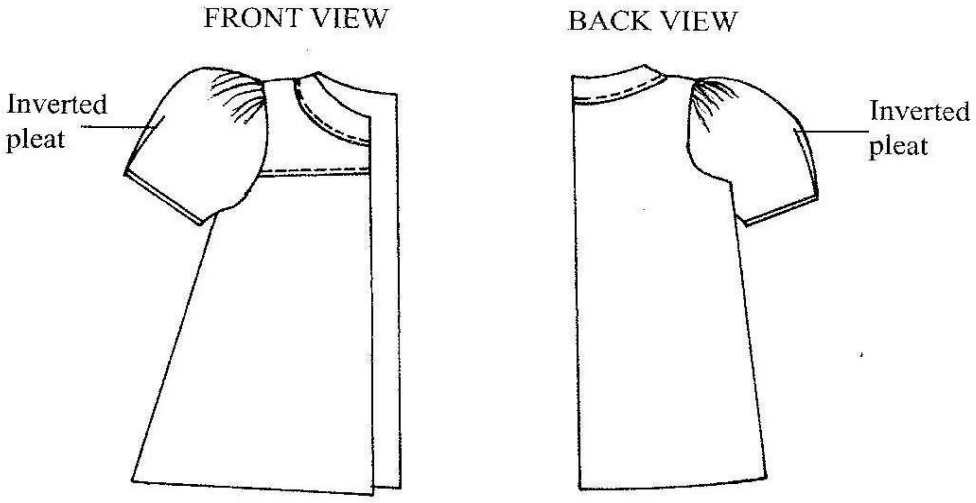
(iv) Attaching of the sleeve onto the garment (**do not trim or neaten**)

(f) Attaching the facing on the neckline. **(14mks)**

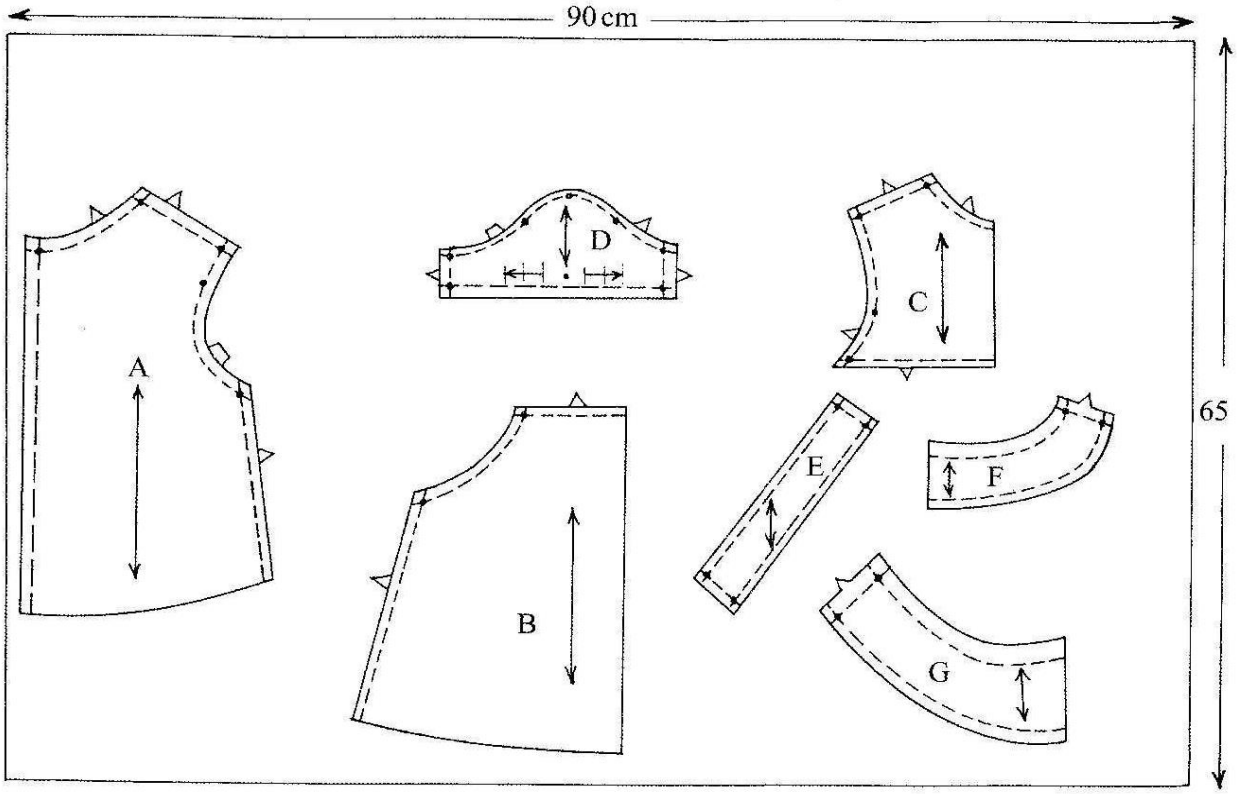
(g) Presentation **($7^1/_2$)**

(h) At the end of the examination, firmly sew on your work, a label bearing your name and index number. Remove needles and pins from your work then fold your work neatly and place it in an envelope provided. Do not put scraps of fabric in the envelope.

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THE LAYOUT (NOT DRAWN TO SCALE)



KCSE 2025 REVEALED EXAM

JOINT SERIES 1

441/3 Home Science Paper 3

Time: 1¾ Hours

NAME……

SCHOOL…… **SIGN**……

INDEX NO…… **ADM NO**……

Kenya Certificate of Secondary Education.

Practical session: 1¼ hours

Planning test session: 30 minutes

INSTRUCTIONS TO CANDIDATES

a) *Read the test carefully.*

b) *Write your name and index number on every sheet of paper used.*

c) *Textbooks and recipes may be used during the planning session as reference materials.*

d) *You will be expected to keep to 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) *You are not allowed to bring additional notes to the practical session.*

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THE TEST

You and your friend are on half term and are going for a picnic. Using the foodstuffs and ingredients listed below prepare cook and pack a one course meal for the two of you include a refreshing drink

Ingredients

- Tomatoes
- Dhania
- Rice/wheat flour/potatoes
- Spice of choice
- Onions
- Capsicum
- Sugar
- Pineapples
- Green leafy vegetables
- Garlic
- Beef/liver
- Salt
- Cooking oil

PLANNING SESSION: 30 MINUTES

Use separate sheets of paper for each task listed below and use carbon paper to make duplicate copies then proceed as follows;

(i) Identify the dishes and write down their recipes

(ii) Write down your order of work

(iii) Make a list of food 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

CALL/TEXT/WHATSAPP

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