CEKENAS CLUSTER 2026 KCSE MOCK

ALL SUBJECTS

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SUBJECTS TESTED;

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

CENTRAL KENYA

For Marking Schemes

Mr Isaboke 0746-222-000 / 0753-222-000

CENTRAL KENYA JOINT MOCK

CEKENAS CLUSTER 2026 KCSE MOCK

SERIES 2 EXAM TEST

CHRISTIAN RELIGIOUS EDUCATION

313/1

PAPER 1

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *Write your name; admission number; Index number; class and date in the spaces provided above.*

b) *This paper consists of six questions.*

c) *Answer any **FIVE** questions in the answer sheet provided*

d) *Each Question carries 20 marks*

FOR EXAMINER'S USE ONLY

Questions No.	1	2	3	4	5	6	GRAND TOTAL
Marks							

Answer Any Five Questions In This Paper.

1. a) Identify **Eight** creations that God made using the divine command '' let there be'' Genesis 1 **(8MKS)**

b) Explain the Biblical teaching on the origin of Sin in the World **(7MKS)**

c) Give **Five** reasons why Christians should forgive others **(5MKS)**

2. a) What was the importance of the covenant between God and Abraham **(7MKS)**

b) How did God show His Mercy to the Israelites during the exodus? **(7MKS)**

c) How do people break the commandment ''DO not Kill'' in the society today? **(6MKS)**

3. a) Outline **Seven** promises of God to David through prophet Nathan **(7MKS)**

b) Explain the factors that led to the contest between prophets of Baal at Mt. Camel **(7MKS)**

c) Give reasons why a leader may be rejected in the society today **(6MKS)**

4. a) Outline the importance of prophets in the nation of Israel. **(7MKS)**

b) Explain **seven** teachings of prophet Amos about the day of the Lord. **(7MKS)**

c) Explain how the church punishes errant members. **(6MKS)**

5. a) Explain the symbols used during the call of prophet Jeremiah. **(6 MKS)**

b) Outline the message of prophet Jeremiah in his letter to the exiles. (Jer 29:1 – 14) **(7 MKS)**

c) Explain ways in which Christians can avoid God's punishment today. **(7 MKS)**

6. a) Identify **Seven** factors that promote harmony and social responsibility in traditional African Communities. **(7 MKS)**

b) Mention **Seven** factors that influence the naming of children in African Traditional Society **(7MKS)**

c) Show how modern trends have affected burial rites in African Traditional Society. **(6MKS)**

For Marking Schemes Contact 0746-222-000 / 0753-222-000

CEKENAS CLUSTER 2026 KCSE MOCK

SERIES 2 EXAM TEST

CHRISTIAN RELIGIOUS EDUCATION

313/2

PAPER 2

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

1. *Write your name, school and index number in the spaces provided above.*
2. *Sign and write the date of the examination in the spaces provided above.*
3. *This paper consists of six questions.*
4. *Answer any **five** questions in the spaces provided.*
5. *Each question carries 20 marks.*
6. *Candidates should check to ensure that all pages are printed as indicated and no questions are missing.*

FOR EXAMINER'S USE ONLY

Question	1	2	3	4	5	6	Total score
Candidates' score							

For Marking Schemes Contact 0746-222-000 / 0753-222-000

Answer Any Five Questions In This Paper.

1.

a) Outline Micah's prophecy concerning the Messiah (Micah 5:2-5) **(7mks)**

b) Describe the annunciation of the birth of Jesus by Angel Gabriel as recorded in Luke 1:26 – 38 **(5mks)**

c) State five lessons Christians learn from the magnificat. **(5mks)**

2.

a) Explain the teachings of Jesus on the qualities of a true discipleship. (Luke 6:20- 49) **(8mks)**

b) Describe the incident in which Jesus forgave the sinful woman. (Luke 7:36—8:1-3) **(7mks)**

c) State five lessons Christians learn from the incident in which Jesus forgave a sinful woman. **(5mks)**

3.

a) With reference to the story of the rich man and Lazarus, explain the teachings of Jesus on the proper use of wealth Luke (16:19-31) **(8mks)**

b) Outline six signs of the end times as taught by Jesus in **(Luke 21:5-38)** **(6mks)**

c) Give seven ways in which Christians are preparing themselves for the second coming of Jesus Christ. **(7mks)**

4.

a) Identify eight characteristics of love as taught by Saint Paul in 1st Corinthians. **(8mks)**

b) Explain the unity of believers as expressed in the concept of the church (Ephesians 5:21-23) **(5mks)**

c) Identify seven factors that hinder effective cooperation among Christians' in Kenya today **(7mks)**

5.

a) Identify five sources of Christian Ethics. **(5mks)**

b) Give seven reasons why Christians in Kenya condemn homosexuality. **(7mks)**

c) Explain how responsible Parenthood is demonstrated by Christians in Kenya today. **(8mks)**

6.

a) Outline the Christian teachings on marriage. **(8mks)**

b) How should Christians prepare for marriage? **(6mks)**

c) Give reasons why some Christians break the marriage vows. **(6mks)**

For Marking Schemes Contact 0746-222-000 / 0753-222-000

CEKENAS CLUSTER 2026 KCSE MOCK

SERIES 2 EXAM TEST

HISTORY AND GOVERNMENT

311/1

PAPER 1

TIME: 2½ HOURS

NAME……

SCHOOL…… **SIGN**……

INDEX NO…… **ADM NO**……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

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

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

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

(d) *Answer ALL questions in section A (25 marks)*

(e) *Answer any THREE questions in section B (45 marks)*

(f) *Answer any TWO questions in section C (30 marks)*

FOR EXAMINER'S USE ONLY

SECTION	MAXIMUM SCORE	CANDIDATE'S SCORE
A	25	
B	45	
C	30	
TOTAL SCORE	100	

For Marking Schemes Contact 0746-222-000 / 0753-222-000

SECTION A. (25MKS)

Answer All Questions in This Section

1. Identify two written sources of information on Kenyan History. **(2mks)**

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2. Name one aspects of history that you have studied. **(1mks)**

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3. Give the main reason for the migration of Eastern Bantus from Shungwaya. **(1mk)**

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4. Identify two functions of the warriors among the Bantu communities in pre-colonial period. **(2mks)**

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5. Identify one reason that can lead to revocation of citizenship by birth in Kenya. **(1mk)**

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6. State ways in which the nation accord and reconciliation Act 2008 affected the composition of Government in Kenya. **(2mks)**

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7. Identify two types of democracy. **(2mks)**

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8. Give two social factors that led to the scramble and partition of East Africa. **2mks)**

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9. Give two methods which were used by the British to establish their rule in Kenya. **(2mks)**

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10. Give the name of the Wanga leader who collaborated with the British **(1mk)**

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11. Who was the British administrator in charge of the British Imperial East African Company **(1mk)**

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12. Give two objectives for establishing colonial health centres. **(2mks)**

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13. Identify the political party formed in 1960 to champion the interest of minority groups in Kenya**.** **(2mks)**

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14. Name the election body that organizes general elections in Kenya. **(2mks)**

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15. Give two types of elections held in Kenya. **(2mks)**

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16. Identify the main voting system used in Kenya during elections. **(1mk)**

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17. Who is the head of judiciary in Kenya. **(1mk)**

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SECTION B;- (45MKS)

Answer Any Three Questions From This Section

18. a) Give five reasons for the migration of the Luo in Kenya during the 19th century. **(5mks)**

b) Explain five effects of migration and settlement of the Luo into Kenya. **(10mks)**

19. a) State three reasons why Seyyid Said transferred his capital from Muscat to Zanzibar in 1840. **(3mks)**

b) Explain six factors which contributed to the development of trade between the Kenyan Coast and the outside world in the 16th century. **(12mks)**

20. a) State three powers given to Imperial British East African Company by the British. **(3mks)**

b) Explain the reason for an end to the Imperial British East Company rule in 1895. **(12mks)**

21. a) Give five early political organizations formed in Kenya upto 1935. **(5mks)**

b) Explain the problems experienced by European settlers in Kenya. **(10mks)**

SECTION C:- 30MKS)

Answer Any Two Questions from This Section

22. a) Give three levels of conflicts that can be experienced in Kenya. **(3mks)**

b) Explain six factors that promote National Unity in Kenya. **(12mks)**

23. a) State five Principles of Democracy. **(5mks)**

b) Explain Kenya's Constitutional Review process **(10mks)**

24. a) State five functions of returning officers in a general election in Kenya. **(5mks)**

b) Explain five factors which can interfere with free and fair elections in Kenya. **(10mks)**

For Marking Schemes Contact 0746-222-000 / 0753-222-000

CEKENAS CLUSTER 2026 KCSE MOCK

SERIES 2 EXAM TEST

HISTORY AND GOVERNMENT

311/2

PAPER 2

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

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

(b) *Answer **ALL** the questions in section A*

(c) *Three questions from section B and*

(d) *Two questions from section C.*

(e) *Answers to all questions **MUST** be written in the answer booklet provided*

FOR EXAMINER'S USE ONLY

SECTION	MAXIMUMSCORE	CANDIDATE'S SCORE
A	25	
B	45	
C	30	
TOTAL SCORE	100	

For Marking Schemes Contact 0746-222-000 / 0753-222-000

SECTION A (25 MARKS)

Answer all the questions in this section in the answer booklet provided.

1. State **two** reasons why the study of government is important **(2 marks)**

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2. Define the term 'pre-history' **(1 mark)**

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3. Name **two** economic activities of man in the pre-historic period **(2 marks)**

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4. Give **two** examples of tools made by middle stone age man **(2 marks)**

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5. Identify **one** factors that forced early man to change from hunting and gathering to food production **(1 marks)**

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6. Name **two** early centers of agriculture in the world. **(2 marks)**

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7. Name the type of writing invented by the early world. **(1 mark)**

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8. Give **two** advantages of money system in trade **(2 marks)**

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9. State **two** ways in which the industrial revolution in Europe promoted colonialism**(2 marks)**

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10. What was the **most** important symbol of unity among the Asante? **(1 mark)**

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11. Name **one** chartered companies which were used to administer European colonial possessions in Africa. **(2 marks)**

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

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

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14. Apart from Nigeria and Ghana, name other West African country which was ruled by Britain **(1 mark)**

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15. What is the **main** function of the security council of the UNO? **(1 mark)**

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16. Mention **one** method used by the international community to hasten independence in South Africa. **(1 mark)**

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17. Identify **one** types of democracy. **(1 mark)**

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SECTION B (45 MARKS)

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

18 a) State **three** roles played by the Tuaregs in the Trans-Saharan trade. **(3 marks)**

b) Explain **six** effects of the Trans-Saharan trade **(12 marks)**

19 a) Identify **three** ways in which trade contributed to the growth of Kingdoms in Africa in the 19th C. **(3 marks)**

b) Explain **six** factors that led to the rise and growth of the Buganda Kingdom.**(12 marks)**

20 a) Give **five** reasons why many developing countries have lagged behind in industrialization. **(5 marks)**

b) Explain **five** effects of the industrial Revolution in Europe. **(10 marks)**

21 a) Name **three** systems of colonial administration used by European powers in Africa.**(3mks)**

b) Discuss the difference between the British and French forms of administration in Africa. **(12 marks)**

SECTION C (30 MARKS)

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

22 a) State **three** reasons why the United States of America (USA) was reluctant to join the First World War during the initial stages. **(3 marks)**

b) Explain **six** results of the first world war **(12 marks)**

23 a) State **three** objectives of the Non –aligned movement **(3 marks)**

b) Explain **six** factors that undermined the activities of Non-aligned movement **(12 marks)**

24 a) Outline **three** functions of the East African community **(3 marks)**

b) Explain **six** problems which the East African Community faced upto 1977**(12 marks)**

CEKENAS CLUSTER 2026 KCSE MOCK

SERIES 2 EXAM TEST

GEOGRAPHY

312/1

PAPER 1

TIME: 2¾ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

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

(b) *This paper consists of two Sections; A and B.*

(c) *Answer aU the questions in Section A.*

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

FOR EXAMINER'S USE ONLY

Section	Question	Maximum score	Candidate's score
A	1-5	25	
B	6	25	
		25	
		25	
TOTAL SCORE			

For Marking Schemes Contact 0746-222-000 / 0753-222-000

SECTION A

Answer all questions in this section.

1. a) Explain the origin of the earth and the solar system according to the Nebula cloud theory. **(4mks)**

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b) Name **two** other theories that explain the origin of the earth and the solar system apart from the Nebula cloud theory. **(2mks)**

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2. a) List **two** zones of transition in the atmosphere. **(2mks)**

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b) Give **three** evidences that the interior of the earth is hotter. **(3mks)**

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3. a) Define the following terms.

i) River divide **(1mk)**

ii) A confluence **(1mk)**

iii) A river profile **(1mk)**

b) List **three** factors that influence the formation of a river. **(3mks)**

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4. How is an oasis formed? **(4mks)**

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5. List **four** characteristics of Mediterranean climate. **(4mks)**

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SECTION B

Answer questions six and any other two questions.

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

a i) Identify two types of scale used in the map (2mks)

ii) Name the map title **(1mk)**

iii) Give the longitudinal extend of the area of covered by the map **(2mks)**

b i) Identify three relief features found at grid square 0581 **(3mks)**

ii) Measure the length of the dry weather road D329 from the junction at Chebokokwa to the Northern edge of the map **(2mks)**

c)Explain how the following factors have influenced settlement in the area covered by the map

- Relief **(2mks)**
- Drainage **(2mks)**

- Transport **(2mks)**

d)Draw a rectangle measuring 16cm by 8cm to represent the area enclosed by Easting 89 and 05 and Northings 70 and 78. On the rectangle mark and name the following: **(1mk)**

- River Kerio **(1mk)**
- Lake Kamorock **(1mk)**
- Dry weather road **(1mk)**
- Papyrus swamp **(1mk)**

e) Citing evidence from the map give two economic activities carried out in the area covered by the map **(4mks)**

7. a) i) What is faulting? **(1mk)**

ii) With the use of a well labeled diagram explain how a reverse fault occurs. **(5mks)**

iii) State **two** other types of faults apart from reverse faults. **(2mks)**

b) Describe how a rift valley forms through tensional forces. **(4mks)**

c) Explain **three** ways in which features resulting from faulting are of economic importance to man. **(6mks)**

d) You intend to carry out a field study of the landforms around your school.

i) State **two** hypotheses you are likely to formulate for the study. **(2mks)**

ii) Apart from dividing your class into groups, in what three other ways will you prepare for the study. **(3mks)**

ii) In what **two** ways is dividing the class into groups important? **(2mks)**

8. a) i) Differentiate between intrazonal and azonal soils. **(2mks)**

ii) Give **three** examples of a zonal soils **(3mks)**

b) i) Explain **four** factors that influence soil formation. **(8mks)**

ii) Give **two** factors that determine the colour of soil **(2mks)**

c) i) What is soil erosion. **(2mks)**

ii) Explain **four** ways in which vegetation prevents soil erosion. **(8mks)**

9 a) i) Name a country in Africa where temperate grassland is found. **(1mk)**

ii) State **four** characteristics of temperate grasslands. **(4mks)**

b) i) Explain **four** ways trees in the coniferous forests have adapted to the environmental conditions of the region. **(8mks)**

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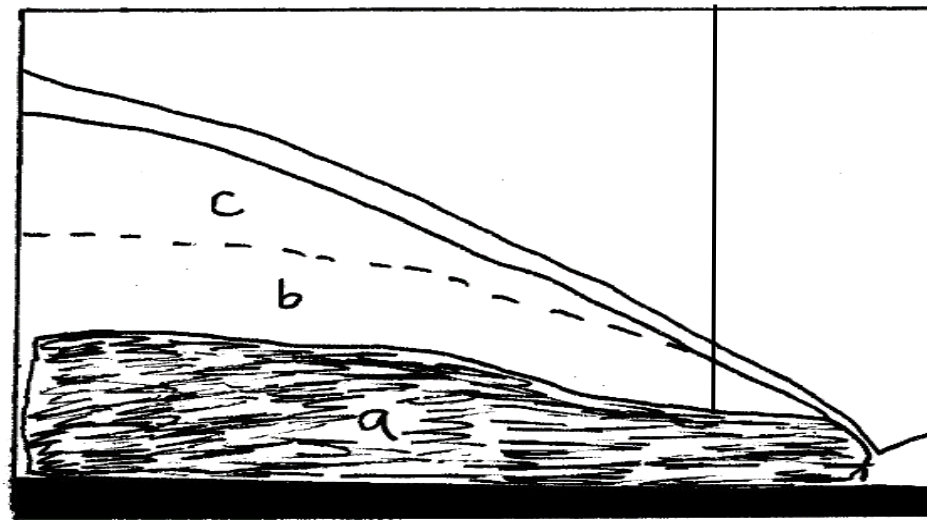
c) You are required to carry a field study on a forest near your school. Describe the methods you would use to determine each of the following aspects of the trees in the forest.

i) Age of the trees. **(3mks)**

ii) Height of the trees. **(3mks)**

iii) Tree species **(3mks)**

10. The figure below shows underground zones of saturation. Use it to answer question a (i)



a) i) Identify the zones marked a, b, and c. **(3mks)**

ii)Name **four** sources of groundwater. **(4mks)**

b) Explain **four** ways in which groundwater is of significance to human activities. **(8mks)**

c)i) Give **two** examples of lakes in East Africa that have formed due to crustal warping. **(2mks)**

ii) Describe how the process of crustal warping leads to formation of lakes. **(5mks)**

iii) State **three** other processes that lead to formation of lakes apart from crustal warping.**(3mks)**

For Marking Schemes Contact 0746-222-000 / 0753-222-000

CEKENAS CLUSTER 2026 KCSE MOCK

SERIES 2 EXAM TEST

GEOGRAPHY

312/2

PAPER 2

TIME: 2¾ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

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

(b) *This paper consists of two Sections; A and B.*

(c) *Answer aU the questions in Section A.*

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

FOR EXAMINER'S USE ONLY

Section	Question	Maximum score	Candidate's score
A	1-5	25	
B	6	25	
		25	
		25	
TOTAL SCORE			

For Marking Schemes Contact 0746-222-000 / 0753-222-000

SECTION A (25 marks)

Answer All the Questions in this Section

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

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2. b) State **three** forms in which minerals occur. **(3 marks)**

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3. a) Distinguish between forest and forestry. **(2 marks)**

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b) Show **three** factors that influence the distribution of forests. **(3 marks)**

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4. a) What is horticulture? **(2 marks**

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b) Give **three** economic factors that influence agricultural activities. **(3 marks)**

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5. a) Name two places where limestone are found in Kenya. **(2 marks)**

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For Marking Schemes Contact 0746-222-000 / 0753-222-000

b) List **three** uses of soda ash. **(3 marks)**

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6. a) What is a dead ground? **(2 marks)**

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b) Mention **three** uses of a photograph. **(3 marks)**

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SECTION B (75 marks)

Answer question 6 and any other two questions

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



(i) Identify the type of photograph shown above. **(1 mark)**

(ii) Describe the characteristics of the forest shown on the photograph. **(4 marks)**

(iii)Draw a rectangle measuring 15 cm by 10 cm. On it, sketch and label **five** main features shown on the photograph. **(5 marks)**

(a) (i) Name **two** indigenous softwood tree species in Kenya. **(2 marks)**

(ii) Explain **three** problems facing forestry in Kenya. **(6 marks)**

(iii)State **three** factors favoring the development of softwood forests in Canada. **(3 marks)**

(c) Give **four** differences between softwood forests in Kenya and Canada. **(4 marks)**

7. Study the table below and answer the questions that follow

Oil consumption in Kenya in the year 2010	
Economic sector	**Percentage of oil consumed**
Agriculture	4
Aviation	21
Commercial and Industry	22
Power	7
Rail	6
Road	30
Shipping	6
Others	4
Total	**100**

a) i) Draw a simple pie chart to represent the information above. **(6 marks)**

ii) What is the percentage of oil used in transport in the year 2010? **(2 marks)**

b) iii) Mention **two** demerits of using the method above to represent data. **(2 marks)**

c) i) List **three** countries where oil is produced in the Middle East. **(3 marks)** ii) Explain **three** contributions of oil in the economy of the countries in the Middle East **(6 marks)**

d) Describe how petroleum oil is formed. **(6 marks)**

8 a) Name **two** wheat growing counties in Kenya **(2 marks)**

b) State **five** conditions favoring wheat farming in Kenya. **(5 marks)**

c) Describe wheat farming from planting to harvesting stage. **(8 marks)**

d) Give **two** selling points of wheat in Kenya. **(2 marks)**

e) Compare wheat farming in Kenya and Canada. **(8 marks)**

9. a) Discuss nomadic pastoralism in Kenya under the following sub-headings

i) The cattle breeds kept [**2 marks**]

ii) The pattern of movement [**2 marks**]

iii) Marketing of the animals **(3marks**]

b) i) Give **three** reasons why nomadic pastoralists keep large heads of animals. **(3 marks)**

ii) Explain **four** measures taken by the government of Kenya to improve beef cattle farming. **(8 marks)**

c) Give **four** challenges facing nomadic pastoralism in Kenya **(4 marks)**

d) Name **three** indigenous breeds of dairy cattle reared in Kenya. **(3 marks)**

10.) a.) i.) Differentiate between land reclamation and land rehabilitation **(2 marks)**

ii) Identify three methods of land reclamation in Kenya **(3 marks)**

b) i.) State four physical factors that influenced the location of Mwea Tabere irrigation scheme **(4marks)**

ii.) Explain four problems facing Mwea Tabere irrigation scheme **(8 marks)**

c) i.) Outline the stages that were involved in the reclamation of land from the sea in Netherlands **(5marks)**

ii.) State three benefits of the of irrigation farming in Kenya **(3 marks)**

CEKENAS CLUSTER 2026 KCSE MOCK

SERIES 2 EXAM TEST

ENGLISH

101/1

PAPER 1

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *Write your name and index no. In the space provided.*

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

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

d) *All your answers must be written in the space provided.*

FOR EXAMINERS USE ONLY

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

FUNCTIONAL WRITING

For Marking Schemes Contact 0746-222-000 / 0753-222-000

1. You are the secretary of the **Young Youths Farmers Club** in your school. In consultation with the chair, you called a meeting for **22nd, January 2026,** at 3.00 pm. Out of a total membership of fifteen, ten attended, four absent with apologies, and one does not sent any apology**. (20marks)**

The following are the agenda.

1. Preliminaries
2. Confirmation of minutes of the previous meeting.
3. Matters arising
4. Negotiations with the bursar for the purchase of vegetables
5. Schedules for the harvesting of the vegetables
6. Formula for sharing the income
7. A.O.B

Record the minutes of the meeting, giving details of discussions and resolutions made.

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2. CLOZE TEST (10MARKS)

Read the passage below and fill in each blank space with the most appropriate word. (20marks)

Every year, the government ___1___ hundreds of millions of shillings in tax revenue ___. 2___ smuggling. Dumpling of sub-standard goods ___3___ counterfeit products poses another ___4___ threat ___5___ the stability of the economy. Local traders say smuggling ___6___ further fuelled be economic growth registered in the last two years. They attribute this ___7___ to rising demand for imported goods, especially electronic ___8___ cars and petroleum products. And while import volumes ___9___ - increased substantially in the past two years, facilities and equipment ___10___ the Kilindini harbour, Mombasa and Kenyatta international Airport (JKIA) overstretched.

3. Oral skills (30marks)

a) Read the following poem and answer the questions that follow.

The Seed Shop

Here in a quiet and dusty room they lie,
Faded as crumbled stone or shifting sand,
Forlorn as ashes, shriveled scentless dry,
Meadows and gardens running through my hand.

In this brown husk a dale of hawthorn dreams,
A cedar in this narrow cell is thrust,
That will drink deeply of century's streams,
These lilies shall make summer on my dust,

Here in their safe and simple house of death,
Sealed in their shells, a million roses leap,
Here I can blow a garden with my breath,
And in my hand a forest lie asleep.

QUESTIONS

i. Describe the rhyme scheme of the poem above. **(2 marks)**

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ii. What is the effect of the rhythm in the poem **(1marks)**

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iii. How else has the poet achieved the effect in(ii) above**?** **(4marks)**

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iv. Which words would you stress in the last line of stanza 1 and why**?** **(3marks)**

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b) For each of the set of words below, underline the odd one out. **(3marks)**

i. Cough Bought Dough

ii. Think Thy Thigh

iii. Not Note Knot

a) Provide another word that is pronounced the same way for each of the words listed below. **(3marks)**

i. Bean -

ii. Wear -

iii. One –

d) For each of these words make two sentences to bring the differences in their meaning. **(4marks)**

i. Beat

……

……

……

ii. Produce

……

……

……

e) Read the conversation below between Judy and a Peer Counselor and then answer the questions that follow. **(6marks)**

Peer counselor: *(Mentioning her to a sit?).* Hallo Judy. How are you getting on?

Please have a seat and don't be anxious.

Judy: Don't tell me it's all over school now. I will kill you...

Peer Counselor: (Interrupting) Please relax. Well, you swore me into secrecy and I have kept my part of the again. No cause of alarm.

Judy: So then, why do you want to see me? You mean it can show?

Peer Counselor: Calm down, you are just in early stages and please keep up appearances. The school closes next month.

Judy: (Looking disturbed). One month and the whole world will know. I need to procure...

Peer Counselor: Don't even go there.... will you be able to live with the guilt? Remember things can also go wrong and you die.

Judy: (Visibly agitated) Then, tell me what to do.

Peer Counselor: Please calm down. All is not lost. You just tripped; You never fell. These days Judy, girls are accepted back to school after giving birth so you need not worry. All will be fine. In the meantime, just relax for your baby.

Judy: (Sighs) Thank you for being there for me. Remember not a word to a sou.

Peer Counselor: You can trust me Judy, Good day.

Judy: Good day.

i. How does the peer counselor establish good rapport with Judy? **(2marks)**

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……

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ii. What good conversational skills does the peer counselor portray? **(2marks)**

……

……

……

iii. Identify two shortcomings in Judy's speech **(2marks)**

……

……

……

CEKENAS CLUSTER 2026 KCSE MOCK

SERIES 2 EXAM TEST

ENGLISH

(Comprehension, Literary Appreciation and Grammar)

101/2

PAPER 2

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

Instructions to Candidates.

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

b) *.Answer all questions in the spaces provided.*

c) *.Answer all questions in English.*

Question	Maximum score	Students score	Examiners initials
1	20		
2	25		
3	20		
4	15		
TOTAL	80		

1. COMPREHENSION (20 MARKS)

Read the passage below and answer the questions that follow.

Writing skills are an important part of communication. Good writing skills allow you to communicate your message with clarity and ease to a far larger audience than through face to face or telephone conversations.

You might be called upon to write a report, plan or strategy at work; write a grant appli8cation or press release within a volunteering role; or you may fancy communicating your ideas online via a blog. And, of course,a well written CV or resume with no spelling or grammatical mistakes is essential if you want a new job.

Today, when anyone can be their own publisher, we see more and more examples of poor writing skills both in print and on the web. Poor writing skills create first impressions and many readers will have an immediate negative reaction if they spot a spelling or grammatical mistake. As just one example, a spelling mistake on a commercial web page may cause potential customers to doubt the credibility of the web and the organization.

Correct grammar, punctuation and spelling are key in written communication. The reader will form an opinion of you, the author, based on both the content and presentation, and errors are likely to lead them to form a negative impression.

If you are unconvinced about the importance of accurate writing, think of the clues we use to identify spam emails, 'phishing' websites, and counterfeit products: poor grammar and spelling.

Similarly, some employers state publicly that any cv or resume containing spelling or grammatical mistakes will be rejected immediately, whilst a BBC news article quotes research that calculates spelling mistakes cost online businesses 'millions' in lost sales.

Checking for poor writing and spelling mistakes should be seen as a courtesy to your readers since it can take them much longer to understand the messages in your writing if they have to think and re-read text to decipher these.

All written communications should therefore be re-read before spending to print, or hitting the send button in the case of emails, as it is likely that there will be errors. Do not assume that spelling and grammar checkers will identify all mistakes as many incorrect words can indeed be spelt correctly (for example, when 'their' is used instead of 'there' or 'principle' instead of 'principal') or entire words may be missing. If at all possible, take a break before re-reading and checking your writing, as you are more likely to notice problems when you read it fresh.

Even if you know spelling and grammar rules, you should still double check your work or even better, have it proof-read by somebody else. Our brains work faster than our fingers can type the accidental typographical errors (typos) inevitably creep in.

The good news is that writing is a skill, which can be learned like any other. One trick for checking and improving your work is to read it aloud. Reading texts forces you to slow down and you may pick up problems with the flow that your eye would otherwise skip over.

As well as grammar, spelling and punctuation, it is important to remember your audience.

Always write with your audience in mind, and it can also help to bear in mind the medium in which you plan to publish. This knowledge will help you decide whether you need to write in a formal style or a more informal one, and will also help you to decide on a suitable structure.

QUESTIONS

1. Why are good writing skills important? **(3 marks)**

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2. What effect does poor writing skills have? **(2 marks)**

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3. In a paragraph of not more than 50 words, summarize the steps involved in good writing**.(5mks)**

ROUGH COPY

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FAIR COPY

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4. Explain the irony in paragraph three. **(3mks)**

……

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……

5.'The good news is that writing is a skill which can be learned like any other.'

Rewrite beginning with a participle **(1mk)**

……

6. Mention four things apart from grammar, spelling and punctuation that the writer advocates we should remember when writing. **(2mks)**

……

……

……

……

7. Explain the meaning of the following expressions as they are used in the passage. **(4mks)**

i) Counterfeit products ……

ii) Decipher ……..

iii) Phishing ……..

iv) Typographical errors ……

2. EXCERPT (25 Marks)

Read the following excerpt and answer the questions that follow.

"And young they'll still be untill the day I die,"Mr Walomu added. "Karanja, you know the saying: 'A real bull dies with green grass in its mouth."

Then why do you want to steal my wife? She is old. Not the green grass you want in your mouth.'

"l just told you why: Old is gold. Anyway, 'stealing' - to use your word - is not all that uncommon, you know. My Texas guy says thirty percent of the British 'steal' married spouses from their partners. Repeat: thirty percent! That is a lot of spouse stealers there, wouldn't you say?"

Professor Kimani refused to bite the man's bait. Still, the man continued. "Now take the Americans. Contrary to what everyone thinks, Karanja, Americans are not great spouse

stealers at all. They check in at a mere seventeen percent, way behind the British. In fact, to cut a long story short, only the Greeks are greater spouse stealers than the British. Boy, do the Greeks know this spouse stealing business! They come in at a whole forty percent."
The man was now toying with Professor Kimani.
Unable to tolerate it anymore, Professor Kimani moved to end it. "You, you, you greedy fat baboon!" he shouted, closing in.
The man stood up. "Stop where you are, Karanja!" he said.
Professor Kimani kept coming. When he was near enough, he swung a fist. He missed. "First you steal my wife," he said. He swung another. He missed again. "Now you mock me as well. "He swung yet another. This time, he lost his balance and fell.
Mr Walomu pounced at once. "Now you die, Karanja!" he said.
A clumsy scuffle, as between bull elephants, followed. It ended only when the police came and arrested the two angry men.
Professor Kimani was charged with assaulting a Member of Parliament. His university followed suit by demoting him from his current rank as full professor back to his starting rank as senior lecturer. This, it said, was his 'due punishment for disgracing the university in the eye of the Public. Six months of jail followed. Then he was set free. As he walked back to his house, dejectedly Putting foot ahead of foot, his career was all he could see. And it was

a)What happened immediately before this excerpt. **(2 marks)**

……

……

……

b)"And young they will be the day I die," who was walomu referring to? **(2 marks)**

……

……

……

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

……

……

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d)Identify and illustrate three styles used in this excerpt. **(6 marks)**

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e)Explain how each of the following character has been brought out in this excerpt**. (4 marks)**

(i)Newborn

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.....

(ii)Karanja

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.....

.....

f)Rewrite the following sentence in reported speech. **(1 mark)**

"Stop where you are, Karanja!" he said.

g)What happens immediately after this excerpt. **(2 marks)**

.....

.....

.....

h)Give the meaning of the following words as used in the excerpt. **(4 msks)**

(i)Tolerate

(ii)Scuffle

(iii)Pounced

(iv)Doomed

3. POETRY. (20 MARKS)

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

THE CROP THIEVES

Tswiris! tswiri! I the person I suspect?
What have you heard that makes you suspicious?
I heard things said, rumors of weaver birds;
They ate corns in Lesiba's field and finished it
And when they left they sounded hummmm-
They said, 'listen to the numerous weaver birds
Children of the horse that ate the courtyards and the times
It is the numerous weaver birds
The grey ones that go about in swarms
Children with the little red beaks
Children that make a noise in the mimosa trees
Tupu-tupu! The smoke comes out while the dew still glitters

Howaaa! Sweaaa! –is heard in the early morning
They are finishing the corn, the numerous weaver bird
Children with withered beaks
At home, it is yo! Yo!
Then children are crying
Their mothers have gone to the fields to the birds
It is the Zulus that have entered the country
Take axes and loop the tree branches
Yo! This year we shall eat fire
We shall lack even a blue tongued goat!
It is numerous weaver birds; the grey ones
That go about in swarms.

QUESTIONS.

a)What kind of oral poem is this? **2mks**

……

……

……

b) Explain two functions of the oral poem. **2mks**

……

……

……

……

c) Identify and illustrate two oral features of the poem **4mks**

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……

d) What does the poem tell us about the character trait of the weaver bird **2mks**

……

……

……

e)Which lines show that the people will keep on suffering if they do not keep the birds away.**2mks**

……

……

……

F) Identify and illustrate two economic activities practiced in this community **4mks**

……

……

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……

g) What is the attitude of the singer towards the weaver bird? **2mks**

……

……

h) Explain the meaning of the following lines. **2mks**

a) We shall lack even a blue tongued goat.

……

……

b) It is the Zulus that have entered the country.

……

……

GRAMMAR-15MKS

a) Rewrite the following sentences according to the instructions given without changing the meaning.3mks

i)Maria said the young men had stolen her sweet potatoes.(Rewrite beginning with: Maria accused**…….)**

……

……

ii) It required a lot of planning and great courage to introduce free primary education in Kenya.(Begin: The….)

……

……

iii) The judges declared that Cheptoo had won. (Finish:……..winner)

……

……

b**) Explain two different meanings of the following sentence. 2mks**

The chicken is ready to eat.

……

……

……

c**) Appropriately punctuate the following sentences to indicate parenthesis. 2mks**

i) When we meet next and I am not sure when a lot of things will have changed.

……

ii) Any information you have including minor details should be submitted to the office.

……

d) Fill in the blank spaces with the most appropriate preposition. (3 marks)

I) My classmate insisted ……..coming with me for the half term.

ii) The company was restrained from disposing…….its property by a court orders.

iii) The fire victims writhed …….terrible pain as the rescuers provided first aid.

e) Use the following word as a preposition in one sentence and the other sentence as a subordinating conjunction. 2mks

Since

……

……

……

f) Replace the underlined word with a phrasal verb. 2mks

I) The member of parliament <u>cancelled</u> the meeting. –

Ii) That child <u>resembles</u> her mother. –

g) Underline the adverbial clause in the following sentence. 1mk

They loaded the lorry while we waited.

CEKENAS CLUSTER 2026 KCSE MOCK

SERIES 2 EXAM TEST

ENGLISH

Creative Composition and Essays Based on Set Texts

101/3

PAPER 3

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

a) *Answer three questions only*

b) *Question 1 and 2 are compulsory*

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

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

e) *Each of your essays must not exceed 450 words.*

FOR EXAMINER'S USE ONLY.

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1	20	
2	20	
3	20	
TOTAL		

1. **IMAGINATIVE COMPOSITION (COMPULSORY) (20 marks)**

Either

Write a composition beginning: ***It all began like an uneventful day; yet how wrong I was!***

OR

b. Write a composition to illustrate the saying: ***When the deal is too good, think twice.***

2. The Compulsory Set Text (The Samaritan) (20 marks)

Citizens have a role of voting in men and women of honor. When they elect selfish leaders, they end up suffering. Write an essay to qualify this claim basing your illustrations on John Lara's The Samaritan.

OPTIONAL:

a) The short story: A silent song and other stories (Edited by Godwin Siundu)

When we carry ourselves with dignity, we earn respect from those around us. Drawing specific illustrations from pather's story, 'Ninema', write an essay to show the truth of this statement.

OR

b) Drama: Parliament of owls (Adipo Sidang)

In most African countries, misuse of authority is a wide spread occurrence. Validate this statement by focusing your argument on (Adipo Sidang's) play 'Parliament of owls'.

OR

c) The Novel: An Artist of the Floating World. (Kazuo Ishiguro).

"Drawing illustrations from the life of Masuji Ono in Ishiguro's An Artist of the Floating World, write an essay to show why mentorship is important in career development.

For Marking Schemes Contact 0746-222-000 / 0753-222-000

CEKENAS CLUSTER 2026 KCSE MOCK

SERIES 2 EXAM TEST

KISWAHILI

INSHA

102/1

PAPER 1

TIME: 1¾ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

MAAGIZO:

(a) *Andika insha* ***mbili****. Insha ya kwanza ni ya* ***lazima****.*

(b) *Kisha chagua insha moja nyingine kutoka kwa hizo tatu zilizobakia.*

(c) *Kila insha isipungue maneno 400.*

(d) *Kila insha ina alama 20.*

Kwa matumizi ya matahini pekee

Swali	Upeo	Alama
1	20	
2	20	
Jumla	40	

MASWALI

1. Umechaguliwa kuwa katibu wa **Chama cha Kiswahili** shuleni. Andaa kumbukumbu za mkutano uliofanyika hivi majuzi ili kupanga mikakati ya kukiendeleza Kiswahili ndani na nje ya shule yenu.

2. Vijana wa sasa wanakumbwa na changamoto nyingi za maisha. Thibitisha kauli hii huku ukieleza namna wanavyoweza kuzishughulikia.

3. Ngozi ivute ili maji.

4. Andika insha itakayomalizikia kwa kifungu hiki:-

…….. ndivyo wahenga kuwa aliye juu mngojee chini. Hii ni zamu yao sasa. Wamewadhulumu wanawake kwa miaka na miaka. Wacha wapate kichapo cha kisasi.

For Marking Schemes Contact 0746-222-000 / 0753-222-000

CEKENAS CLUSTER 2026 KCSE MOCK

SERIES 2 EXAM TEST

KISWAHILI

LUGHA

102/2

PAPER 2

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

MAAGIZO

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

b) *Tia sahihi 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) *Majibu yote **lazima** yaandikwe kwa Lugha ya **Kiswahili***

f) *Usitoe ukurusa wowote kutoka kwenye kijitabu hiki*

KWA MATUMIZI YA PEKEE

Swali	Upeo	Alama
1	15	
2	15	
3	40	
4	10	
Jumla	**80**	

For Marking Schemes Contact 0746-222-000 / 0753-222-000

1. UFAHAMU (ALAMA 15)

Soma taarifa ifuatayo kisha ujibu maswali yanayofuata

Wahenga walisema kutoa ni moyo usambe ni utajiri. Iwapo wangefufuka leo hii wangeongezea kuwa ujasiri ni moyo usiseme ni umri. Kauli hii kama ile ya kwanza imesheheni ujumbe muhimu. Katika jamii nyingi, mtoto haruhusiwi kukaa au kuzungumza mbele ya watu wazima. Akiwa wa kike ndiyo basi. Ni ajabu basi kwa mtoto wa kike kutoka jamii yenye imani kali za jadi zinazomdunisha mwanamke kuweza kupata tuzo yenye staha ya juu zaidi.

Malala Yousafzai alishinda Tuzo ya Nobel mwaka 2014 akiwa na umri wa miaka 17. Aliyeshinda naye tuzo hii adhimu ni Kailash Satyarthi. Kigoli huyu alituzwa tunu hii kwa kupigania haki za wasichana kupata Elimu nchini Pakistan. Harakati hizi hakuzianza juzi. Mwaka 2012 alipigwa risasi na mijibaba ya ugaidi ya kundi Fulani linaloegemea mrengo wa siasa kali kwa 'hatia' za kuwatetea mabanati. Inasemekana alishambuliwa alipokuwa akisafiri kwenye basi la shule. Kilichochochea mashambulizi ni tuhuma kuwa alikuwa ameanzisha jukwaa kwenye mtandao wa Shirika la Utangazaji la BBC alilokuwa akichangia maandishi alipokuwa na umri wa miaka 11. Maandishi yake yalikuwa na ujumbe wa kupinga juhudi za makundi Fulani kuwanyima wanawake Elimu.

Haikuwezekana hata baada ya kupona kurudi Pakistani. Alihamia Uingereza alipofadhiliwa na wahisani. Licha ya kuwa aliishi ugenini na bila aila yake mwana huyu hakupoteza makali ya ari yake ya kuendelea kutetea maslahi ya kielimu ya wenzake wa kike.

Yeye ndiye mwenye umri wa chini zaidi katika historia kupata tuzo hili. Baadhi ya wale walioshinda Nobel katika umri mkubwa ni Desmond Tutu, Nelson Mandela na Wangari Maathai. Kila mmoja wao alitambuliwa kwa sababu mahususi zinazohusu jitihada za kuboresha maisha ya wanajamii.

Njia nyingine kuu aliyoitumai Malala ni hotuba. Mwaka 2013 alihutubia Kongamano la Vijana la Umoja wa Mataifa katika hafla iliyoandaliwa kwa heshima yake. Aliwashangaza wengi kwa ufasaha na uweza wake wa kutongoa hoja. Kila mtu aliguswa na dhati ya kauli zake. Katibu Mkuu hakuwa na jingine ila kulipa kongamano hilo jina Malala. Mtoto huyu wa kimaskini alipewa taathima ambayo watu wachache sana wamepata kutunukiwa. Hii ni heshima inayotengewa marais na wafalme. Na wanapoipata huruhusiwa kuhutubia kwa dakika tano tu.

Mwaka 2014, viongozi wenye sifa za ubabe wa kuwabinya wapinzani wao lakini wameshindwa kuwaokoa wanyonge walipokuwa wakilaza damu, yeye alisafiri hadi Naijeria kudai kuachiliwa kwa wasichana 200 waliotekwa nyara na kundi haramu.

Katika hotuba iliyojaa hisia ambazo huhusishwa tu na akina mama wenye uzazi mkubwa aliyoitoa Naijeria , aliwaasa watoto wenzake wasimruhusu mtu yeyote awaambie kuwa wao ni wanyonge au hawana uwezo. Aliwanasihi kuwa wao sio wadhaifu kuliko wavulana na wasijione wanyonge kuliko watoto wa kitajiri wala wale wanaotoka nchi zenye uwezo mkubwa . Alihitimiza kuwa wao ndio watakaoijenga jamii na kuwa wana uwezo wa kuyaendesha mambo. Mshindi wa tuzo hii yenye thamani ya dola za kimarekani milioni moja ameitabaruku kwa watoto wenzake ulimwenguni. Bila shaka mwanzilishi wa tuzo ya Nobel ameguswa na tendo la mtoto huyu huko kuzimuni. Kama kumbukizi tunu hii hutolewa wakati wa kuadhimisha kifo cha Mwanaviwanda wa

Kiswidi aliyeasisi tuzo hii kufuatana na wosia wake mwaka 1895. Kama Alfred Noble mwenyewe, kwake Malala, ngwenje au darahimu si muhimu . Lililo muhimu ni ukombozi wa watoto na hasa wa kike kielimu. Malala bado anavaa mtandio wake huku akidhihirisha adabu na unyenyekevu wa kupigiwa mfano.

MASWALI

1. Eleza mtazamo wa jamii ya Malala kuhusu watoto wa kike. **(alam.2)**

……

……

……

2. Unafikiri Malala alistahili kutuzwa Tuzo ya Nobel? Toa sababu tatu. **(alama.3)**

……

……

……

……

3. Ni njia zipi alizozitumia Malala kutetea haki ya watoto wa kike kupata Elimu? **(alama 3)**

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4. Malala anawapa ushauri upi watoto wenzake? **(alama. 1)**

……

……

5. Kwa nini inasemekana kuwa Tuzo ya Nobel ina staha ya juu zaidi? **(alama.2)**

……

……

……

……

6. Andika kichwa kifaacho kwa kifungu hiki. **(alama.2)**

……

……

7. Eleza maana za maneno yafuatayo kama yalivyotumiwa katika taarifa: **(alama. 3)**

a) Tunu

……

……

b) Wahisani

……

……

c) Ubabe

……

……

2. UFUPISHO

Soma kifungu kifuatacho kisha ujibu maswali

Ukame ni tukio hatari la kimaumbile. Athari zake hutofautiana kutoka eneo moja hadi lingine. Kwa sababu hiyo, si rahisi kuielewa dhana ya ukame; kwa hakika si rasihi kuifafanua dhana hii. Katika eneo la Bali, kwa mfano, isiponyesha kwa muda wa siku sita wenyeji huchukulia hali hiyo kuwa ukame japo kiasi hicho cha mvua ni kikubwa mno ikilinganishwa na Libya ambayo hupata kiasi kidogo cha chini ya milimita 180 ya mvua kwa mwaka.

Katika hali ya kawaida ukame hutokana na kipindi kirefu cha uhaba wa mvua hasa katika mzima au zaidi. Uhaba huu wa mvua huweza kusababisha uhaba wa maji kwa shughuli, kundi au sekta Fulani. Shughuli za binadamu huweza kufanya hali ya ukame mbaya zaidi.Shughuli hizo ni pamoja na kilimo, unyunyiziaji maji na ukataji wa miti.

Ni vigumu kubaini wakati mahususi ambao ukame huanza kwa kipindi hicho cha ukosefu wa mvua huwa cha mfululizo, na eneo huendelea kupata mvua iliyopungua kwa miezi au hata miaka. Mimea hukauka na wanyama hufa kutokana na ukosefu wa maji. Ukame basi huwa hatari kwa maisha ya binadamu na viumbe wengine kwa kuwa huweza kusababisha njaa na kuyafanya maeneo kuwa majangwa.

Mbali na ukosefu wa mvua, ukame pia husababishwa na kiangazi. Kiangazi huongeza kiwango cha joto. Joto hilo hufanya maji yaliyohifadhiwa kuwa mvuke haraka, hivyo kiwango chake kupungua. Hali ya *el ninyo* pia husababisha ukame katika baadhi ya maeneo ambayo huwa hayana mvua. Upepo huivutia mvua mahali panaponyesha na kuliacha kame eneo ambalo halina

mvua ya aina hii. Hata katika maeneo yenye mvua ya *el ninyo* , kiangazi kikali huifuata na hivyo kusababisha ukame. Hali hii huitwa *la nina*. Mambo yanayotokana na mabadiliko ya hali ya anga ulimwenguni pia yanaweza kuchangia ya ukame. Ongezeko la joto duniani linafanya hali ya ukame kuwa mbaya zaidi.

Ukame una mdhara chungu nzima kwa binadamu. Madhara hayo huweza kuwa ya kiuchumi, kimazingira, kimazingira au hata kijamii. Ukame husababisha kupungua kwa mimea na mavuno. Huweza pia kutokea dhoruba za mchanga. Dhoruba hizi hutokea palipo na jangwa. Ukosefu wa maji ya kunyunyizia mimea husababisha njaa na magonjwa kama vile utapiamlo yanayotokana na ukosefu wa lishe bora. Makazi ya wanyama wanchi kavu na wale wa majini pia huathiriwa vibaya. Hali kadhalika, ukame husababisha uhamaji. Hii inamaanisha kuwa jamii huweza kutoka katika makazi asilia na wakati mwingine huweza hata kuwa wakimbizi.

Ukame husababisha ukosefu mkubwa wa maji. Ukosefu huu huwa na athari hasi kwa maendeleo ya viwanda kwa kuwa vingi huhitaji kiasi kikubwa cha maji. Juu ya hayo, maji huhitajika katika kuzalisha umeme. Umeme una matumizi mengi katika viwanda, nyumbani, afisini na hata hospitalini. Ukosefu wa umeme basi huwa ni tatizo kuu.

Aidha, ukame husababisha madhara mengi, binadamu wanaweza kujikinga kutokana na uhaba wa rasilimali za asili kama vile chakula na maji. Pia mioto mikubwa huweza kuenea haraka wakati wa ukame na hivyo kusababisha vifo vya binadamu na wanyama na uharibifu wa rasilimali nyingine.

Ingawa ukame husababisha madhara mengi, binadamu wanaweza kujikinga kutokana nao kwa kupunguza makali ya ukame. Jambo la kwanza wanaloweza kufanya binadamu ni kuhifadhi maji. Maji ya mvua yanafaa kuhifadhiwa katika mabwawa na mapipa. Haya yanaweza kutumiwa wakati wa ukame hasa katika kukuza mimea. Mkakati mwingine ni kutumia mbinu za kupunguza chumvi na kemikali nyingine zilizomo kwenye maji ya bahari ili yaweze kutumika katika unyunyiziaji wa mimea. Hili litapunguza tatizo la ukosefu wa chakula. Pia ni muhimu kufanya utafiti kuhusu hali ya anga ili kupanga na kuweka mikakati ifaayo kukabiliana na hali hiyo.

Ni muhimu kuwa na mipangilio mizuri ya matumizi ya ardhi. Mathalani upanzi wa mimea itakayozuia mmomonyoko wa udogo, kubadili aina ya mimea inayokuzwa sehemu fulani pamoja na upanzi wa mimea isiohitaji mvua nyingi katika kame ni hatua mwafaka. Aidha, ni vizuri kupunguza matumizi ya maji hasa katika mazingira ya nyumbani kwa mfano tunapofua na kuosha. Njia nyingine ya kukabiliana na tatizo hili ni kusafisha maji yaliyotumiwa ili kuyatumia tena.

(a) Kwa maneno **50**, eleza visababishi vya ukame kwa mujibu wa taarifa

(alama. 4; 1 ya mtiririko)

Matayarisho

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Nakala safi

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b) Fupisha ujumbe wa aya ya **tano** hadi **saba** kwa maneno 70. (alama. 6; 1 mtiririko)

Matayarisho

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Nakala Safi

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a) Eleza masuala ambayo mwandishi ameibua katika aya mbili za mwisho kwa maneno **60**.

(alama 5; 1 ya mtiririko)

Matayarisho

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Nakala safi

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3. SARUFI NA MATUMIZI YA LUGHA ALAMA 40

a) Andika maneno yenye miundo ifuatayo . **(alama.2**

i) Kipasuo ghuna cha midomoni, irabu ya chini, kati, kipasuo sighuna cha ufizi, irabu ya juu mbele.

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ii) Nazali ya ufizi, kipasuo ghuna cha kaakaa laini, irabu ya juu, nyuma, irabu ya nyuma wastani.

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b) Bainisha silabi zinazowekwa shadda katika maneno yafuatayo **(Alama. 1)**

i) Waliotusifia

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……

ii) Sherehekea

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c) Andika sentensi ifuata katika wingi. **(Alama.2)**

Wayo wa mguu wangu wa kulia umeungua

……

d) Geuza sentensi ifuatayo katika hali ya udogo. **(alama. 1)**

Njia hii yetu inapitiwa na mtu mnene

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……

e) Tunga sentensi moja yenye kivumishi cha pekee kinachoonyesha idadi jumla. **(alama.1**

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f) Andika upya sentensi zifuatazo kulingana na maagizo

i) Maafisa hao walipewa uhamisho. Maafisa wengine hawakupewa uhamisho

(unganisha kuunda sentensi ambatano) **(alama.2)**

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ii) Hadithi hiyo <u>ilitungwa</u> vizuri <u>ikawavutia</u> wengi

(badilisha vitenzi vilivyopigiwa mstari kuwa nomino) **(alama.2)**

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iii) Tunda halitaoshwa vyema. Tunda halitalika .

(unganisha kuwa sentensi moja kwa kutumia 'po') **(alama.2)**

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iv) Kengewa alitoa ahadi .Wengi waliiamini ahadi hiyo. (unganisha kuwa sentensi moja inayoanza kwa . Ahadi….) **(alama .2)**

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g) Tunga sentensi ya masharti inayoonyesha kwamba kitendo kilifanikiwa kutokana na kufanikiwa kwa kingine. **(alama. 2)**

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h) Tunga sentensi yenye kishazi kirejeshi ambacho ni kielezi. **(alama.2)**

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i) Ainisha maneno ya liyopigwa mstari katika sentensi ifuatayo. **(alama. 3)**

Mwenyewe hakuwa amekupa ruhusa kuitumia

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j) Akifisha sentensi ifuatayo.

Kiwango cha umasikini katika kaunti ya homabay kinasikitisha sana itabidi sote wakatizi wa hapa tujizatiti ili tutimize malengo ya millennia seneta mteule alituhimiza

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k) Andika maneno yenye mofimu zifuatazo. **(alama. 2)**

i) Umoja (ngeli ya u-i), mzizi, kiisho

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ii) Kikanushi, kiambishi ngeli (ki-vi, Umoja)

Mzizi, kauli tendeka, kiisho

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l) Tunga sentensi yenye muundo ufuatao. **(alama. 2)**

KN (N+RH) + KT (T+RE)

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m) Andika sentensi ifuatayo katika hali ya kukanusha . **(alama. 2)**

Ngoma hizo zilihifadhiwa ili ziuzwe mjini.

……

n) Andika sentensi ifuatao katika wakati uliopita hali ya mazoea. **(alama.2)**

Ekapolon atawashauri wanafunzi kuhusu umuhimu wa kufanya bidi

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o) Andika sentensi ifuatayo katika kauli ya kutendesha kwa kuzingatia maneno yaliyopigiwa mstari **(Alama. 2)**

Alimfanya mtoto <u>anywe</u> uji ukamfanya <u>ashibe.</u>

……

……

p) Tunga sentensi ukitumia mzizi, ingineo kumaanisha “mbali na”. **(Alama. 1)**

……

……

q) Hewala ni kwa kukubaliana na jambo, **……** .ni kwa kutoka kitu kinusurike, na**…….….**ni kwa aliyefanya vyema katika jambo. **(alama.1)**

r) Zito ni kwa jepesi, **……..**ni kwa choyo na, **……**ni kwa kali. **(alama.2)**

s) Andika visawe vya kauli zi zilizopigiwa mstari.

Atyang <u>alikumbwa</u> na matatizo mengi lakini <u>hakukata</u> tama.

4. ISIMU JAMII. **(Alama.10)**

Eleza sababu tano zinazowafunga watu kufanya makosa ya kisarufi katika mazungumzo.

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For Marking Schemes Contact 0746-222-000 / 0753-222-000

CEKENAS CLUSTER 2026 KCSE MOCK

SERIES 2 EXAM TEST

KISWAHILI

FASIHI

102/3

PAPER 3

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

MAAGIZO

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

b) *Jibu maswali manne pekee.*

c) *Swali la kwanza ni la Lazima.*

d) *Maswali haya mengine matatu yachaguliwe kutoka sehemu zilizobaki.*

e) *Usijibu maswali mawili kutoka sehemu moja.*

KWA MATUMIZI YA MTIHANI PEKEE

SWALI	UPEO	ALAMA
1	20	
2	20	
3	20	
4	20	
JUMLA	80	

For Marking Schemes Contact 0746-222-000 / 0753-222-000

SEHEMU YA A

FASIHI SIMULIZI

1. Lazima

Tumia kifungu kifuatacho kujibu maswali yanayofuata

a) Nyumbani mwetu mna papai lilioiva lakini siwezi kulichuma – ndugu wa kiume asimuoe nduguye wa kike.

I) Bainisha kipera kinachorejelewa **(Al 1).**

II) Andika shughuli moja ya Kijamii na moja ya Kiuchumi ambazo huendelezwa katika jamii ya utingo huu. **(Al 2)**

III) Eleza dhima nne za kipera kinachorejelewa katika jamii yako. **(Al 4)**

IV) Wewe ni mwasilishaji wa kipera hiki jukwani. Eleza mambo matano ambayo utazingatia katika uwasilishaji wako. **(Al 5)**

b) Fafanua majukumu yoyote manne ya nyimbo katika jamii. **(Al 8)**

SEHEMU B

TAMTHILIA YA BEMBEA YA MAISHA

2) Kwa kurejelea mifano mbalimbali thibitisha namna ndoa katika tamthilia ya **Bembea ya maisha** zimemulika uhalisia wa jamii za kiafrika. **(alama20)**

3) "Lakini nilivyosema, Mungu hamwachi mja wake.."

a) Eleza mutadha wa dondoo hili **(alama4)**

b) Tambua sifa tatu za msemewa **(alama3)**

c) Eleza umuhimu wa msemaji wa maneno haya katika kukuza vipengele vifuatavyo:

Ploti **(alama2)**

Maudhui **(alama4)**

d) Kwa kurejelea tamthilia nzima eleza ukweli wa kauli "Mungu hamwaachi mja wake." **(alama7)**

SEHEMU C

SEHEMU YA B: RIWAYA NGUU ZA JADI:

JIBU SWALI LA 4 AU 5

4. „„Mrima, dunia yote inajua aliyemsaliti Yesu Kristo. Unajua mtu huyo aliishia wapi?

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

b) Tambua mbinu mbili za kimtindo zinazojitokeza katika dondoo hili**.** **(alama 4)**

c) Fafanua namna wahusika walivyowaendea kinyume wenzao katika riwaya ya Nguu za Jadi. **(alama 12)**

3. Bainisha nguu mbalimbali zilizotinga maendeleo ya nchi ya Matuo kulingana na riwaya ya Nguu za Jadi. **(alama 20**

SEHEMU D
HADITHI FUPI - MAPAMBAZUKO YA MACHWEO

6) Fafanua changamoto wanazokumbana nazo waajiriwa katika hadithi **Harubu ya Maisha** **(alama 20)**

7) NDOA ni taasisi iliyokuzwa katika hadithi **fadhila za punda.** Fafanua **alama 20**

SEHEMU YA E

USHAIRI

8.Soma shairi kisha ujibu maswali

Ndugu ona mbwa yule, ambaye ananyekenya;
Yaone mabuu yale, ambayo yamchezeya;
Kuwa leo yuafile, mwili yanautaniya;
Jana awile jasiri!

Juzi shujaa awile, pasiwe kumfikiya;
Kwenye makani yale, alipojisururiya;
Leo kuwa yuafile, mainzi yamchekeya;
Jana awile Jasiri!

Mijino mikubwa ile, ambayo ‘mejitokeya;
Yali kiwaliza wale, karibu walosogeya;
Tena akibweka yule, waoga walijinyiga;
Jana awile jasiri!

Kamwe kuishi milele, kupe ukajinyonyeya;
Walo chini yako wale, muhali unawaziya;
Ameshindwa yule pale,sembuse wewe sikiya;
Jana awile jasiri!

Kama walo hai wale, yafaa kuzindukiya;
Ni dunia maji mle, muhimu kujiwaziya;
Wazipunguze kelele, na kwingi kujishauya;
Jana awile jasiri!

a) Fafanua ujumbe wa shairi hili **(Al 2)**

b) Eleza muundo wa shairi hili **(Al 5)**

c) Eleza toni ya shairi hili **(Al 2)**

d) Ainisha shairi hili kwa kuzingatia **(Al 3)**

- **i)** Ruwaza ya mistari
- **ii)** Ruwaza ya vipande
- **iii)** Ruwaza ya mizani

e) Eleza mbinu nne ambazo mshairi ametumia kutosheleza mahitaji ya kiarudhi **(Al 4)**
f) Bainisha sifa mbili za anayezungumziwa katika shairi hili **(Al 2)**
g) Eleza tamathali mbili za usemi zilizotumiwa katika shairi hili **(Al 2)**

Au

9.Soma shairi kisha ujibu maswali

Nizike Ningali Hai!: Hassam Muchai
Kipusa Binti Hamadi, siku n'takuwa kimba
Nizikwe Kifudifudi, na yoyo kuyumbayumba
Takuwa bure biladi, matozi ungayasomba
Nizike ningali hai, n'kifa hutonizika

Tena ningaumwa ungo, na mapumu kuugua
Lioze ini na nyongo, na pua zisipumua
Takuwa sina kinyongo, mradi nimeshatua
Nizike ningali hai, n'kifa hutonizika

Nizike sasa mwenzangu, nizike ningali hai
Singojee kufa kwangu, uanze kurairai
Kulilia kifo change, ni bure hakukufai
Nizike ningali hai, n'kifa hutonizika

Nikifa hutonizika, kimwana sanda nunua
Manukato ya kupaka, na nguo za kuanua
Nivishe sione shaka, Washindwe kupambanua
Nizike ningali hai, n'kifa hutonizika

Tena nikande misuli, nikande pande kwa pande
Siate kiwiliwili, shingo, miguu ikande
Umalizapo kiwiliwili, mwenzangu niende shonde
Nizike ningali hai, n'kifa hutonizika

a) Dhamira ya matunzi wa shairi hili ni gani? **(Al 2)**
b) Bainisha nafsineni katika shairi hili **(Al 2)**
c) Eleza toni ya shairi hili **(Al 2)**
d) Changanua muundo wa shairi hili **(Al 5)**
e) Fafanua maana ya kibwagizo cha shairi hili **(Al 2)**
f) Eleza mbinu nne ambazo mshairi ametumia kutosheleza mahitaji ya kiarudhi **(Al 4)**
g) Bainisha bahari ya shairi hili **(Al 3)**

CEKENAS CLUSTER 2026 KCSE MOCK

SERIES 2 EXAM TEST

BIOLOGY

231/1 (THEORY)

PAPER 1

TIME: 2 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 space provided above.*

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

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

d) *You may be penalized for wrong spelling especially technical terms.*

For Examiner's Use Only

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1-33	80	

For Marking Schemes Contact 0746-222-000 / 0753-222-000

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

1. Name the part of a flower that develops into:

[i] Seed **[1 mark]**

……

[ii] Fruit **[1 mark]**

……

2. State **two** ways in which floating leaves of aquatic plants are adapted to gaseous exchange.

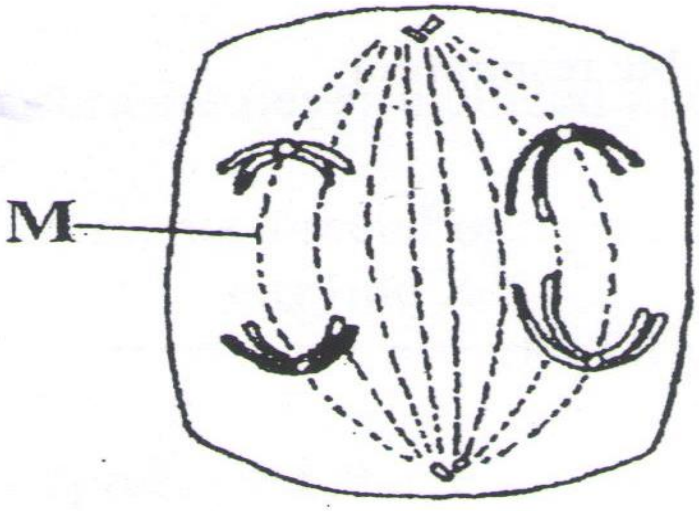
[2 marks]

……

……

……

3. The diagram below represents a stage during cell division



[a] [i] Identify the stage of cell division **[1 mark]**

……

[ii] Give **two** reasons for your answer in **[a] [i]** above **[2 marks]**

……

……

……

[b] Name the structure labeled M **[1 mark]**

……

4. [a] Distinguish between the terms **[2 marks]**

Homodont and heterodont

……

……

……

……

[b] What is the function of the carnassial teeth **[2 marks]**

……

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……

5. A patient with blood group A was involved in a road accident and required urgent blood transfusion. His relatives were invited to donate blood.

[a] Name the compatible blood groups **[2 marks]**

……

……

……

……

[b] State why other blood groups were not compatible **[2 marks]**

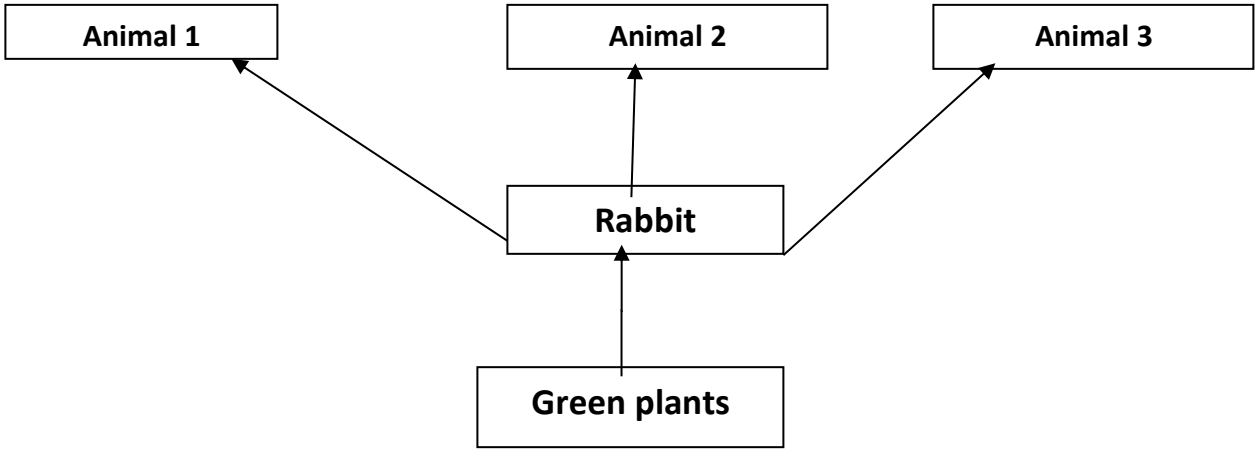
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6. The flow chart shows a part of a food relationship in an ecosystem



[a] [i] Name the food relationship shown **[1 mark]**

……

[ii] How many trophic levels are shown in the diagram **[1 mark]**

……

……

[b] What is the main source of energy in the ecosystem **[1 mark]**

……

7. Name the only epidermal cell in plants that contain chloroplast **[1 mark]**

……

8. The equation below represents a metabolic process that occurs in the mammalian lives

Amino Acids $\xrightarrow{\text{Enzyme x}}$ **organic compound**

[a] Name the process that represents the above equation **[1 mark]**

……

[b] Identify the enzyme represented by **X** **[1 mark]**

……

[c] What is the importance of the process to the mammal **[1 mark]**

……

……

9. [a] Name the carbohydrate that is stored in mammalian muscle **[1 mark]**

……

[b] What name is used to describe removal of indigestible and undigested food material from the alimentary canal **[1 mark]**

……

10. [a] Carl Linnaeus developed the taxonomic units of classification

[i] What is taxonomy **[1mark]**

……

……

[ii] Why was the system of classification by Carl Linnaeus described as natural system of classification **[2 marks]**

……

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……

11. Phagocytes also called granulocytes or polymorphs are cells found in the blood that ingest pathogens and cell debris

[i] Why are they called polymorphs. **[1 mark]**

……

……

[ii] Name the cell organelle most abundant in phagocytes that enable them function effectively. **[1 mark]**

……

12. Name the:

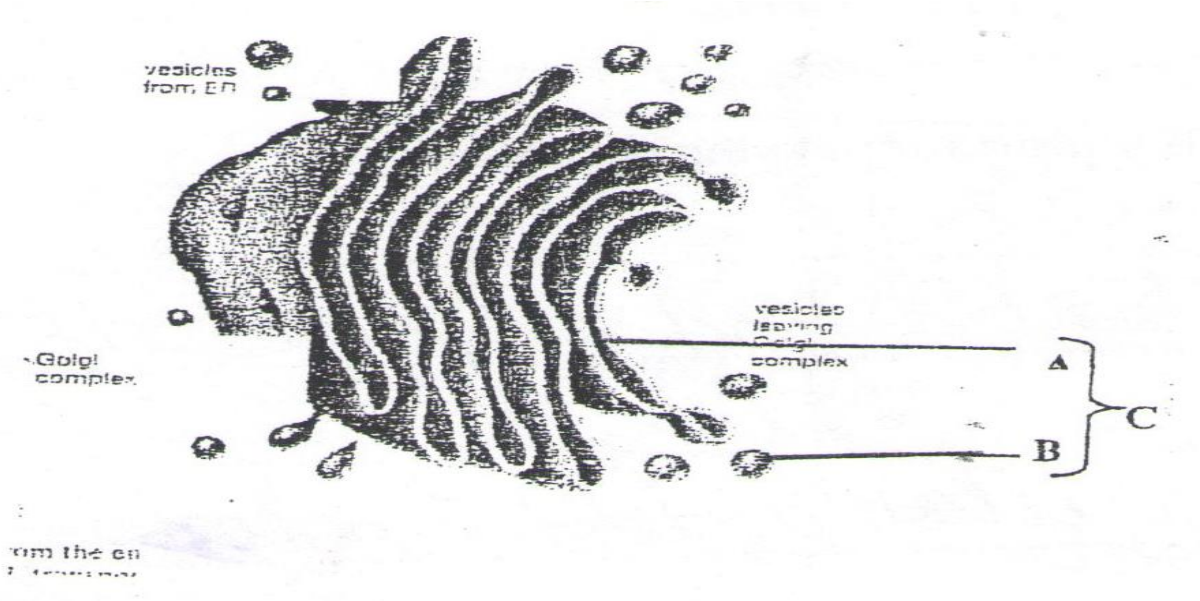
[a] Material that strengthens xylem tissue **[1 mark]**

……

[b] Tissue that is removed when the part of a plant is ringed **[1 mark]**

……

13. The diagram below represents a cell organelle.



[i] State the function of this organelle **[1 mark]**

……

……

[ii] Name each of the parts **A** and **B**

A …… **[1 mark]**

B …… **..[1 mark]**

14. In which two ways do guard cells differ from other epidermal cells **[2 marks]**

……

……

……

15. [a] Through cellular respiration, the chemical energy stored in glucose molecule is converted into which specific molecule **[3 marks]**

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.....

.....

[b] Name the substance that speed up biochemical reaction **[1 mark]**

.....

.....

16. During germination and early growth, the dry weight of endosperm decreases while that of embryo increase explain. **[2 marks]**

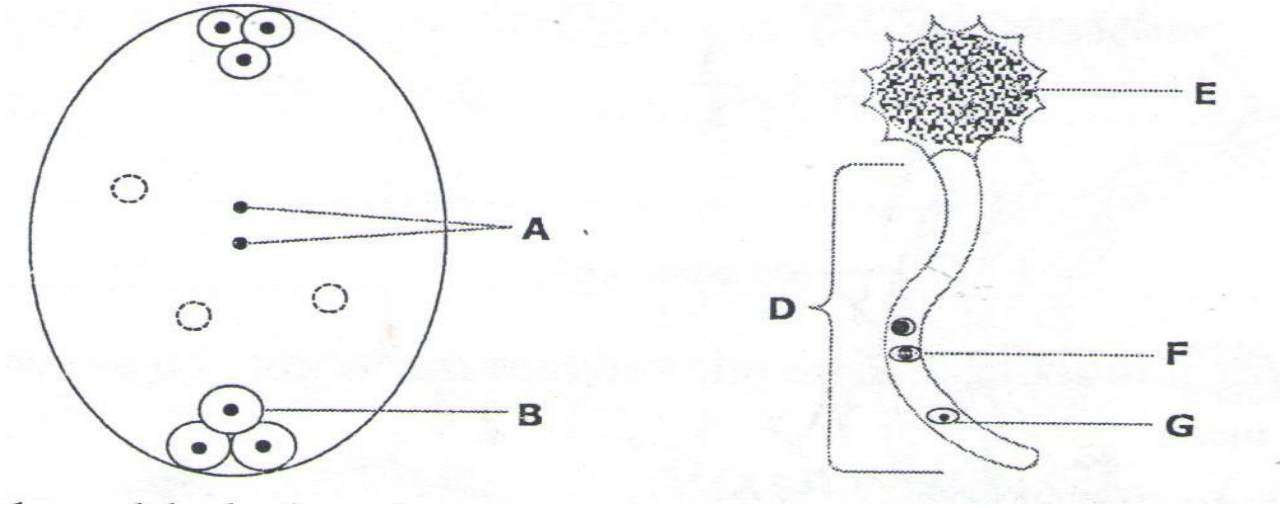
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17. The diagrams below show changes in the life cycle of flowering plants.



[i] Complete the table below by choosing the letters from the diagram which refers to each of the stages given. **[4 marks]**

STAGE OF LIFE CYCLE	LETTER
Male gametophyte	
Tube nucleus	
Female gamete	
Male gamete	

18. State **two** characteristics of kingdom Monera that are not found in other kingdoms. **[2 marks]**

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19.State **three** ways by which plants compensate for lack of the ability to move from one place to another. **[3 marks]**

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20. State **three** physiological processes that are involved in movements of substances across the cell membrane. **[3 marks]**

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21. If the human pancrease is not functional:

[a] Name the hormone which will be deficient. **[1 mark]**

……

[b] Name the disease the human is likely to suffer from. **[1 mark]**

.....

22. The oxidation state of a certain food is represented below by a chemical equation.

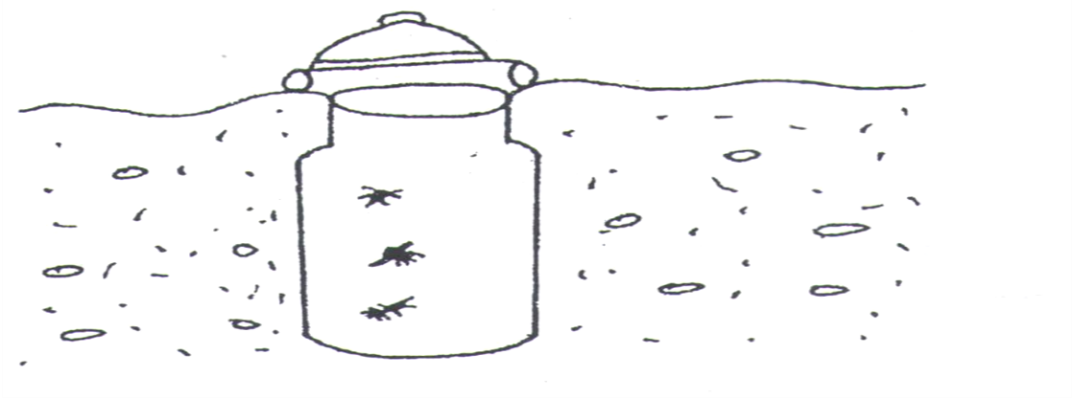
$2C_3H_2O_2N + 6O_2 \longrightarrow (NH_4)_2CO_2 + 5CO_2 + 5H_2O$

[a] Calculate the respiratory quotients [RQ] of the food substance. **[2 marks]**

[b] Identify the food substrate **[1 mark]**

.....

23. The diagram below shows an apparatus used during collection of specimen.



[a] Identify the apparatus **[1 mark]**

.....

[b] What is the use of the apparatus named above **[1 mark]**

.....

.....

24. State **two** physical factors in an ecosystem that affect the distribution of organisms. **[2 marks]**

.....

.....

25. A **DNA** strand has the following base sequence **G C C T A G A T C A C.**

What is the sequence of the

[i] Complementary DNA strand **[1 mark]**

……

[ii] M-RNA strand copied from this DNA strand . **[1 mark]**

……

26. State **three** limitations of fossil records as evidence of organic evolution **[3 marks]**

……

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27. Explain the term "**Resistance**" as used in evolution of living organisms **[2 marks]**

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28. State the function of the following parts of a light microscope .

[i] Body tube **[1 mark]**

……

……

[ii] Diaphragm **[1 mark]**

……

……

……

29. The table below shows analogies of gene mutations. **[3 marks]**

	Intended message	**Actual message**
A	Buy me a skirt	Buy me a shirt
B	This is my team	This is my mate
C	Auntie is staying	Auntie is straying

Identify the type of gene mutation illustrated

A ……

B……

C ……

30. State **two** sources of variations. **[2 marks]**

……

……

31. Name the diseases caused by each of the following **[2 marks]**

(a) *Plasmodium falciparum*

……

(b) *Entamoeba histolytica*

……

CEKENAS CLUSTER 2026 KCSE MOCK

SERIES 2 EXAM TEST

BIOLOGY

231/2 (THEORY)

PAPER 2

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

Instructions to Candidates

(a) *This paper consists of* ***two sections; A*** *and* ***B****.*

(b) *Answer* ***all*** *the questions in* ***section A*** *in the spaces provided after each question.*

(c) *In* ***section B answer question 6 (compulsory)*** *and* ***either question 7 or 8*** *in the spaces provided after* ***question 8****.*

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

FOR EXAMINER'S USE ONLY

SECTION	QUESTIONS	MAXIMUMSCORE	SCORE
A	1		
	2		
	3		
	4		
	5		
B	6		
	7		
	8		
TOTAL SCORE			

1. Study the table below and answer the questions that follow. Organisms A and B are of the same size.

FOOD SUBSTRATE	**Organism A**	**Organism B**
	Amount of energy produced in KJ/MOL	Amount of energy produced in KJ/MOL
Carbohydrates	2898	211
Fats	6478	375
Proteins	3750	222

a) Name the process that is responsible for the energy production in organism A. **(1mark)**

……

b) Account for the energy production in organisms A and B. **(2 marks)**

……

……

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c) State **two** reasons why fats are not the main food substrate in organism A. **(2 marks)**

……

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……

d) Explain how age affects energy production in organism A. **(2 marks)**

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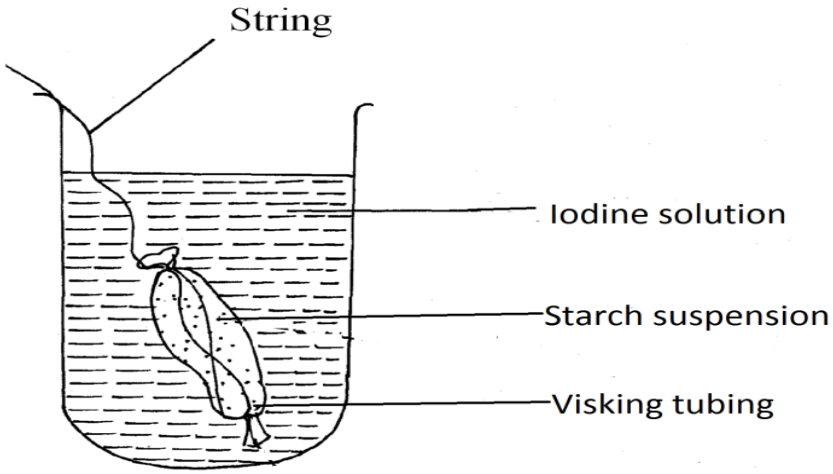
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e) State **one** economic importance of the process that occurs in organism B. **(1 mark)**

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……

2. An investigation was performed by a group of students as shown in the set up below.



After 30 minutes, the starch suspension had turned blue-black while iodine solution retained its colour.

(a) Name the physiological process that was being investigated in the experiment. **(1 mark)**

……

(b) Account for the results observed after 30 minutes. **(3 marks)**

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(c) Explain what would happen to a red blood cell when placed in distilled water and left to stand for the same duration as for the experiment above. **(3 marks)**

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(d) Define cell physiology. **(1 mark)**

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3 .In an investigation, equal amounts of water was placed in three test tubes A, B and C. Water plant of equal length were dropped in each test tube. The test tubes were then placed in identical conditions of light and carbon iv oxide at different temperatures for five minutes. After five minutes, the bubbles produced in each test tube were counted for two minutes .The results were recorded in the table below.

Test tube	Temperature (°C)	Number of bubbles
A	25	30
B	36	42
C	57	12

(a) (i) Name one requirement for this process that is not mentioned in the investigation.

(1mark)

……

(i) Name the gas produced in the investigation **(1mark)**

……

(ii) Account for the results in the test tube B and C **(2 marks)**

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(b) State **two** ways in which the human intestinal villus is adapted to its function. **(4 marks)**

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4. Sickle cell anaemia is a hereditary disease due to a recessive gene which changes normal haemoglobin (Hb – A) to abnormal haemoglobin (Hb – S). The red blood cells of people with sickle cell anaemia are sickle shaped.

(a) What are the possible phenotypes of the offspring of a man who is heterozygous and a woman who is also heterozygous? Show your working. **(5 marks)**

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(b) Sickle cell trait is more prevalent in tropical countries than in temperate countries. Give an explanation for this observation. **(2 marks)**

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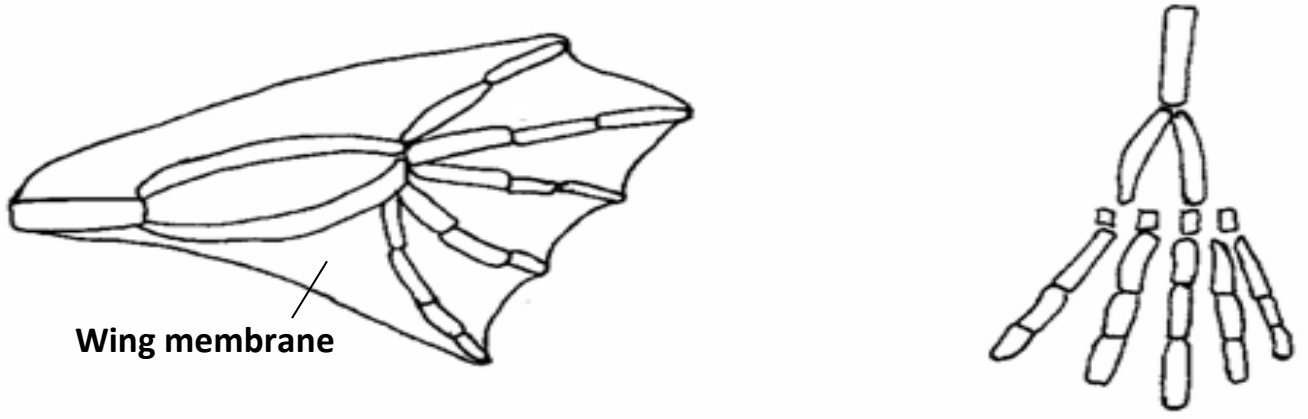
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(c) Define non-disjunction **(1 mark)**

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5. The diagram below shows structures of the bat wing and human arm.



(a) These structures are thought to have same ancestral origin. State one structural similarity and one adaptational difference between the two.

(i) Structural similarity. **(1 mark)**

……

……

(ii) Adaptation difference. **(2 marks)**

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……

(b) Give **two** other examples of structures in nature that show the type of evolution as in **(a)** above. **(2 marks)**

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(c) Distinguish between the terms 'chemical evolution' and 'organic evolution'. **(2 marks)**

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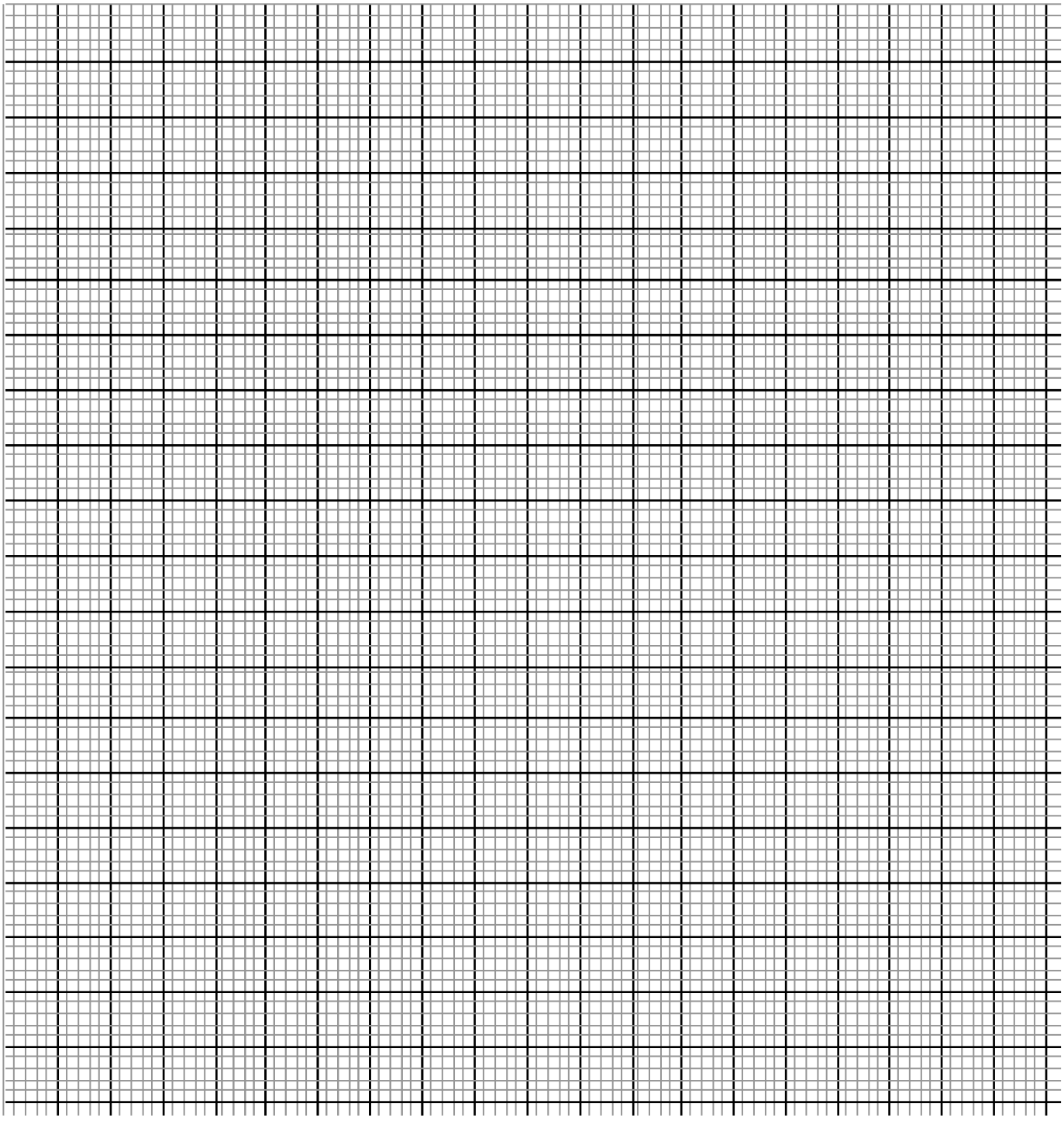
(d) What is the study of fossils called? **(1 mark)**

……

6. The table below shows how quantities of sweat and urine vary with external temperatures

External temperature (^{0}c)	Urine cm^3/h	Sweat cm^3/h
0	100	5
5	90	6
10	80	10
15	70	20
20	60	30
25	50	60
30	40	120
35	30	200

(a) Using the same axes, draw a graph of quantity of urine and sweat against the external temperature. **(7 marks)**



(b) (i) State the quantity of urine and sweat produced when external temperature was 12.5^0c.

(2 marks)

……

……

(ii) State the physical process through which the body was cooled by sweating as temperature was rising. **(1 mark)**

……

(iii) Account for the quantity of urine produced as the temperature increased. **(4 marks)**

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(c) State three nitrogenous wastes that could be eliminated in urine or sweat in human beings. **(3 marks)**

……

(d) State three behavioral mechanisms that poikilotherms use to regulate their body temperature under hot conditions. **(3 marks)**

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7. Describe how mammalian heart is adapted to its functions. **(20 marks)**

8. Giving examples, describe the following relationships among living organisms. **(20 marks)**

(i) Parasitism

(ii) predator-prey

(iii) Symbiosis

CEKENAS CLUSTER 2026 KCSE MOCK

SERIES 2 EXAM TEST

BIOLOGY

231/3 (PRACTICAL)

PAPER 3

TIME: 1¾ HOURS

SCHOOL…… SIGN……

Kenya Certificate of Secondary Education.

CONFIDENTIAL INSTRUCTIONS TO SCHOOLS

REQUIREMENTS

Each candidate will require;

(a) Specimen **R-** a piece of ripe pineapple fruit
(b) 2mls Benedict's solution placed in a test tube with a dropper
(c) 2mls of 10% Sodium hydroxide solution placed in a test tube with a dropper
(d) 2mls of 1% Copper sulphate solution placed in a test tube with a dropper
(e) Source of heat
(f) 4 test tubes in a rack
(g) 2 Droppers
(h) Scalpel/Razor blade
(i) Pestle and mortar
(j) Filter paper
(k) 4mls DCPIP solution placed in a small beaker with a dropper
(l) 4mls of 0.1% solution of Ascorbic acid supplied in a test tube
(m) White tile

For Marking Schemes Contact 0746-222-000 / 0753-222-000

CEKENAS CLUSTER 2026 KCSE MOCK

SERIES 2 EXAM TEST

BIOLOGY

231/3 (PRACTICAL)

PAPER 3

TIME: 1¾ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

(a) *Write your name, Admission number and your other details in the spaces provided above.*

(b) *Spend the first 15 minutes of the time allocated to read through the question paper before commencing your work*

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

(d) *Additional pages must **not** be inserted*

For Examiner's Use Only

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1	14	
2	14	
3	12	
Total Score	40	

For Marking Schemes Contact 0746-222-000 / 0753-222-000

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

1. You are provided with the following reagents and materials.

Specimen **R**

Benedict's solution

Sodium hydroxide solution

Copper sulphate solution

Source of heat

3 test tubes in a rack

Droppers

Scalpel/Razor blade

Pestle and mortar

Filter paper

Study the specimen **R** provided.

(a) Identify the type of fruit. **(1 mark)**

……

(b) With reasons, identify the method of dispersal for the specimen.

Method of dispersal **(1 mark)**

……

Reasons **(2 marks)**

……

……

……

(c) By use of the scalpel provided, peel off the outer cover of the specimen **R** to reveal the inner juicy part. Extract a small portion of the juicy part, place in a mortar and mash it using a pestle. Use the filter paper provided to filter the extract from the specimen R.

Divide the extract from specimen **R** into two portions each $2cm^3$ and use them as follows;

Portion one

Use the reagents provided to test for the food substances present in portion **1**. Use the table below as a guide. **(6 marks)**

FOOD SUBSTANCE	PROCEDURE	OBSERVATION	CONCLUSION

PORTION TWO

(d) (i) To 1cm^3 of DCPIP in a test tube, add 0.1% solution of Ascorbic acid drop by drop until the colour of DCPIP disappears. Shake the test tube after addition of each drop. Record the number of droplets used. **(1 mark)**

……

……

ii) To another 1cm^3 of DCPIP in a test tube add the **portion two** drop by drop, shaking the test tube after addition of each drop until the colour of DCPIP disappears. Record the number of drops used ……

(1 mark)

iii) From the results obtained in (d) (i) and (ii) above, calculate the percentage of Ascorbic acid in the juice obtained from specimen **R**. Show your working **(2 marks)**

……

……

……

2. Study the photographs below and answer the questions that follow.



(a) (i) By use of a flow chart, show the possible energy flow in the ecosystem above**.(1 mark)**

(ii) State **two** ways in which energy is lost from one trophic level to the next one. **(2 marks)**

……

……

(b) With **observable reasons**, identify the classes of specimen **X** and **Z**

Specimen **X**

Class …… **(1 mark)**

Reasons **(2 marks)**

……

……

……

Specimen **Z**

Class **(1 mark)**

……

Reason **(1 mark)**

……

……

(c) Describe **two** adaptations of organism labeled **Y** to its habitat. **(2 marks)**



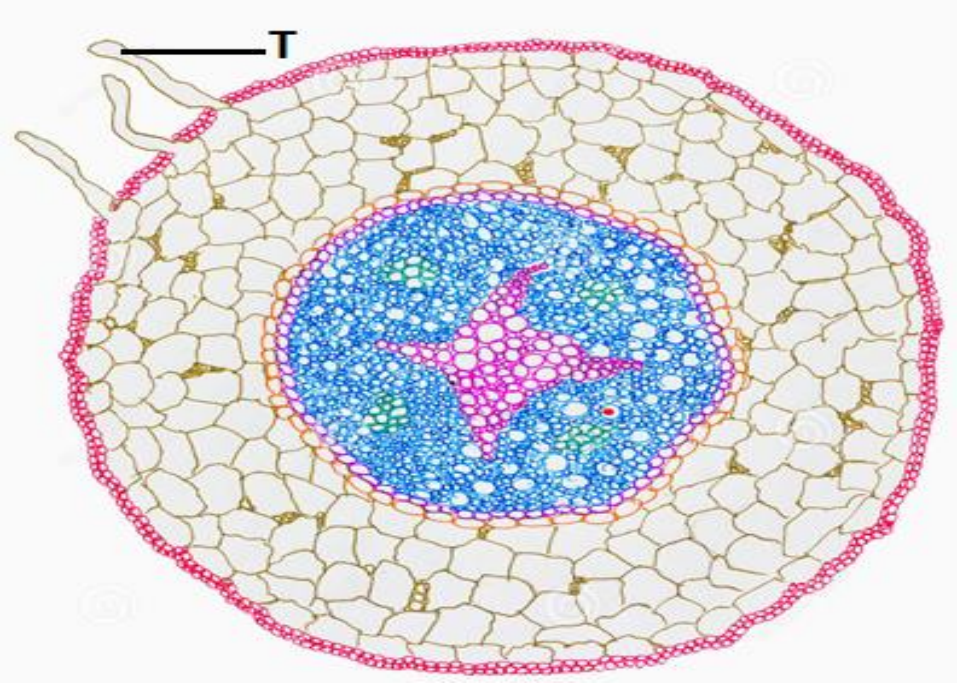
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(d) Study the photograph below and answer the questions that follow.



(i) Which part of the plant is represented by the cross-section shown above **(1 mark)**

……

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

……

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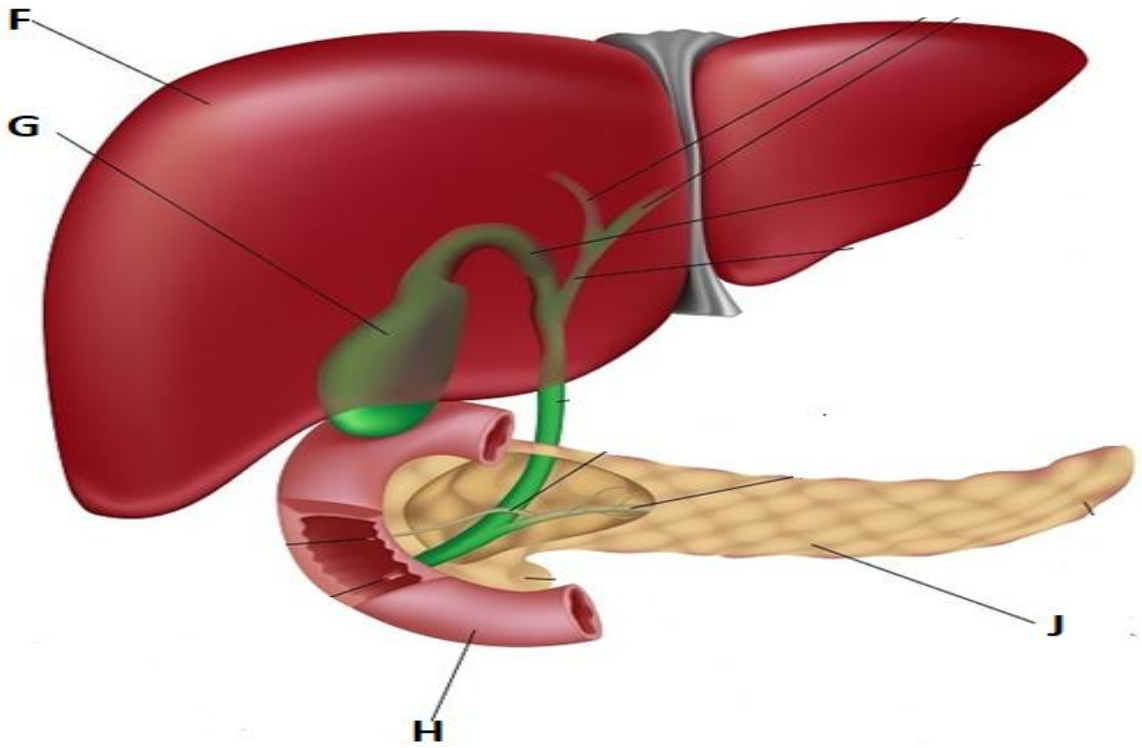
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(iii) Give **one** adaptation of the part labeled **T** to its function. **(1 mark)**

……

……

3. Study the photographs below and answer the questions that follow.



(a) Identify the following parts **(2 marks)**

F ……

G ……

(b) (i) Identify the secretions stored in part labeled **G** **(1 mark)**

……

(ii) Give **two** functions of the secretions you have identified in (b)(i) above . **(2 marks)**

……

……

(c) (i) Give **two** major roles of the part labeled **J** . **(2 marks)**

……

……

(d) (ii) State the hormone secreted by the part labeled **H**. **(1 mark)**

……

(e) Study the photograph below and answer the questions that follow.



(f) (i) Identify the following parts. **(2 marks)**

K ……

L ……

(ii) Give **two** adaptations of the part labeled **M** **(2 marks)**

……

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CEKENAS CLUSTER 2026 KCSE MOCK

SERIES 2 EXAM TEST

CHEMISTRY

233/1 (THEORY)

PAPER 1

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

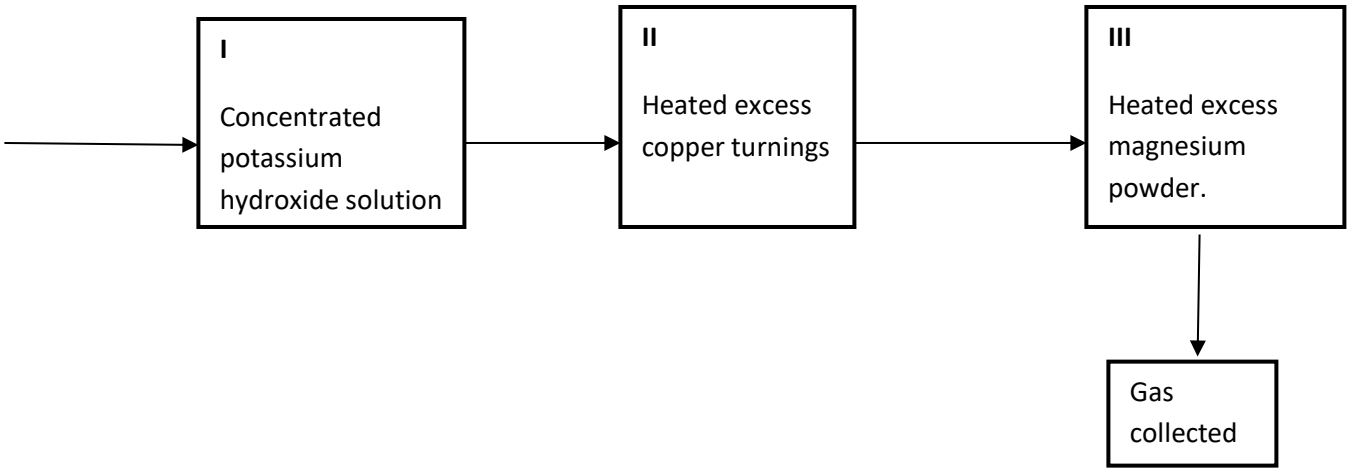
- *Write your **name** and **index number** in the spaces provided above.*
- ***Sign and write the date of examination in the spaces provided above.***
- *Answer **ALL** the questions in the spaces provided.*
- ***Mathematical tables and electronic calculators may be used.***
- *All working **MUST** be clearly shown where necessary.*

FOR EXAMINERS USE ONLY

QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
1 – 31	80	

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

1. Air passed through several reagents as shown below



a) What is the role of conc potassium hydroxide? **(1mk)**

……

……

b) Write an equation that takes place in step III with Magnesium powder. **(1mk)**

……

……

c) Name one gas that was collected from the process. **(1mk)**

……

2. Name two examples of physical changes. **(2mks)**

3. A gas at 27^0C and 750mmHg pressure was found to occupy 360cm^3. Calculate the temperature at which the same mass of gas will occupy twice the volume at a pressure of 1000mmHg.

(2mks)

4. a) In the equation below, identify the reagent that acts as a base. **(1mk)**

$$H_2O_{2(aq)} + H_2O_{(l)} \rightleftharpoons H_3O^+_{(aq)} + HO_2^-{}_{(aq)}$$

b) Give a reason for your answer in (a) above **(1mk)**

……

……

5. a) When left in the open air, anhydrous calcium chloride increases in mass. Explain **(1mk)**

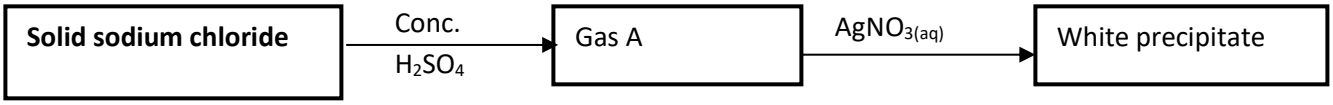
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b) What name is given to the process in a above? **(1mk)**

……

6. Study the chart below and answer the questions that follow.



a) Identify

i) Gas A **(1mk)**

……

ii) White precipitate. **(1mk)**

……

b) Write an ionic equation for the formation of white precipitate. **(1mk)**

……

……

7. A student was supplied with a colourless liquid suspected to be water. Describe a chemical test that would be carried out to show that the liquid was water. **(1mk)**

……

……

……

8. In an experiment to determine solubility of sodium chloride, 13.2g of saturated sodium chloride solution at 18^0C was evaporated to dryness. 3.6g of the salt was left after complete evaporation of water.Determine the solubility of sodium chloride at 18^0C. **(3mks)**

9. a) State Graham's law of diffusion. **(1mk)**

……

……

A volume of 120cm^3 of nitrogen gas diffused through a membrane in 40 seconds, how long will 240cm^3 of carbon (IV) Oxide take to diffuse through the membrane under the same conditions **(2mks)**

10. A student was carrying out an experiment using Barium sulphate. The salt accidentally got mixed up with sodium sulphate. Describe how the student would get a dry sample of Barium sulphate. **(3mks)**

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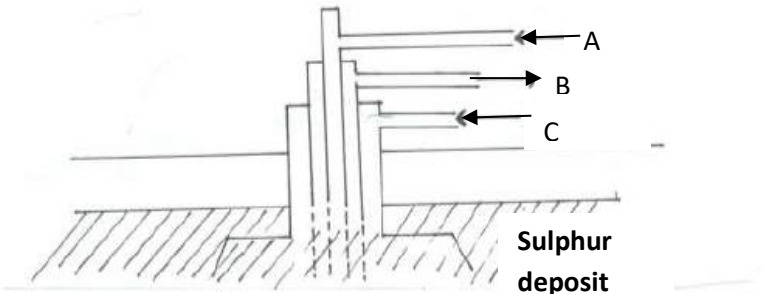
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11. The diagram below represents the Frasch process. Study it and answer the questions that follow



a) Name;

A **(½mk)**

B **(½mk)**

C **(½mk)**

b) Why is C pumped to the Sulphur deposit. **(½ mk)**

……

c) Which property of sulphur enables it to be extracted by the method above**.** **(1mk)**

……

……

12. An element A has two isotopes ^{50}A and ^{52}A. The relative atomic mass of A is 51.5

i) Determine the percentage abundance of each isotope. **(2mks)**

ii) Define the term isotopy **(1mk)**

……

……

……

13. Study the table below and answer the questions that follow. The letters are not the actual chemical symbols of the elements.

Element	**Atomic number**	**Atomic mass**
W	20	40
X	9	19
Y	10	20
Z	17	35.5

i) Identify elements that belong to the same group and give a reason. **(2mks)**

……

……

……

ii) Which element is a metal. **(1mk)**

……

14. Study the information given in the table below and answer the questions that follow

Bond	C - H	Cl - Cl	C - Cl	H - Cl
Average bond enthalpy ($KJmol^{-1}$) Breaking of bond)	414	244	326	431

a) Calculate the enthalpy change for the reaction **(3mks)**

$CH_{4(g)} + Cl_{2(g)} \xrightarrow{\text{uv light}} CH_3Cl_{(g)} + HCl_{(g)}$

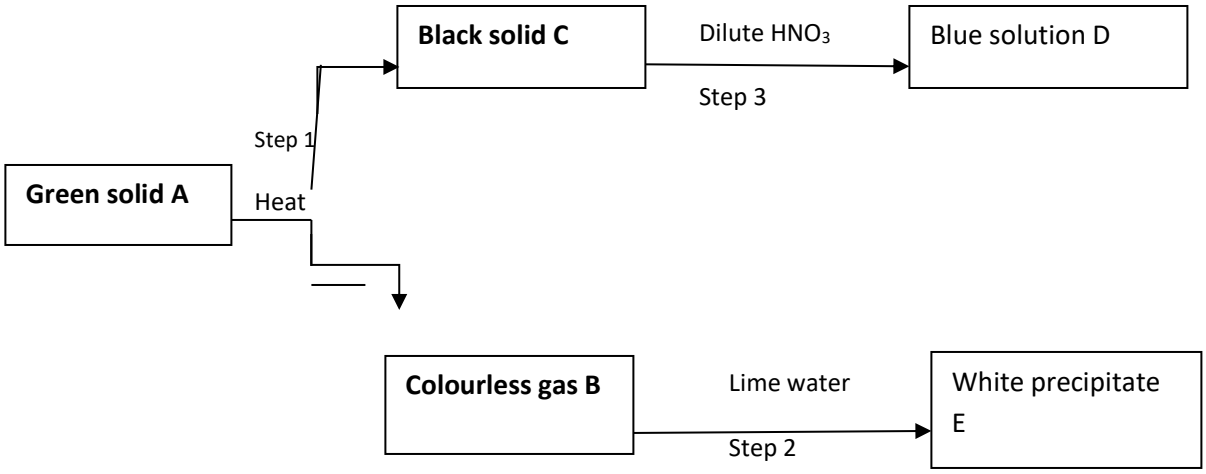
b) Is the reaction exothermic or endothermic?

Explain your answer. **(1mk)**

……

……

15. Study the flow chart below and answer the questions that follow



a) Write the chemical formulae of the following;

i) Green solid A **(1mk)**

……

ii) White precipitate E **(1mk)**

……

b) Write a chemical equation for the reaction taking place in the following steps.

i) Step 1 **(½ mk)**

……

……

ii) Step 3 **(½ mk)**

……

……

16. Soap solution was added to the three samples of water and the amount of soap required to form lather with 1 litre of each sample of water before and after boiling was recorded as shown below.

	I	II	III
Volume of soap before water is boiled	30	5	12
Volume of soap after boiling	30	5	5

a) Explain the change in the volume of soap solution used in experiment III. **(1mk)**

……

……

b) Why was the volume of soap used in experiment II so low. **(1mk)**

17. a) State Avogadro's law **(1mk)**

……

……

b) $100cm^3$ of hydrogen was mixed with $300cm^3$ of chlorine and the mixture allowed to react. Determine the maximum volume of hydrogen chloride gas that would form. **(2mks)**

18. The table below shows the tests that were carried out on solid R and the observations made

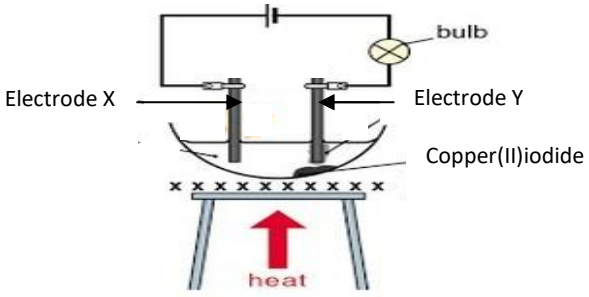
Test	Observations
i) Solid R was heated.	Solid R turned from white to yellow.
ii) Dilute hydrochloric acid was added to solid R.	Colourless solution was formed.
iii) To the colourless solution obtained in test II excess sodium hydroxide solution was added.	A white precipitate was formed which dissolved to form a colourless solution.

Write the formula of cation in;

a) Solid N **(1mk)**

b) Colourless solution formed in test III **(1mk)**

19. The diagram below is a set up of apparatus used during electrolysis of molten copper(II) iodide



i) List all ions present in the electrolyte. **(2mks)**

……

……

……

ii) Write half equations for reactions in electrodes;

a) X **(1mk)**

b) Y

20. 2.4 g of magnesium were reacted with excess dilute hydrochloric acid at room temperature and pressure. Calculate the volume of hydrogen that was formed (Molar gas volume at R.T.P = $24dm^3$ Mg = 24) **(3mks)**

21. Write the chemical formula of sodium sulphate. **(1mk)**

……

……

22. Sulphuric (VI) acid is manufactured using the contact process.

a) State the catalyst used in the process. **(1mk)**

b) State the optimum conditions for the process. **(1mk)**

c) Explain how environmental pollution by the process is minimized. **(1mk)**

23. A student had 2 g of sodium hydroxide and z grammes of sulphuric (VI) acid. Which of the compound contain more of hydrogen atoms. **(3mks)**

(H =1, S = 32, O = 16, Na =23)

24. State and explain the observations made when concentrated sulphuric (VI) acid is added to glucose. **(2mks)**

25. Name an ion which must be present in acidic solution. **(1mk)**

26. Dry blue litmus paper was put into a gas jar of dry hydrogen chloride gas. State and explain the observations made. **(2mks)**

27. 250cm^3 of water was added to 300cm^3 of 2M sulphuric vi acid. determine the new concentration of the solution **(2mks)**

28. Liquid P and Q mix forming a solution and have different boiling points.

i) Name a suitable method of separation that would be used to separate the two liquids. **(1mk)**

ii) What property makes it possible to separate the two liquids P and Q. **(1mk)**

29. Describe a chemical test for chlorine. **(2mks)**

30. Describe how zinc sulphate crystals can be prepared. **(2mks)**

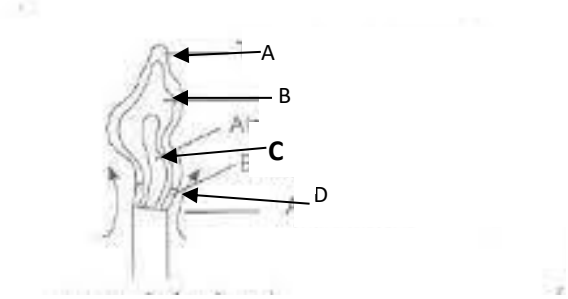
31. Use the information in the table to answer questions that follow. (The letters are not the actual chemical symbols of the element)

Element	Atomic radius (nm)	Ionic radius (nm)
M	0.158	0.097
N	0.202	0.132
L	0.133	0.061

a) Do these elements belong to a metallic or a non – metallic group? Give a reason.**(2mks)**

b) Which element is the most reactive? Explain. **(1mk)**

32. Study the diagram below and answer the questions that follow



a) Name the flame above **(1mk)**

b) Name parts A,B,C and D of the flame **(2mks)**

A

B

C

D

CEKENAS CLUSTER 2026 KCSE MOCK

SERIES 2 EXAM TEST

CHEMISTRY

233/2 (THEORY)

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 admission number in the spaces provided above.*

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

3.*Answer ALL the questions in the spaces provided in the question paper.*

4. *All working MUST be clearly shown where necessary.*

5. *Mathematical tables and silent electronic calculators may be used.*

FOR EXAMINER'S USE ONLY

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1	14	
2	10	
3	14	
4	11	
5	10	
6	10	
7	11	
TOTAL SCORE	80	

Answer ALL the questions in the spaces provided

1. The grid given below represents part of the periodic table. Study it and answer the questions that follow. The letters are not the actual symbols of the elements.

								A
B				**G**		**H**	**E**	
	J		**I**	**L**				**C**
D							**M**	
Y								

(i) What name is given to the family of elements to which A and C belong? **(1 mark)**

……

(ii) Write the chemical formula of the sulphate of element D. **(1 mark)**

……

……

(iii) Which letter represents the most reactive **(2 marks)**

(a) Metal

(b) Non-metal

(iv) Name the bond formed when B and H react. Explain your answer. **(2 marks)**

……

……

……

(v) Select one element that belong to period 4. **(1 mark)**

……

……

(vi) Ionic radius of element E is bigger than the atomic radius. Explain. **(2 marks)**

……

……

……

(vii) The electron configuration of a divalent anion of element N is 2.8.8. Induce the Position of element N on the periodic table drawn above. **(1 mark)**

(viii) The oxide of G has a lower melting point than the oxide of L. Explain. **(1 mark)**

……

……

(ix) How do the atomic radii of I and C compare. Explain. **(2 marks)**

……

……

……

(x) Explain the trend in the 1st ionization energies of the elements J, I and L**.** **(1mark)**

……

……

2 a) Define the following terms

i) Saturated solution **(1mk)**

……

……

ii) Fractional crystallization **(1mk)**

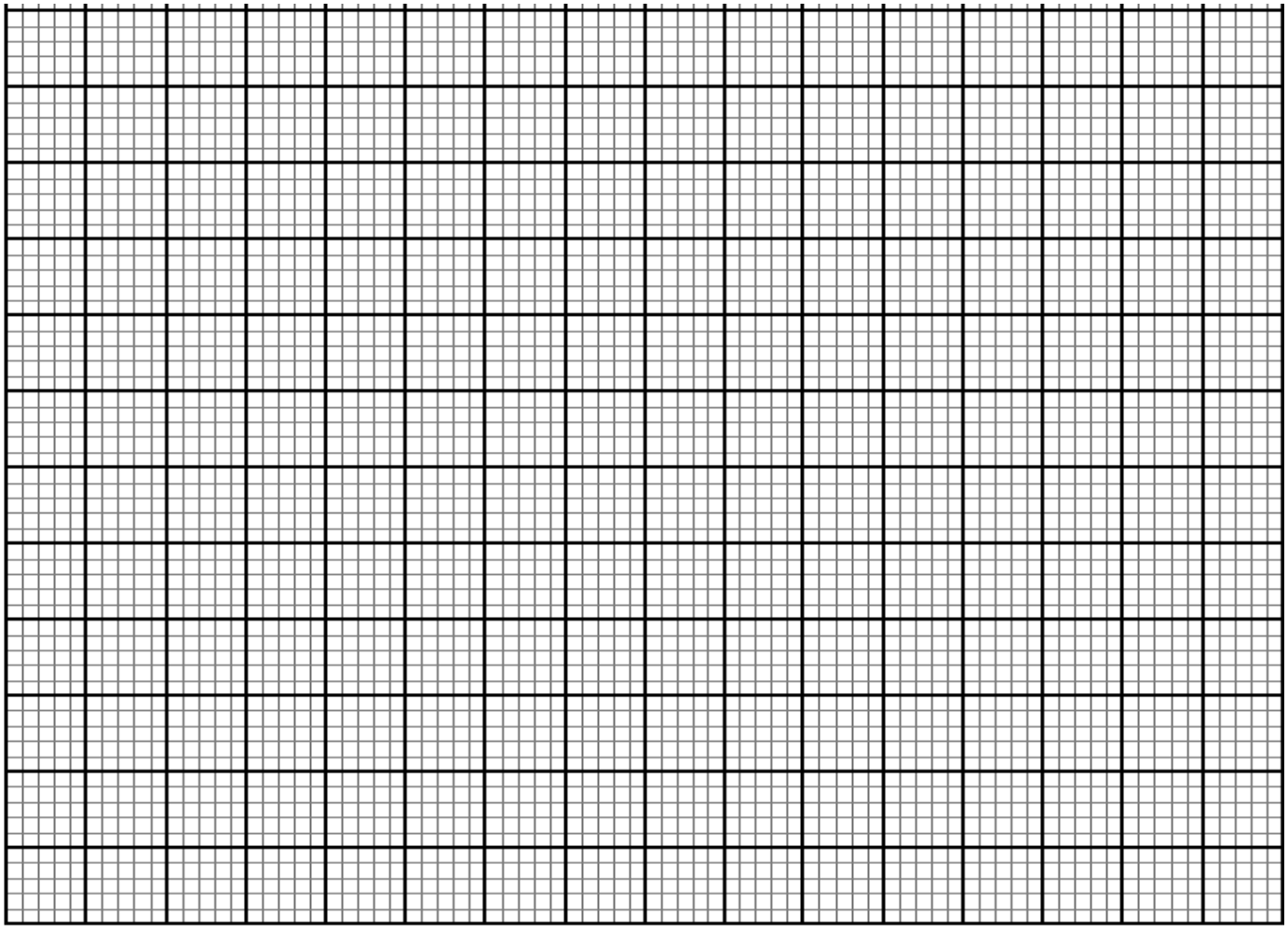
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b) Solubility of salt X and Y were determined at different temperatures as shown in the following data.

Temperature (ºC)		0	20	40	60	80	100
Solubility of 100g of water	X	12	30	75	125	185	250
	Y	15	20	35	45	65	80

i. On the grid provided, plot a graph of solubility (vertical axis) against temperature. **(4mks)**



ii. From the graph determine the solubility of each at 50ºC.

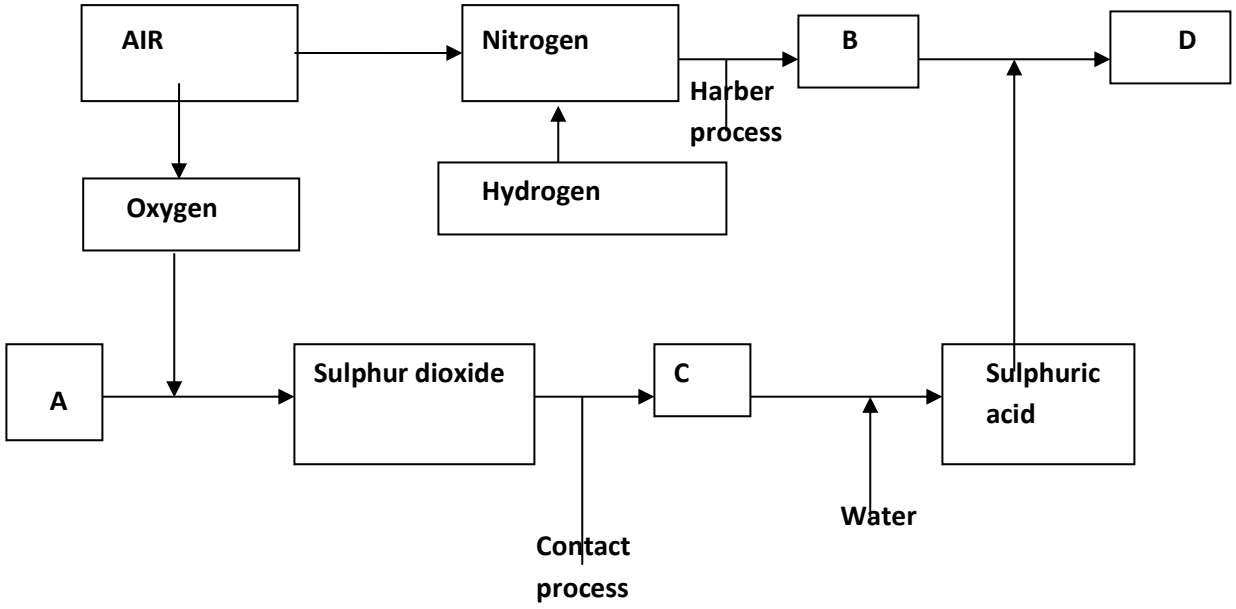
X …….. **(1mk)**

Y …… **(1mk)**

iii. At what temperature was the solubility of both salts equal. **(1mk)**

b)i. What is permanent hardness of water? **(1mk)**

3. The flow chart below illustrates two industrial processes. Haber and contact processes each with air as one of the starting materials and other chemical reactions.



a) (i) Give the name of the process by which air is separated into oxygen and nitrogen**.(1 mk)**

……

(ii) Apart from oxygen and nitrogen gas produced from process a(i) name any other gas produced in the process above. **(1 mk)**

……

b) Name the substances which are represented by the letter. **(4 mks)**

A……..

B……..

C …….

D……

c) Name the catalyst used in;

(i) The Haber process **(1 mk)**

……

(ii) The contact process **(1 mk)**

……

(iii) Explain the role of the catalyst in both the Haber and contact process. **(2 mks)**

……

……

……

d) (i) Write a balanced equation for formation of compound D. **(1 mk)**

……

……

(ii) Calculate the percentage by mass of nitrogen present in compound D

(N = 14.0, H = 1.0, S = 32.0, O = 16.0) **(2 mks)**

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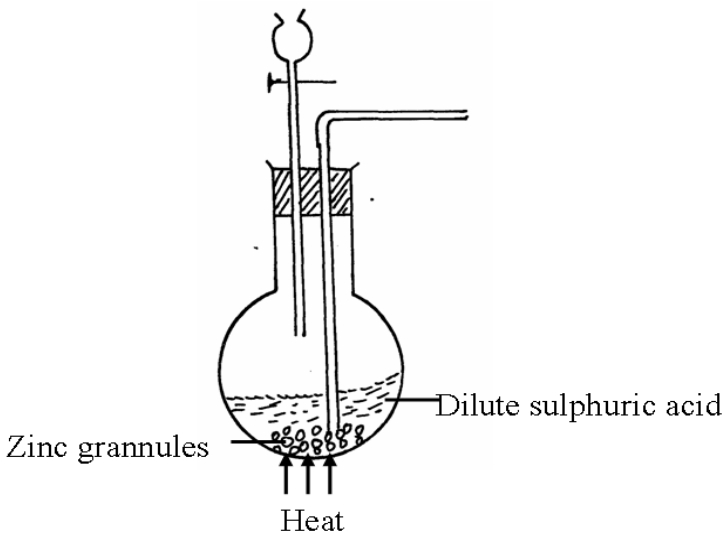
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(iii) Give one use of compound D. **(1 mk)**

……

……

4. A student set-up the arrangement below to prepare and collect dry hydrogen gas



(a) Identify two errors from the section of the arrangement shown above **(2mks)**

I: ……

II:……

(b) Complete the diagram to show how dry hydrogen gas can be collected. **(2mks)**

(c) (i) Explain why hydrogen was collected by the method shown above **(1mk)**

……

……

(ii) Write a balanced chemical equation for the reaction that takes place when hydrogen gas is burnt in air. **(1mk)**

……

(e) Determine the relative atomic mass of zinc, given that when 6.54g of zinc was used, 2.4litres of hydrogen gas was produced. (Molar gas volume = 24 litres) **(3mks)**

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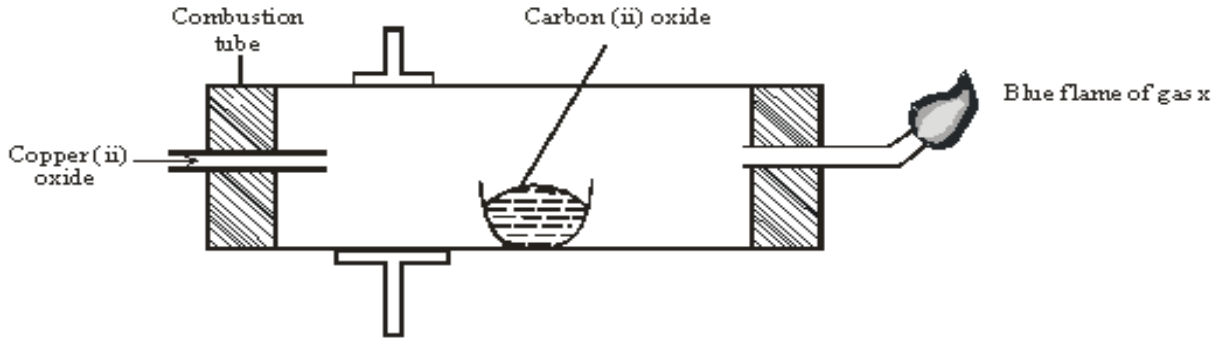
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(c) State any **two non**-industrial uses of hydrogen gas **(2mks)**

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……

5. The diagram below shows an experiment set-up to investigate a property of carbon (ii) oxide. Study it and answer the questions that follow.



a) Name one condition that is missing in the set up that must be present if the experiment to proceed. **1mark**

……

b) If the experiment was carried out properly. What observation would be made in the combustion tube? **1mark**

……

……

c) Give an equation for the reaction that occurs in the combustion tube. **1 mark**

……

d) Give an equation for the reaction that takes place as gas x burns. **1 marks**

……

……

e) Why is it necessary to burn gas x? **1mk**

……

……

f) Name the reducing and oxidizing agent. **2marks**

(i) Reducing agent

……

(ii) Oxidising agent

……

g) Identify any other substance that would have the same effect on copper (ii) oxide as carbon (ii) oxide. **1mark**

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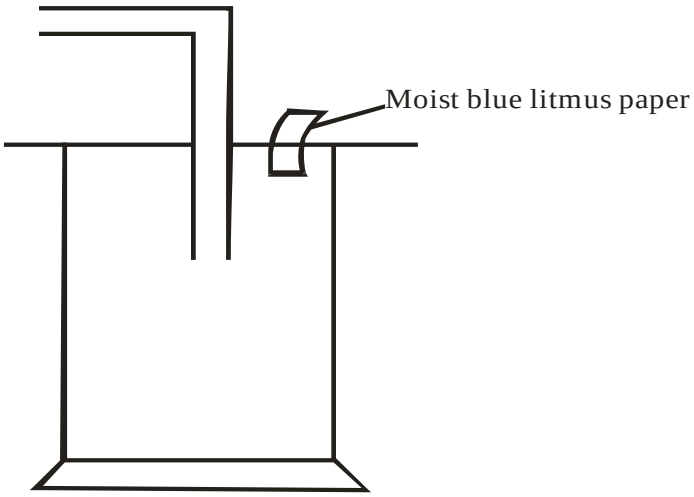
h) What would happen if copper (ii) oxide was replaced with sodium oxide? Explain **2mark**

……

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6. Dry chlorine was collected using the set up below.



a) Name a suitable drying agent for chlorine gas? (**1mark)**

……

b) State one property of chlorine gas which facilitates this method of collection. **1mark**

……

……

c) State the observations made on the moist blue litmus paper. (**2marks)**

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d) Chlorine gas was bubbled through distilled water. With aid of an equation show the formation of chlorine water. (**1mark)**

……

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e) Write the formula of the compounds formed when chlorine gas reacts with warm dry phosphorous. (**2marks)**

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f) Chlorine gas is mixed with moist hydrogen sulphide gas, state and explain the observations

(**2marks)**

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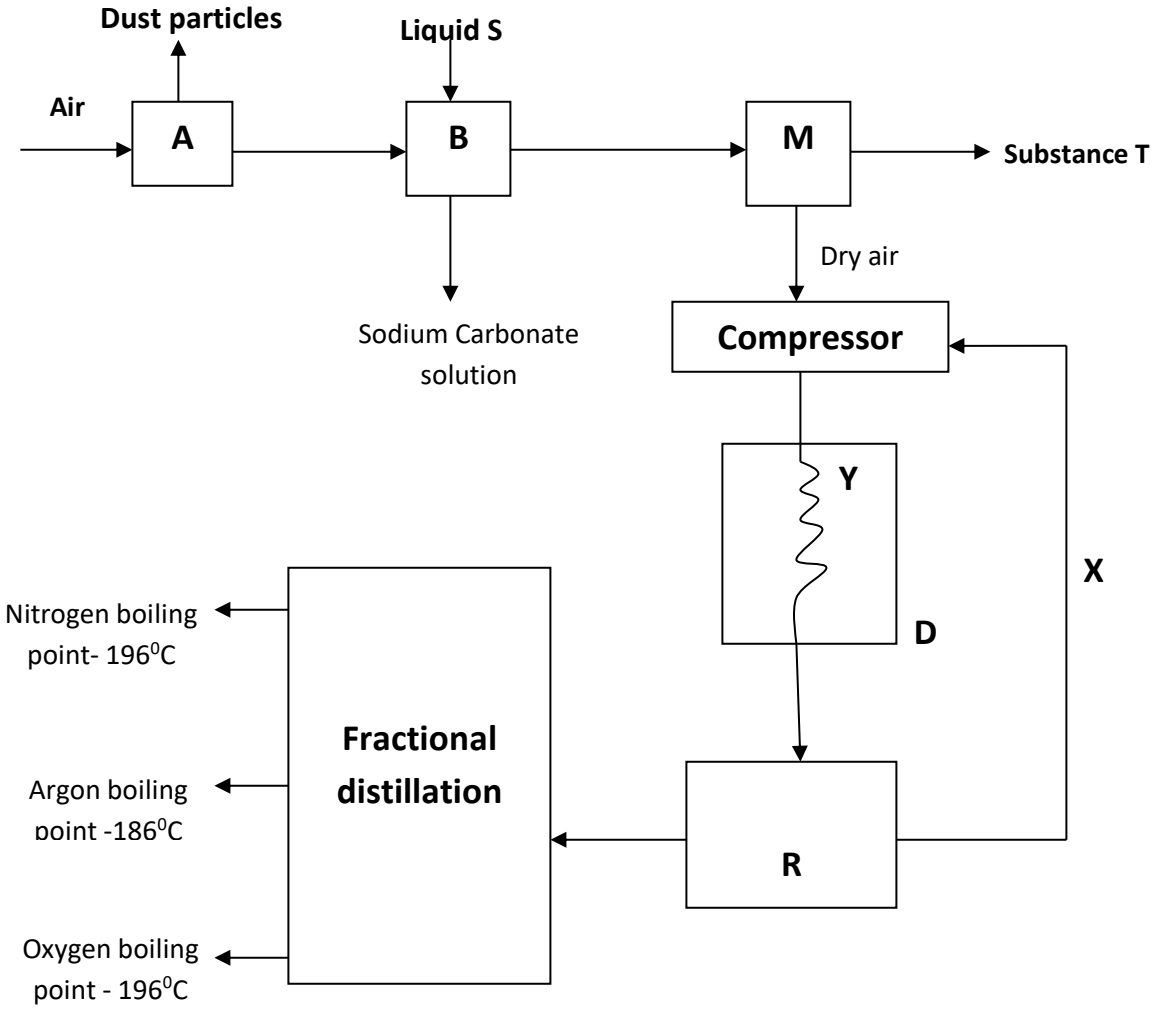
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g) Give one use of chlorine gas. **1mark**

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……

7. Fractional distillation of air is used in the industrial manufacture of oxygen. The diagram below shows the process.



a) What processes are taking place in chamber A,B,M and D **2marks**

A……..

B…….

M……

D ……..……...…..

b) Name;

(i) Liquid S **(1mk)**

……..……..…

(ii) Substance T **(1mk)**

……

c) Explain why part Y in chamber D is curved? **1mark**

……

……

d) Give two industrial uses of oxygen gas? (**2marks)**

……

……

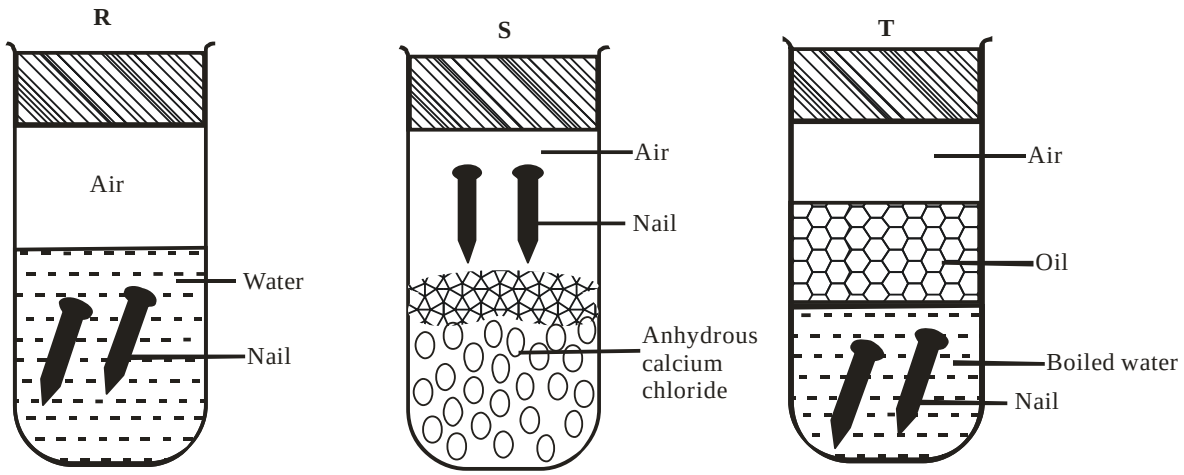
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e) In the laboratory preparation of oxygen, manganese (iv) oxide and hydrogen peroxide are used. Write an equation to show how oxygen gas is formed. **1mark**

……

……

f) An investigation was carried out using the set-up below. Study it and answer the questions that follow.



(i) State and explain what will happen in the three test-tubes R, S and T after seven days. **2marks**

……

……

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(ii) Give one reason why some metals are electroplated. **1mark**

……

……

CEKENAS CLUSTER 2026 KCSE MOCK

SERIES 2 EXAM TEST

CHEMISTRY

233/3 (PRACTICAL)

PAPER 3

TIME: 2¼ HOURS

SCHOOL…… SIGN……

Kenya Certificate of Secondary Education.

CONFIDENTIAL INSTRUCTIONS TO SCHOOLS

In addition to fittings and apparatus found in a chemistry laboratory, each candidate will need the following.

Question one.

(a) Burette
(b) Pipette
(c) Filter Funnel
(d) Retort stand and clamp
(e) Conical flask, 250ml
(f) White tile
(g) Phenolphthalein indicator
(h) 100cm^3 of Solution K, 0.1M hydrochloric acid
(i) 100cm^{3}Solution L 2g per litre of sodium hydroxide.
(j) Solid **N** 0.5 g of an impure calcium carbonate, (**N** is made by mixing $CaCO_3$ and Sodium Chloride in the ratio 4:1)
(k) An empty 250ml beaker

Question two and three

- Solid T **sodium sulphite**
- Solid J mixture of ammonium sulphate and hydrated zinc sulphate ratio 1:1

Access to

- Distilled water in wash bottle
- Barium chloride solution
- 2M hydrochloric acid
- Acidified potassium manganate vii
- Source of heating
- Barium nitrate
- 2M nitric v acid
- Lead ii nitrate
- 2M NaOH
- Aqueous ammonia solution
- Litmus papers

CEKENAS CLUSTER 2026 KCSE MOCK

SERIES 2 EXAM TEST

CHEMISTRY

233/3 (PRACTICAL)

PAPER 3

TIME: 2¼ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO THE CANDIDATES:-

(a) Write your name and adm number in the spaces provided

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

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

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

(e) *All working* ***MUST*** *be clearly shown where necessary.*

(f) *Use the first 15minutes of the 2 hours to ascertain you have all the chemicals and apparatus tha you may need.*

For Examiners use Only

QUESTION	MAX. SCORE	SCORE
1	22	
2	08	
3	10	
TOTAL	**40**	

1 You are provided with;

- Solution K, hydrochloric acid
- Solution L, containing 2g per litre of sodium hydroxide.
- 0.5 g of an impure calcium carbonate, solid **N.**
- You are required to determine the :

(a)Concentration of solution K in moles per litre.

(b) Percentage purity of calcium carbonate, solid **N**

Procedure I

Fill the burette with hydrochloric acid, solution K. pipette 25cm^3 of sodium hydroxide, solution L

into a conical flask. Add 2-3 drops of phenolphthalein indicator and titrate. Record the results in the table. Repeat the procedure two more times.

Table 1

	I	II	III
Final burette reading (cm^3)			
Initial burette reading (cm^3)			
Volume of solution Kused (cm^3)			

4mks

(a) What is the average volume of solution **K** used **(1mk)**

……

……

……

(b) Determine the concentration of solution L in moles per litre. **(1mk(Na= 23,O = 16, H = 1)**

……

……

……

c) Determine the number of moles of solution L that reacted with solution K **(1mk)**

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d) Write the equation of the reaction that took place **(1mk)**

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e) Calculate the number of moles of solution K that reacted **(1mk)**

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(f) Calculate the concentration of solution K in moles per litre. **(1mk)**

……

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Procedure II

Using a measuring cylinder, measure out 100cm^3 of solid K into a 250ml beaker. Add all of solid N into the beaker containing solution K. Swirl the mixture and allow the reaction to proceed until offervescence stops. Label this as solution P. Fill the burette with solution P. pipette 25cm^3 of solution L into a conical flask. Add 2-3 drops of phenolhthalein indicator and titrate. Record your results in table II below repeat the titration two more times and complete the table **4mks**

Table II	I	II	III
Final burette reading (cm^3)			
Initial burette reading (cm^3)			
Volume of solution Pused (cm^3)			

(a) Determine the average volume of solution **P** used. **1mk**

……

……

(b) Calculate the number of moles of hydrochloric acid in solution P used. **(1mk)**

……

……

……

c) Determine the number of moles of hydrochloric acid in $100cm^3$ of solution P. **(1mk)**

……

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d) Calculate the:

(i) Moles of hydrochloric acid in $100cm^3$ of the original hydrochloric acid solution K **(1mk)**

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(ii) Moles of the hydrochloric acid that were used up in the reaction with solid N. **(1mk**

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(iii) Moles of calcium carbonate that reacted with hydrochloric aci**d.** **(1mk)**

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e) Given that the relative formula mass of calcium carbonate is 100,calculate the:

(i) Mass of the calcium carbonate that reacted. **(1mk)**

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(ii) Percentage purity of the calcium carbonate, solid N. **(1mk)**

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2.You are provided with **solid T.** Carry out the following tests and write your observations and inferences in the spaces provided.

Place all solid T in a boiling tube. Add about $6cm^3$ of distilled water to the solid T and shake the mixture well. Retain the mixture for use in the following tests.

a) Dip a clean glass rod in the mixture obtained above and burn it on a Bunsen burner flame.

Observation	**Inference**
(1 mark)	**(1 mark)**

b) Divide the mixture in the boiling tube into 3 portions.

(i) To the 1st portion, add about 1cm^3 of barium chloride solution. Retain the resulting mixture for use in (iii) below.

Observation	Inference
(1 mark)	**(1 mark)**

(ii) To the mixture in (ii) above, add about 4cm^3 of dilute hydrochloric acid.

Observation	Inference
(1 mark)	**(1 mark)**

(iii) To the 3rd portion, add about 3 drops of acidified potassium manganate (VII) solution.

Observation	Inference
(1 mark)	**(1 mark)**

3.You are provided with **solid J.** Carry out the test below to identify the compound.

(a) Place ½ spatula of solid J in a hard test tube and heat strongly until no further change. Test the gas produced with litmus paper.

Observation	Inference
(1/2 mark)	**(1/2 mark)**

(b) Place the remaining **solid J** into a clean boiling tube. Half fill it with distilled water and shake well. Divide the solution into four portions.

(i) To the first portion add dilute sodium hydroxide solution dropwise till in excess.

Observation	Inference
(1 mark)	**(1 mark)**

(ii) To the second portion add ammonia solution dropwise till in excess.

Observation	Inference
(1 mark)	**(1 mark)**

(iii) To the third portion add drops of dilute barium nitrate.

Observation	**Inference**
(1 mark)	**(1 mark)**

(iv) To the fourth portion add a few drops of dilute nitric acid followed by lead (II) nitrate solution and warm.

Observation	**Inference**
(1 mark)	**(1 mark)**

Identify Compound J**……..…** **(1 mark)**

CEKENAS CLUSTER 2026 KCSE MOCK

SERIES 2 EXAM TEST

PHYSICS

232/1 (THEORY)

PAPER 1

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO STUDENTS

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

(b) *Attempt **ALL** questions in sections A and B.*

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

(d) *All working must be clearly shown*

(e) *Non programmable silent electronic calculators and KNEC mathematics table may be used except where stated otherwise*

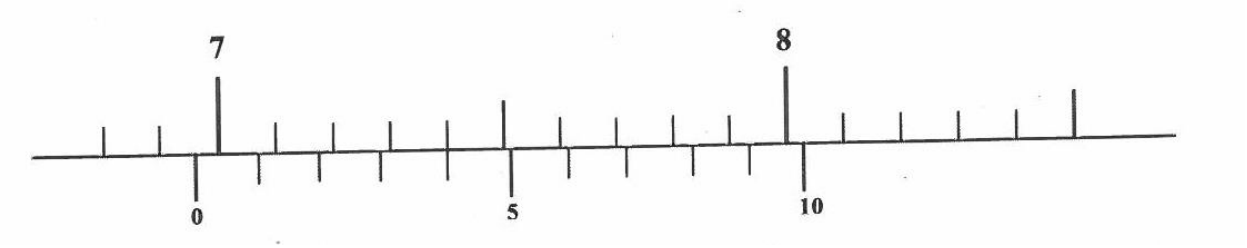
For Examiner's Use Only

Section	Question	Maximum Score	Candidates' Score
A	Q1 – Q12	25	
B	Q13	9	
	Q14	11	
	Q15	9	
	Q16	10	
	Q17	10	
	Q18	6	
		80	

SECTION A (25 MARKS)

Answer all the questions in this section

1. **Figure 1** below shows a scale of vernier calipers when measuring the width of a meter rule.



What is the actual width of the meter rule if the calipers has a zero error of + 0.6mm.?(**2mks)**

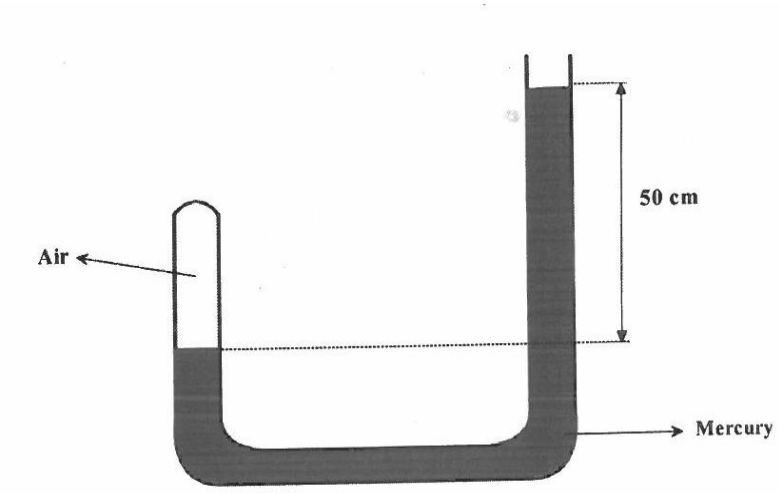
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2.A clinical thermometer has a constriction in the bore just above the bulb. State the use of the constriction. **(1mk)**

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……

3.Figure 2 below shows air trapped by a column of t6he mercury in a U-tube . The atmospheric pressure is 76 cm Hg.



At what pressure in mmHg is the enclosed air? **(3mks)**

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4.A girl of mass 50 Kg runs up a flight of height 4m in 4 seconds . Calculate the power she developed in this time **(2mks)**

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5. Name the transducer in the following energy conversions.

i). Kinetic to electrical **(1mk)**

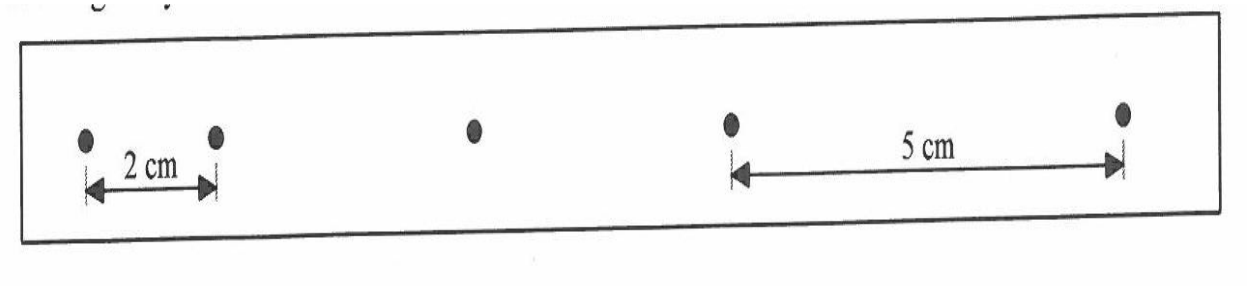
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ii). Solar to heat **(1mk)**

……

6.Figure 3 below shows dots produced on a tape pulled through a ticker timer by a moving body .



The frequency of the ticker –timer is 50 Hz. Calculate the acceleration of the body**.** **(3mks)**

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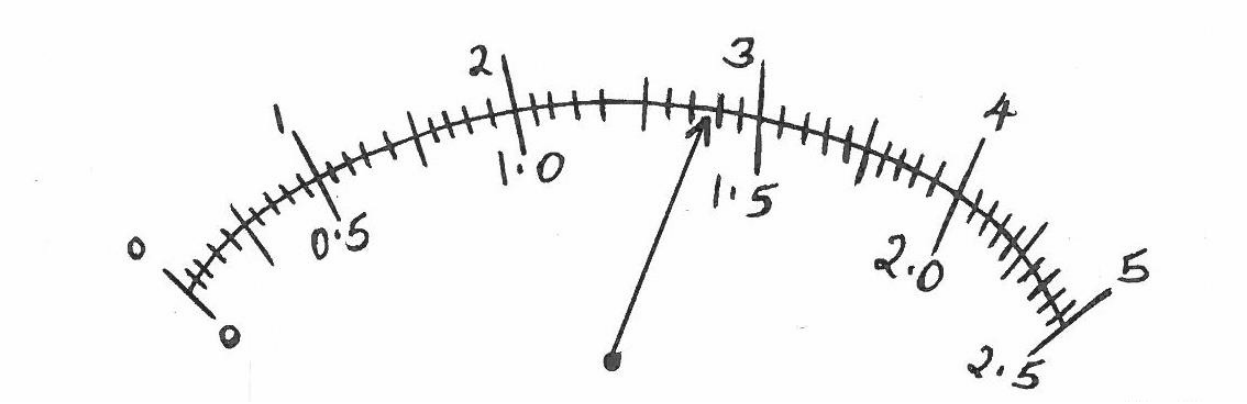
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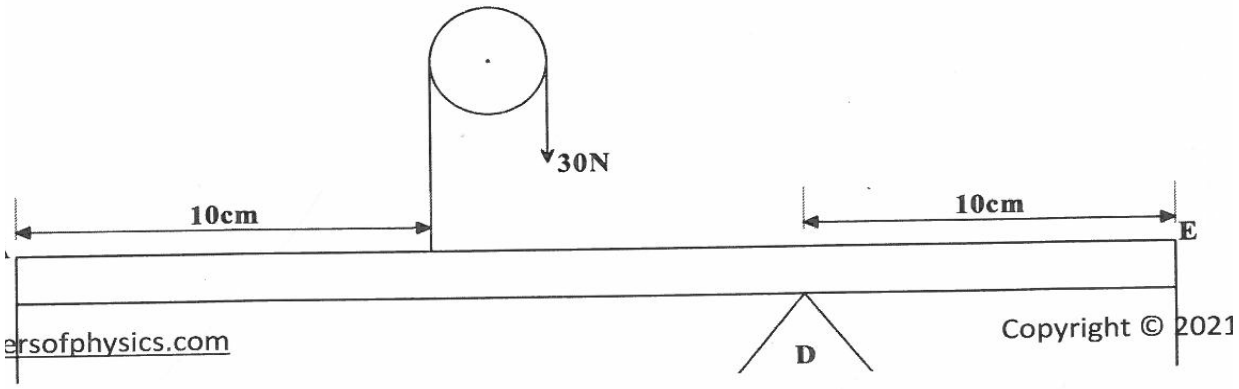
7.Figure 4 below shows an ammeter used to measure current through the conductor .The student used the lower scale.



State the reading from the meter **(1mk)**

……

8. Figure 5 below shows a uniform rode AE which is 40 cm long. It has a mass of 2Kg and pivoted at D. If 2N is acting at point E , and 30N force is passed through a frictionless pulley



Find the force X acting at end A. **(3Mks)**

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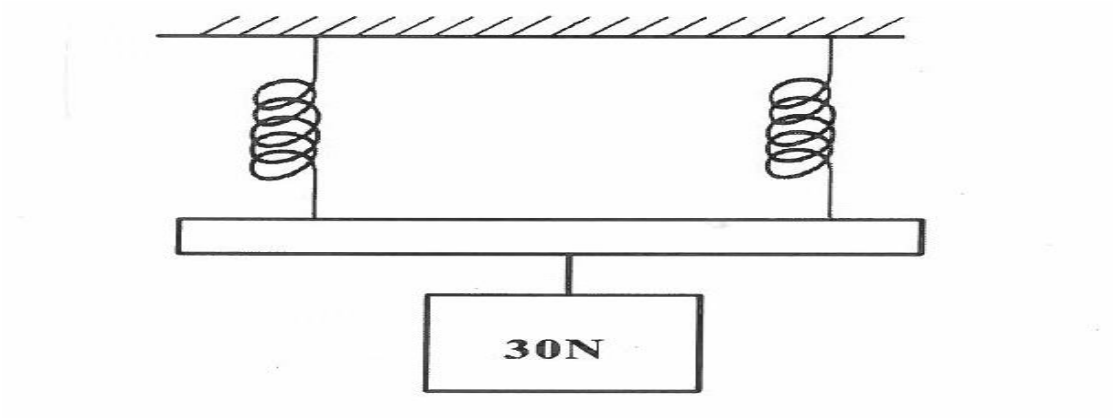
9. Convert -200°C into Kelvins **(1mk)**

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10.Figure 6 below shows two identical springs constant 3N/cm supporting a load of 30N.



Determine the extension of each spring **(3mks)**

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11. Explain why a bus should not carry standing passengers. **(1mk)**

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12. State TWO reasons mercury is preferred as a barometric liquid and not water . **(2mks)**

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SECTION B (55MARKS)

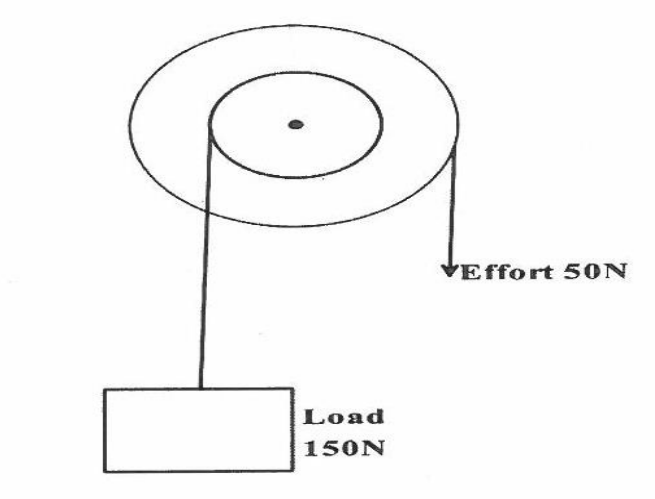
Answer all questions in this section

13. a) Define the term efficiency as used in machines . **(1mk)**

……

……

b) Figure 7 below shows the cross –section of a wheel and axle of radius 6.5 cm and 1.5 cm respectively used to lift a load. Use it to answer the question that follow.



Determine the

i. Mechanical advantages (M.A) of the system **(2mks)**

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ii. Velocity ratio (V.R) of the system **(2mks)**

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iii. Efficiency of the machine **(2mks)**

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iv. Give one reason why the above machine is not 100% efficient **(1mk)**

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……

c) State the law of conservation of energy **(1mk)**

……

……

14. (a) In inelastic collision , kinetic Energy is lost .Explain . **(1mk)**

……

……

(b). A Trailer of mass 30 tonnes travelling at a velocity of Km/ her rams onto a stationery bus of mass 10 tonnes . The two move together after impact. Determine the common velocity at which they move after impact**.** **(3 Mks)**

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(c) A stone is thrown vertically upward with an initial velocity of 30 M/s

i. Determine the maximum height reached. **(2mks)**

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ii. Time taken to come back to the point of projection **(2mks)**

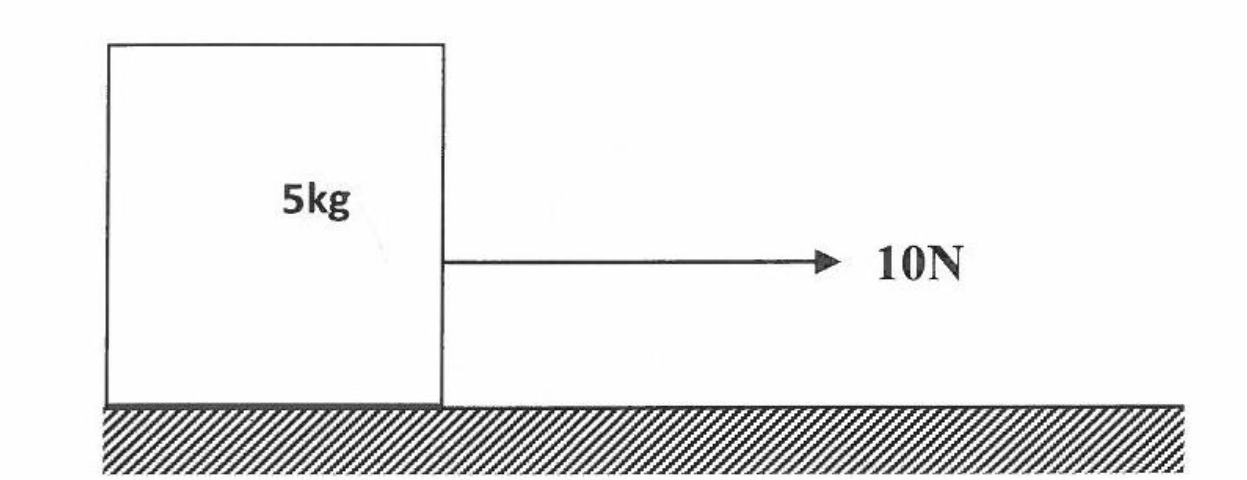
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(d) The figure 6 below shows a body being pulled by a constant force of 10N for 4m over wooden surface . The co- efficient of friction is o.03.



Find the acceleration of the body **(3mks)**

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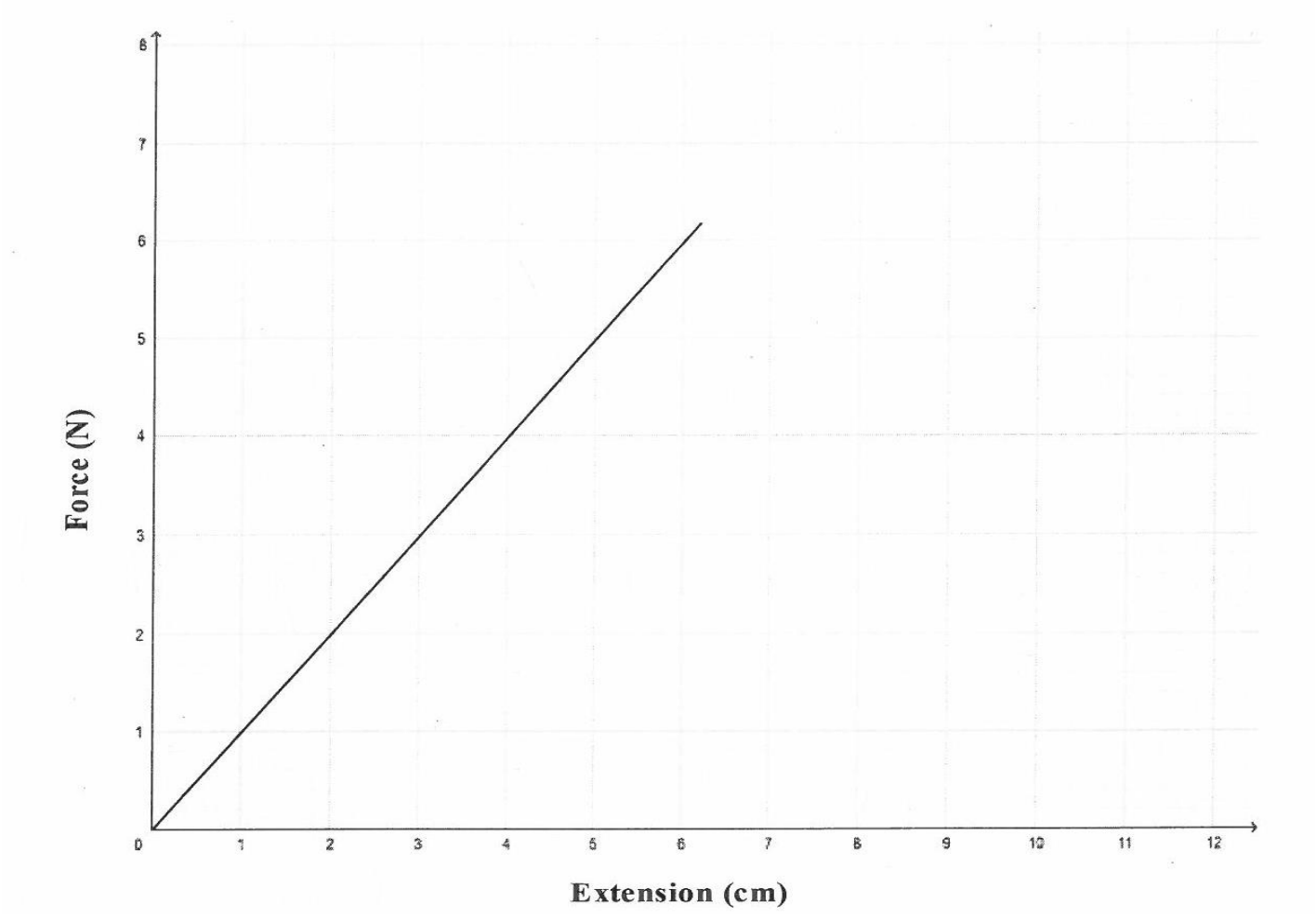
15. (a) State Hooke's law **(1mk)**

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……

(b) A graph of force (y-axis) against (x-axis) is provided. Use it to answer questions below.



From the graph determine;

i). Work done in stretching the spring by 3cm. **(3mks)**

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ii). Spring constant .Give your answer in SI Units. **(3mks)**

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iii). State **two** factors that affect the spring constant. **(2mks)**

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16. (a) Give reason why ink is likely to ooze a pen when one is up in an airplane.

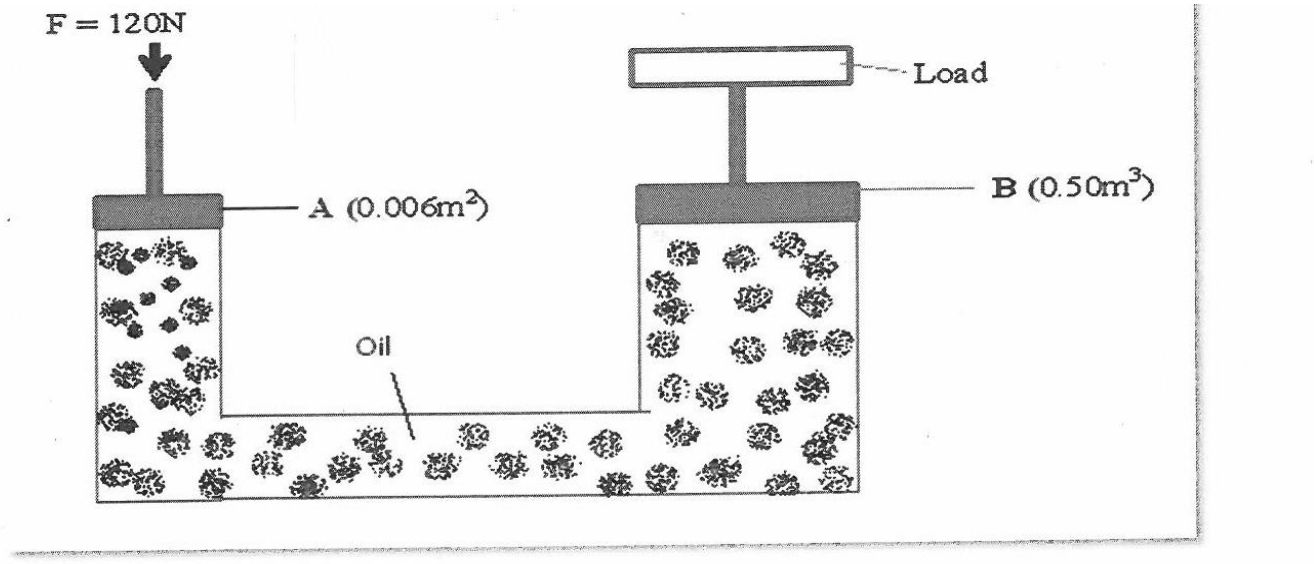
(1mk)

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……

(b) The figure below is a simple hydraulic machine used to raise heavy loads.



Calculate;

i. The pressure exerted on the oil by the force applied at **A** **(2mks)**

……

……

……

ii. The load raised at B **(2mks)**

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iii. Give two properties which make the oil suitable for use in this machine . **(2mks)**

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(c) The barometer reading at the base of the mountain is 60cm/ Hg while at the top is 50 cm/Hg. If the densities of air and mercury are 1.25kgm-3 and 13,600kgm-3 respectively. Calculate the height of the mountain. **(3mks)**

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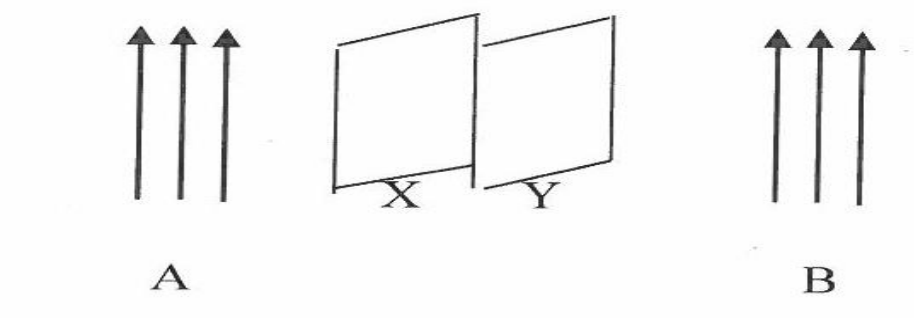
17.(a) Distinguish between streamline and turbulent flow. **(2mks)**

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(b)Figure below shows two light sheets of paper arranged as shown



Explain the observation made when air is blown at the same time at point A and B. **(2mks)**

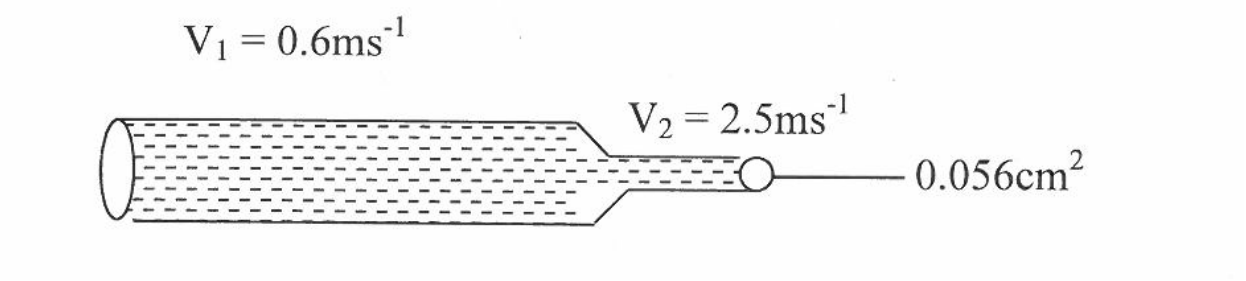
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(c) Figure 12 below shows an incompressible fluid moving through a tube of varied cross-section area. If the area of the small tube is 0.05m2, Calculate the area of large tube in cm2. **(3mks)**



(d) State the Bernoulli's principle **(1mks)**

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(e) State any **TWO** assumptions made when deriving the equation of continuity **(2mks)**

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18. a) State the **principal of moments** **(1mk)**

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……

b) A uniform metal strip is 3.0cm wide, 0.5 cm thick and 100 cm long. The density of the metal is 2.7 g/cm3. Determine

(i) The weight of the Metal strip. **(2mks)**

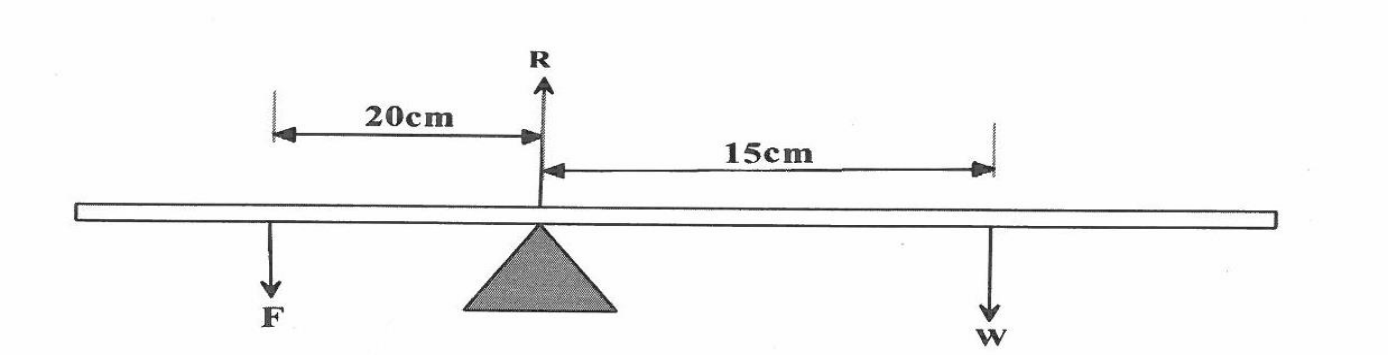
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The strip is placed on a pivot and kept in equilibrium by forces in the figure below.



(ii) Determine the value of F . **(3mks)**

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CEKENAS CLUSTER 2026 KCSE MOCK

SERIES 2 EXAM TEST

PHYSICS

232/2 (THEORY)

PAPER 2

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

(a) *Write your Name and 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 questions in Section A and B in the spaces provided below all questions.*

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

Take g = 10Nkg^{-1}

FOR EXAMINER'S USE ONLY

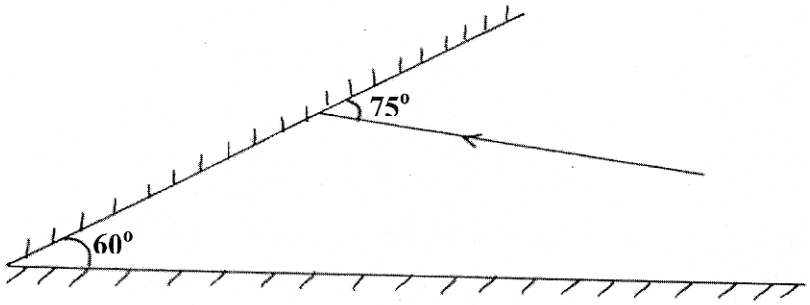
SECTION	QUESTION	MAX. SCORE	CANDIDATE SCORE
A	1 - 12	25	
B	13	12	
	14	09	
	15	11	
	16	11	
	17	12	
TOTAL SCORE		**80**	

SECTION A (25 MARKS)

Answer ALL questions in this section in the spaces provided

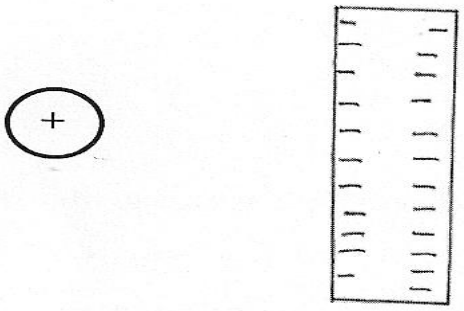
1. Figure 1 below shows a ray of light incident to the first of the two mirrors inclined at an angle of 60^0. Complete the path of the ray after reflection from the mirror. **(1mk)**

Fig. 1



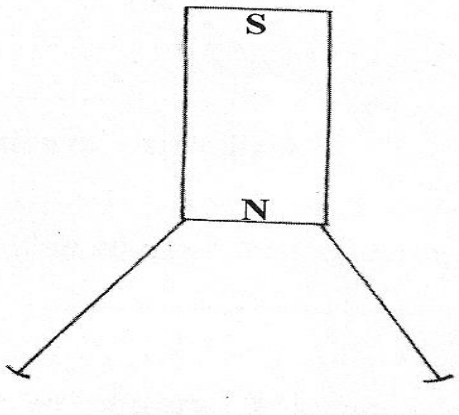
2. Figure 2 below shows a positive charge near a plate carrying negative charge. Draw the electric field between them. **(2mks)**

Fig.2



3 Two pins are hanging from a magnet S shown in diagram below figure 3.

Fig. 3



Explain why the nails do not hang vertically downwards. **(2mks)**

……

……

……

4.Draw diagrams to illustrate what happens when plane waves are incident on a slit.

(i) When the width of the slit is large compared with the wavelength of the waves. **(2mks)**

(ii) When the width of the slit is small compared with wavelength of the waves. **(2mks)**

5(i) Arrange the following waves in order of decreasing wavelength; x-rays, infrared, microwaves and visible light. **(1mk)**

(ii) State **one** application of visible light. **(1mk)**

6. State one defect of a simple cell and explain how it can be controlled. **(2mks)**

……

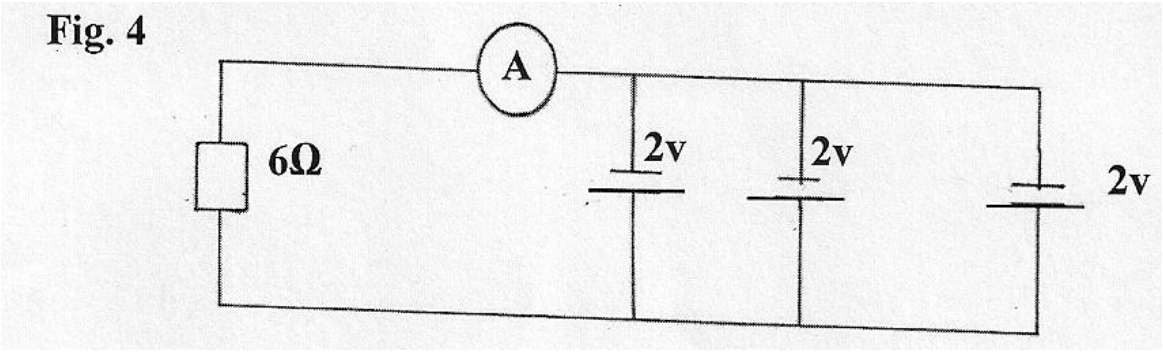
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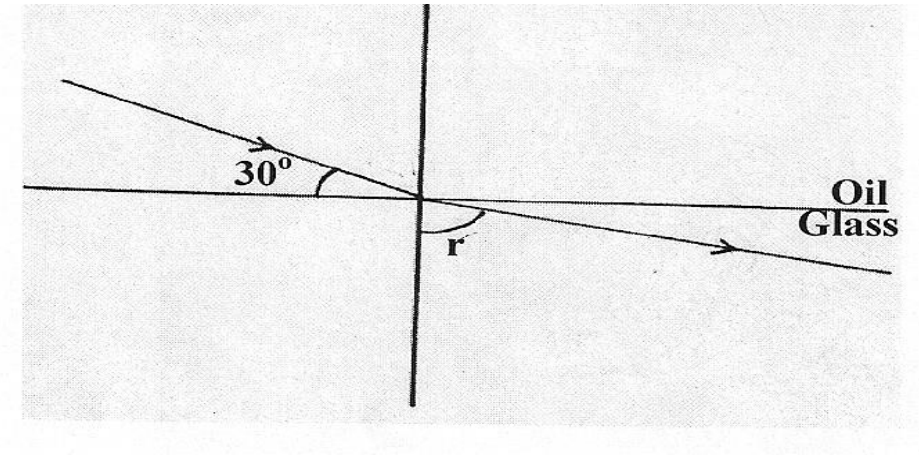
7 A girl shouts and hears an echo after 0.6 seconds later from a cliff. If velocity of sound is 330m/s, calculate the distance between her and the cliff. **(3mks)**

8 Determine the reading of the ammeter in figure 4 below. **(2mks)**

Fig. 4



9 A ray of light is incident on a glass-oil interface as shown in fig. 5 below. Determine the value of r. (Take refractive index of glass and oil as $^{3}/_{2}$ and $^{8}/_{5}$ respectively**)** **(1mk)**



10 State **two** factors that affect the capacitance of a parallel-plate capacitor. **(2mks)**

……

……

11 a) State two advantages of an alkaline accumulators over the lead acid accumulators **2mks**

……

……

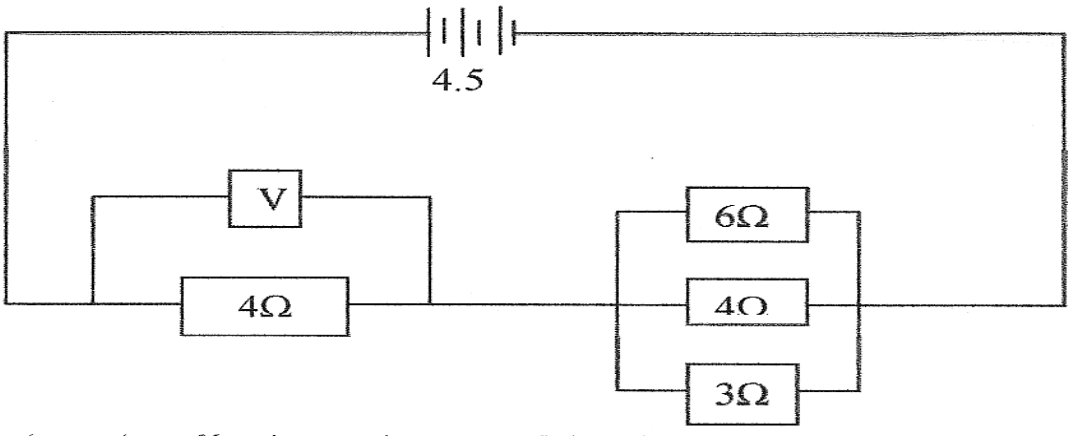
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12 An electric bulb is rated 40W ,240v .what is the resistance of the filament **2mks**

SECTION B (55 MARKS)

Answer ALL the questions in this section in the spaces provided

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



Fig

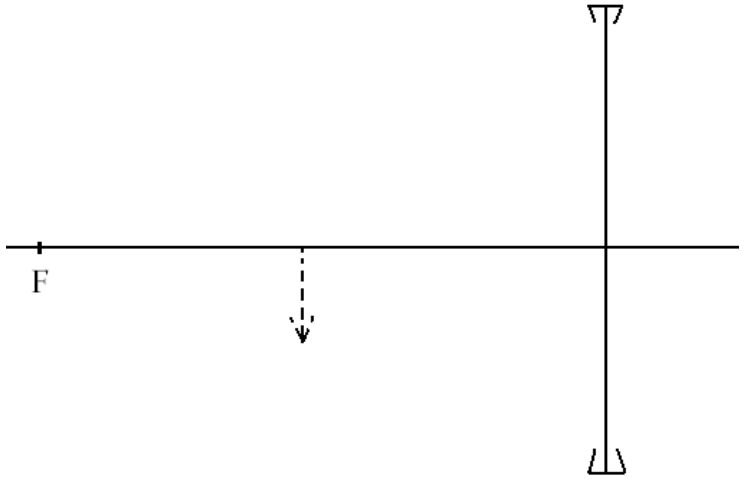
(i) Calculate the effective resistance of the circuit. **(3mks)**

(ii) Find the voltmeter reading. **(3mks)**

(b) A cell drives a current of 3.2A through a 2.8Ω resistor. When it is connected to 1.6Ω resistor, the current that flows is 5A. Find the E.m.f. (E) and internal resistance of the cell.

(4mks)

14 Complete the diagram below indicating the rays that will lead to the formation of the image shown below **(3marks)**



a) A compound microscope with an objective lens L_o of focal length 1.2cm and an eye piece lens L_e of focal length 2.8cm. An object is placed 1.8cm from the objective lens. The system of lenses produces a final image a distance of 12.0cm from L_e. Determine the distance of separation of lens L_o and L_e. **(4 MARKS)**

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b) An object is placed 12cm from a convex lens and it forms a virtual image 36cm from the lens. Calculate the focal length of the lens. **(3 MARKS)**

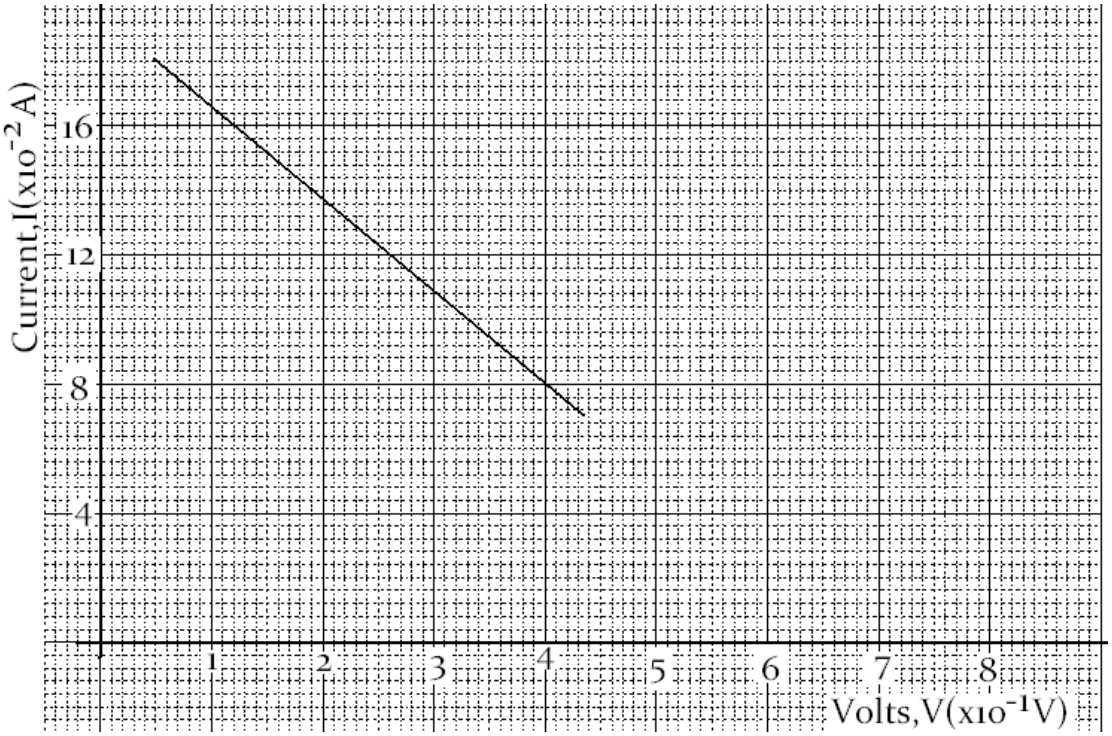
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c) The graph below shows the variation of potential difference V with current I for a certain cell.



From the graph determine

i). The internal resistance of the cell **(3 marks)**

……

……

……

……

ii). The e.m.f of the cell **(1 mark)**

……

……

14 (a)(i) State one cause of energy losses in a transformer and explain how it can be minimized. **(2mks)**

……

……

……

(ii) Describe briefly the energy changes involved in the generation of electrical energy at a hydropower station **(2mks)**

……

……

……

(iii) What are the advantages of transmitting power at:

(I) Very high voltages **(1mk)**

……

……

(II) Alternating voltage **(1mk)**

……

……

(b)(i) Explain how electrons are produced in a cathode ray oscilloscope (CRO) **(2 mk**

……

……

……

(ii) State two functions of the anodes in a CRO. **(2mks)**

……

……

……

(iii) At what part of the cathode ray oscilloscope would the time base be connected **(1mk)**

(iv) State why the tube is highly evacuated **(1mk)**

15 a) Define the term supersonic speed as used applied in sound waves **(1mark)**

……

……

b) in an experiment to determine the speed of sound in air, a drum at a point 150 m from a vertical wall was struck at varying frequencies while listening to the echo .The echo coincided with sound from the drum at a time when 20 successive strikes were made within a time of 18.5 s.

(I) Determine the time taken for the echo to heard **3marks**

(ii) Determine the speed of sound in air at the place **2marks**

(iii) What difference would you expect if the experiment was repeated on a colder day.**1mark**

C) A boy strikes a railway with a hammer. A railway worker 600 m away hears two sound s , One from the railway and the other from the air .If the time intervals between the two Sounds is 1.65s and the speed of sound in air is 340m/s, determine the speed of in the Railway line.

4 marks

16 a) define the term eclipse of the moon **1 mark**

b) differentiate between umbra and penumbra as used in the eclipse **2marks**

c) an incident ray forms an angle of 45 degrees with the mirror at point of incidence .If The position of the incident ray is kept constant while the mirror is rotated at an angle of 20 degrees .Find the angle through which the reflected ray is rotated **2 marks**

d) A tree 25 m high stands , 50 m in front of a pinhole camera whose screen is 30 cm behind the pinhole. What is the height of the image of the tree formed on the screen **. 3mks**

CEKENAS CLUSTER 2026 KCSE MOCK

SERIES 2 EXAM TEST

PHYSICS

232/3 (PRACTICAL)

PAPER 3

TIME: 2½ HOURS

SCHOOL…… SIGN……

CONFIDENTIAL.

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.

CEKENAS CLUSTER 2026 KCSE MOCK

SERIES 2 EXAM TEST

PHYSICS

232/3 (PRACTICAL)

PAPER 3

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.*

(b) *Mathematical tables and non-programmable calculators may be used.*

(c) *This paper consists of section A and section B.*

(d) *Attempt all the questions in the spaces provided.*

(e) *ALL working MUST be clearly shown.*

FOR EXAMINERS USE

QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
1	18	
2	22	
TOTAL	40	

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

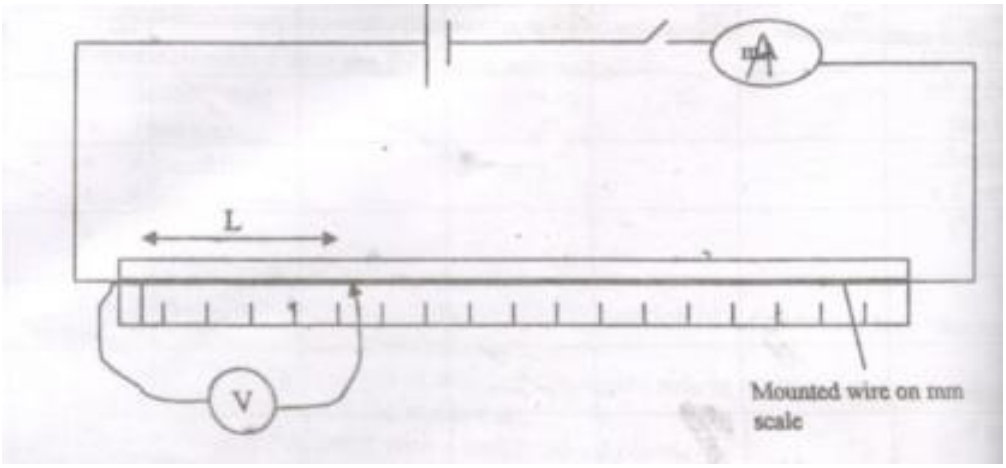
d_1= _____ mm

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.

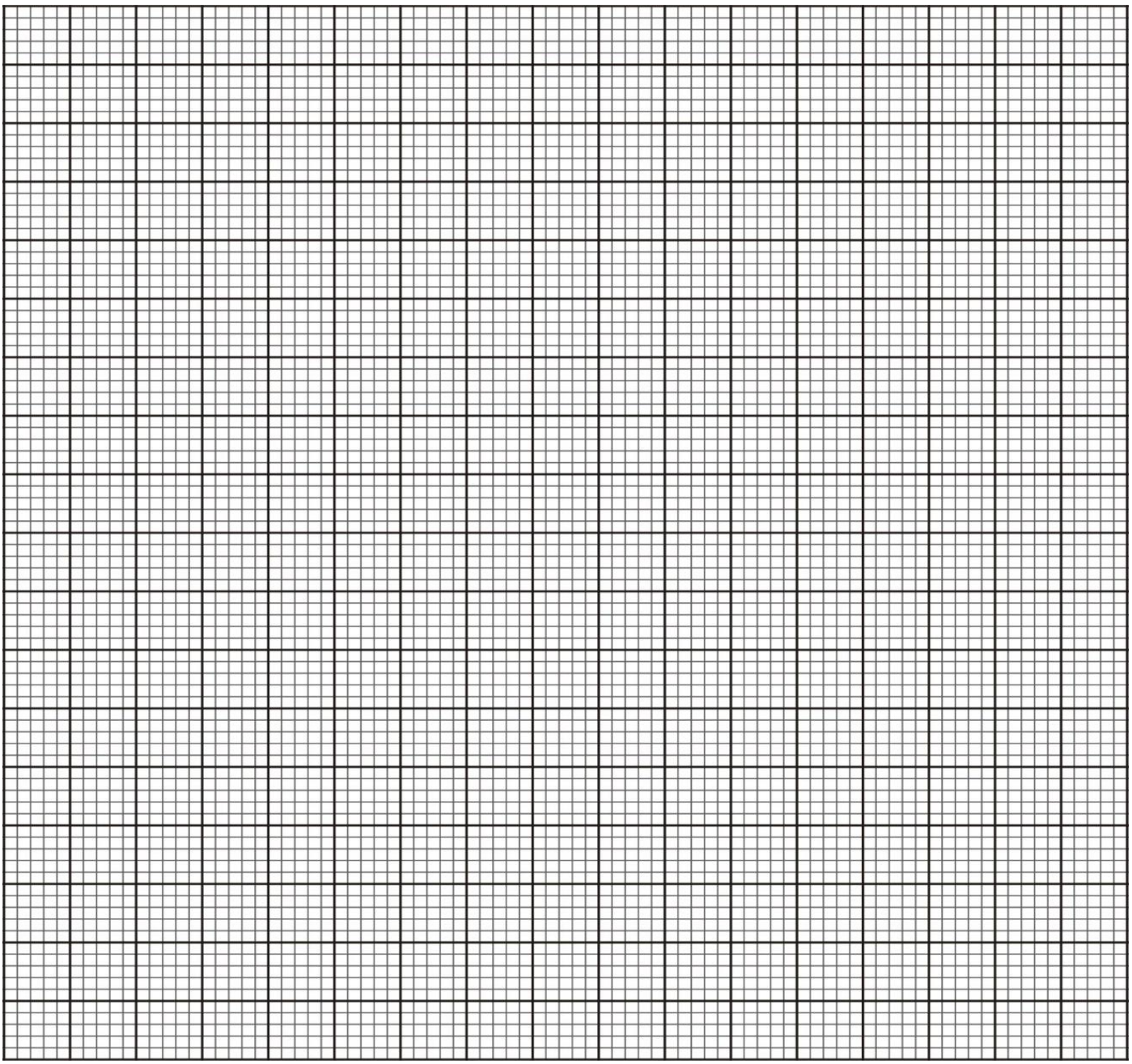
c) Tap the wire at L= 20cm, close the switch, read and record in the table the ammeter and voltmeter reading.

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. QUESTION 2

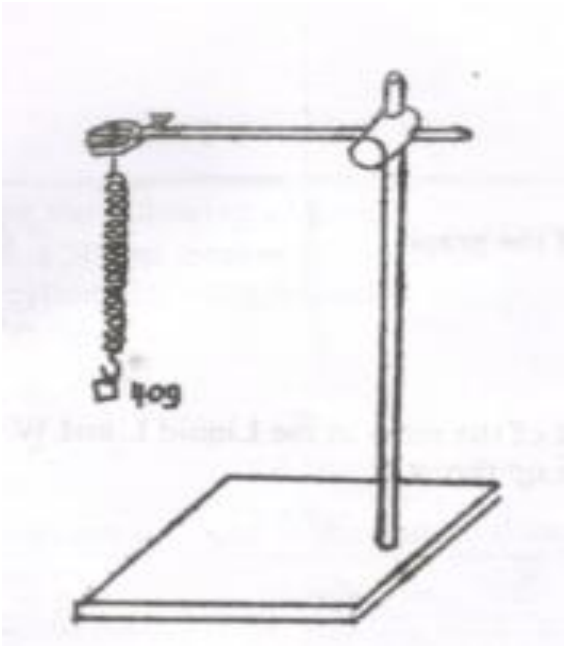
Part 1

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

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.

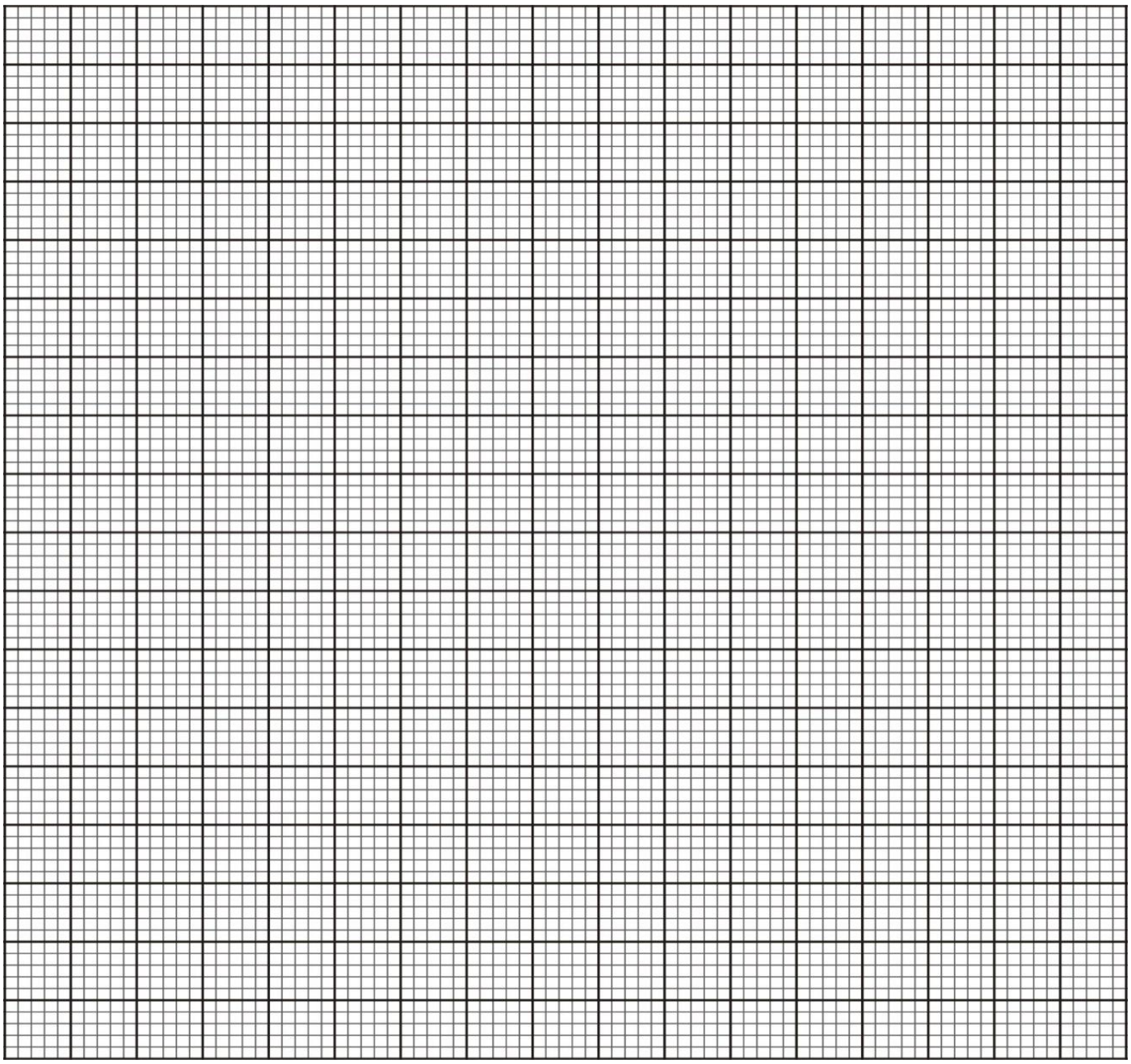
d) Determine the periodic time T in the table.

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)

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 $\mathbf{T^2=\frac{4\pi^2 m}{w}}$

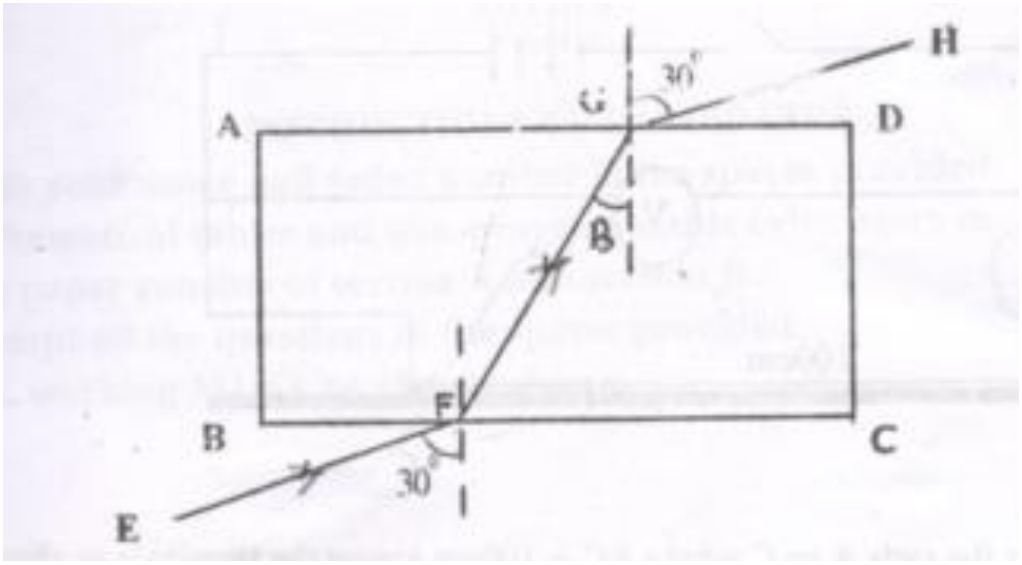
Determine the value of **w**. **(3mks)**

Part II

You are provided with a glass block, 4 optical pins, a soft board, one plain paper.

b) 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.

c) 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)**

CEKENAS CLUSTER 2026 KCSE MOCK

SERIES 2 EXAM TEST

AGRICULTURE

443/1

PAPER 1

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTION TO CANDIDATES

a) *Write your name an index number in the space provided above*

b) *This paper consist of three sections **A** **B** and **C***

c) *Answer **ALL** questions in section **A** and B and Any Two questions from section **C***

d) ***ALL** answers must be written in the space provided after every question*

EXAMINERS USE ONLY

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
A	1-15	30	
B	16-23	20	
C	24-26	40	
	TOTAL	90	

SECTION A (30 MARKS)

Answer all questions in this section in the spaces provided

1 a) Give **TWO** characteristics of intensive farming system **(1mk)**

……

……

b) State **TWO** advantages of mixed cropping **(1mk)**

……

……

……

2. State **TWO** roles of humus in the soil **(1mk)**

……

……

……

3. List **FOUR** effects of temperature on crop growth **(2mks)**

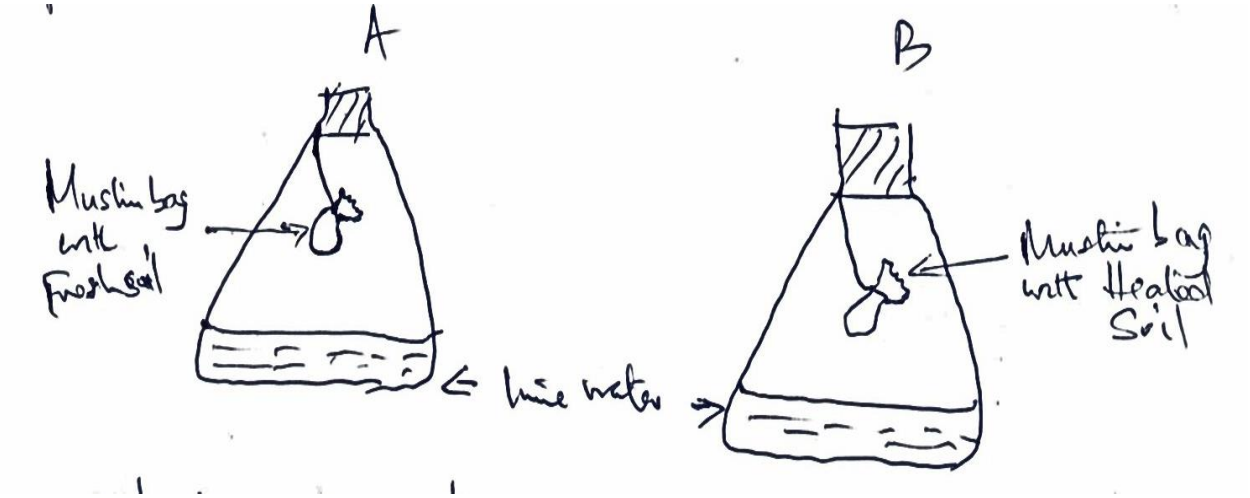
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4. Diagram below shows an experiment carried out by Form 1 students. Study and answer the questions that follows.



a) What is the objective of the experiment

…… **($\frac{1}{2}$mks)**

b) What observation should be made after 12 hours in flask **A** and **B** **(1mk)**

A ……

B ……

c) Give the reason for your observation **(1mk)**

5. Give **THREE** factors that determines the depth of ploughing in land preparation **($1\frac{1}{2}$mks)**

……

……

……

6 a) what is minimum tillage **(1mk)**

……

……

(b) Give **FOUR** practices that encourages minimum tillage **(2mks)**

……

……

……

……

7 a) State **TWO** types of irrigation carried out in Kenya **(1mk)**

……

……

(b) List **FOUR** uses of water on the farm **(2mks)**

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8. Give **THREE** reasons for keeping health record in the farm **($1\frac{1}{2}$mks)**

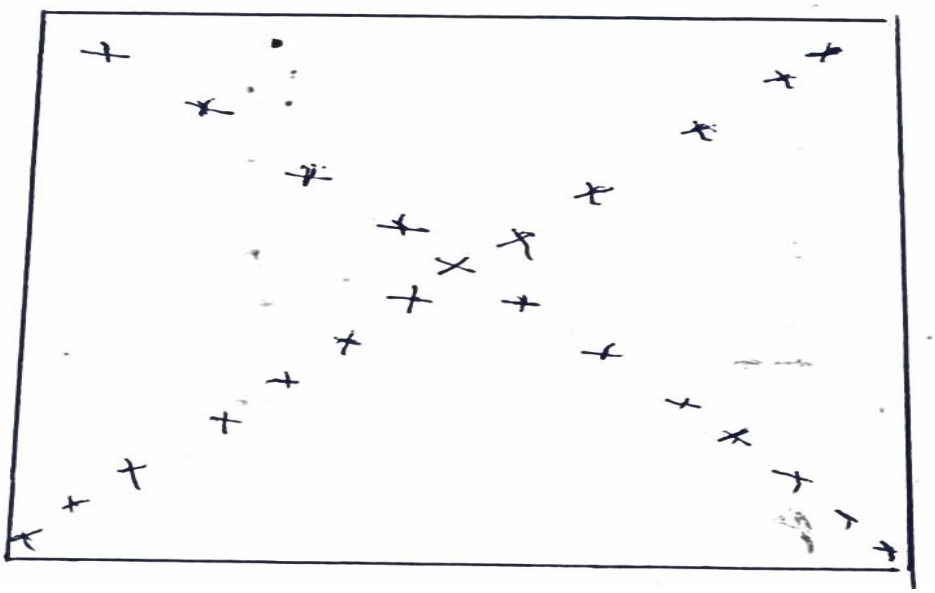
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9. The diagram below shows a method of soil sampling



a) Name the method illustrated above

……**($\frac{1}{2}$mk)**

b) State **THREE** precautions taken when collecting a soil sample **($1\frac{1}{2}$mks)**

……

……

……

……

c) Give **FOUR** reasons for testing soil **(2mks)**

……

……

……

……

10. State **TWO** reasons for seed treatment **(1mk)**

……

……

……

11. .Give **TWO** factors that determine spacing of beans **(1mk)**

……

……

12. State **FOUR** benefits of farmer having land tittle deed **(2mk)**

……

……

……

……

13. List **THREE** materials that can be used to construct a gabion **(1 $^{1}/_{2}$mks)**

……

……

……

14. List **FOUR** harmful effects of crop pests **(2mks)**

……

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……

15. Give **FOUR** ways by which a farmer can improve labour productivity on the farm **(2mks)**

……

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……

SECTION B (2O MARKS)

16. Differentiate between cropping and harvesting in fish farming **(2mks)**

……

……

……

……

17. Give **THREE** factors that determine the quality of shading forage **(3mks)**

……

……

……

18. State **four** characteristics of extensive farming systems **(2mks)**

……

……

……

……

19. State **TWO** factors that determine selectivity of herbicides **(2mks)**

……

……

20. Give **TWO** factors affecting the quality of hay **(2mks)**

……

……

21. State **four** physical factors in soil formation **(2mks)**

……

……

……

……

22. State **four** factors that determine the depth of planting. **(3mks)**

……

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……

……

23. State **four** harmful affects ticks on livestock. **(2mks)**

……

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SECTION C (40MARKS)

Answer Any TWO questions in this section

24 (a) Explain **FIVE** cultural methods of pest control **(10mks)**

(b) Outline **FIVE** factors considered in timely planting of annual crops **(10mks)**

25 (a) Outline the process of land Adjudication **(5mks)**

a. Discuss **five** reasons for carrying out minimum tillage. **(5 marks)**

b. Explain **5** ways in which soil losses fertility. **(10 marks)**

26 (a) Describe **seven** field management practices in tomato production. **(7marks)**

b. Outline **five** factors that determine water requirements in an animal's body. **(5 marks)**

c. Describe the transplanting of tree seedlings. **(8 marks)**

CEKENAS CLUSTER 2026 KCSE MOCK

SERIES 2 EXAM TEST

AGRICULTURE

443/2

PAPER 2

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

1 *Write your name, school, index number and signature in the spaces provided above.*

2 *THIS PAPER CONSIST WITH THREE SECTIONS A , B and C. Answer all questions in sections A and B. Answer any two questions from section C.*

3 *Answers to all questions should be written in the spaces provided.*

FOR EXAMINERS USE ONLY

SECTION	*QUESTIONS*	*MAXIMUM SCORE*	*CANDIDATE'S SCORE*
A	1 – 18	**30**	
B	19 – 23	**20**	
C		**20**	
		20	
	TOTAL SCORE	**90**	

SECTION A (30 Marks)

Answer ALL questions in the spaces provided

1 Name the pig breed which has the following characteristics: long, large, and white body, broad and dished face, upright ears. **(½ mk)**

……

2 Name two non-infectious causes of livestock diseases. **1mk**

……

……

3. Name **four** materials that are collected by bees. **(2mks)**

……

……

……

……

4.Give two reasons for the two month dry period the cow requires before parturition **(1mks)**

……

……

5. Outline four ways of controlling egg eating in poultry. **(2mks)**

……

……

……

……

6. (a) Name the cause of milk fever**.** **(½ mk)**

……

……

(b) Give one control measure of milk fever**.** **(½ mk)**

……

……

7.State **three** field conditions under which a disc plough should be used instead of a mouldboard plough**.** $(\mathbf{1\frac{1}{2}mks})$

……

……

……

8. (a) State two disadvantages of using metal frames in construction of farm building. **(1mk)**

……

……

(b) Give three reasons for seasoning timber**.** **(1 ½ mks)**

……

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……

9.List four factors that influence the pulse rate of an animal **(2 mks)**

……

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……

10. State **four** qualities of colostrum which make it suitable for feeding newly born calf. **(2mks)**

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……

11 . Name **two** dual purpose breeds of cattle **1mk**

……

……

……

12. Outline **four** reasons for swarming of bees. **(2mks)**

……

……

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……

13. State **four** reasons for steaming up in animal production. **(2 mks**

……

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……

14. Give **two** causes of high mortality in piglets. **(1mk)**

……

……

15. (a) What is a notifiable disease**?** **(1mk)**

……

……

(b) Name **four** examples of notifiable diseases in livestock. **(2mks)**

……

……

……

……

16. Give **three** reasons why drenching alone is not an effective method of controlling intestinal parasites in livestock**.** $(\mathbf{1\frac{1}{2}mk}$

……

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17. State **four** qualities of eggs preferred by consumers in the market **(2 mks)**

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18. Give **four** light breeds of chicken in poultry rearing. **(2mks**

……

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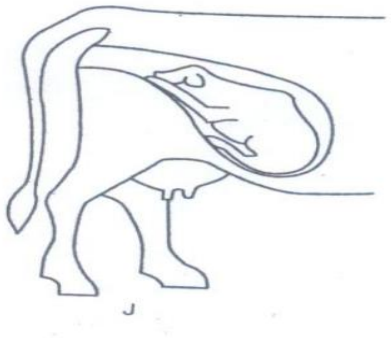
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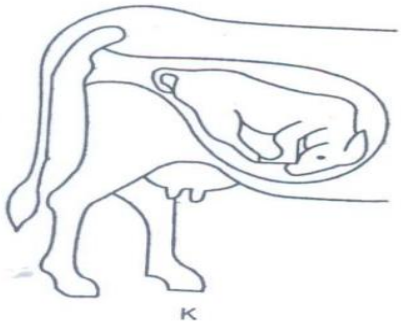
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SECTION B (20 Marks)

Answer all questions in this section in the spaces provided after every question

19. The illustration below show different presentation of foetus at the time of birth. Study the illustrations and answer questions that follow.





(a) What diagram represents the normal position of a calf at birth **(1mk)**

……

(b) What term is used to refer to position shown in diagram **K**? **(1mk)**

……

(c) State three signs of parturition in cattle. **(3mks)**

……

……

……

20. Observe the tools A, B and C illustrated below then answer the questions that follow.







a) Name tools A, B and C and state the correct use of each tool. **(3mks)**

Tool	Identity	Function
A		
B		
C		

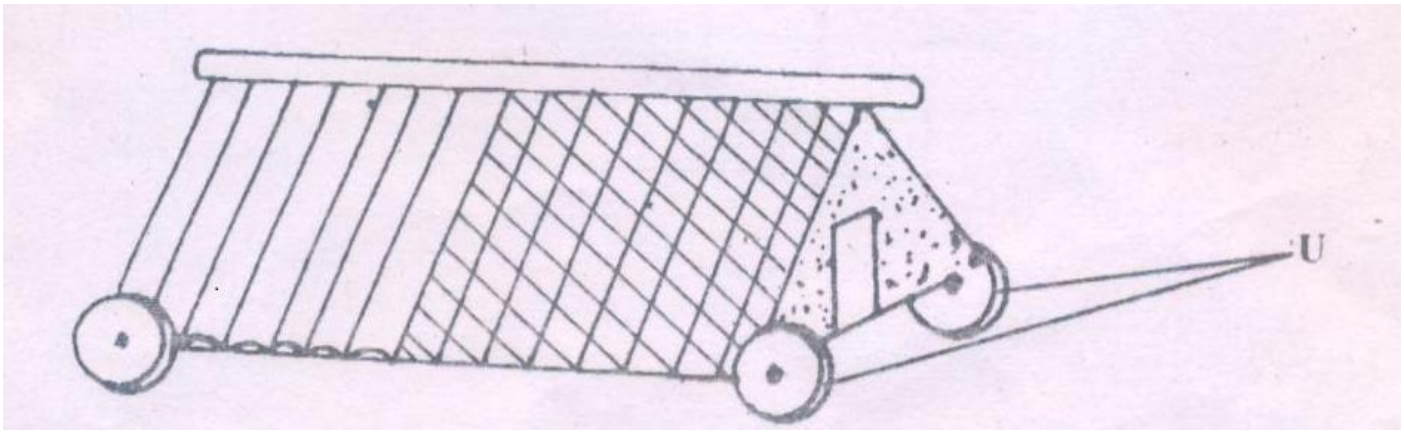
b) State **two** maintenance practices that should be carried out to ensure that tool C is in a good working condition**.** **(2mks)**

……

……

……

21. The diagram below represents a poultry keeping structure.



(i) Identify the structure**.** **(½ mk)**

……

ii) Identify the part labeled **U**. **(½ mk)**

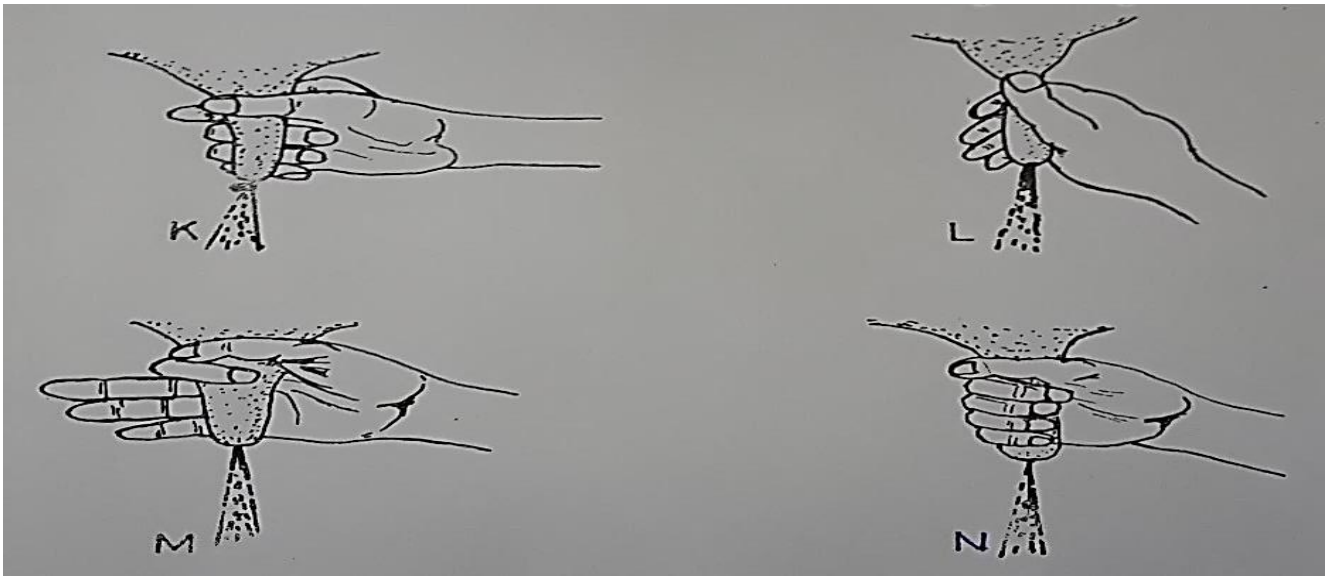
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iii) State the maintenance carried out on the structure illustrated above. **(1mk)**

……

……

22. The diagrams **K, L, M** and **N** below show four possible ways of drawing milk from the teat of a cow during milking.



a) Which diagram shows the proper way of drawing milk. **(1mk)**

……

b) How long should it take to milk a cow from the start to the end of milking. **(1mk)**

……

c) How would a milkman ensure that no milk remains in the udder at the end of milking? **(1mk)**

……

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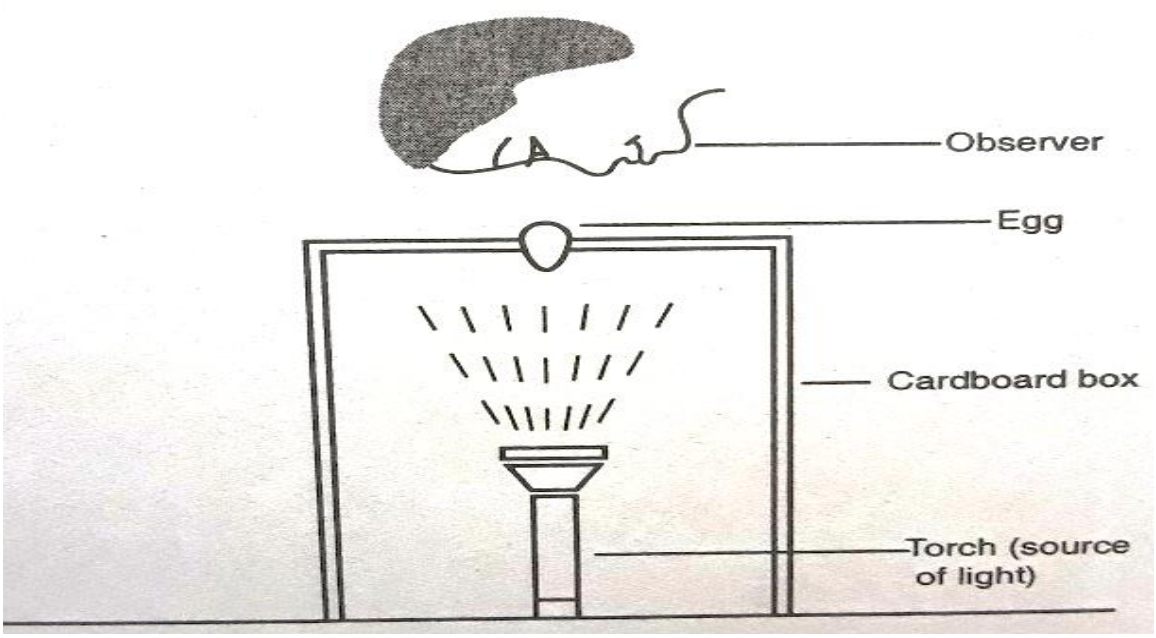
d) Give **two** practices carried out on milk immediately after milking. **(2mks)**

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……

23. Below is an illustration of an activity carried out by a poultry farmer keeping layers



a) Identify the activity carried out using the set-up**.** **(1mk)**

……

b) State **two** abnormalities in eggs that can be detected using the set-up above. **(1mk)**

……....

c) How can a farmer improve the following?

i. Hardness of egg shells. **(½ mk)**

……

ii. Yellowness of the egg yolk. **(½ mk)**

……

SECTION C (40 Marks)

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

24.. Describe fish management under the following sub headings

a) Procedure for establishing a pond. **10mks**

c) Stocking the pond. **3mks**

d) Management practices that would ensure maximum harvest of fish from the pond. **5mks**

e) Methods of preserving fish. **2mks**

25.a) State the functions of any **six** parts of a plunge dip. **(6mks)**

b) State and explain **four** factors considered when selecting a breeding stock. **(4mks)**

c) Explain **five** mechanical methods of controlling ticks. **(10mks)**

26 a) State **five** advantages of embryo transplant. **(5mks)**

b) Describe coccidiosis disease under the following sub- headings.

i. Animals attacked **(2mks)**

ii. Causal organism **(1mk)**

iii. Symptoms **(4mks)**

iv. Control measures **(3mks)**

d) A ration containing 20% DCP for growing chicks is to be obtained by mixing ground maiz containing 10% DCP and fishmeal containing 50% DCP. Calculate the amount of each feedstuff in kilograms required to prepare 200kg of the feed **(5mks)**

CEKENAS CLUSTER 2026 KCSE MOCK

SERIES 2 EXAM TEST

BUSINESS STUDIES

565/1

PAPER 1

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS:

i.*Answer all questions*

ii.*Write the answers in the spaces provided*

iii.*Answers should be written in English*

For official 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	TOTAL
Marks													

Answer all questions

1. State four advantages of a partitioned office layout to the office staff. **(4mks)**

……

……

……

……

……

2. For each of the farm resources given below, identify the appropriate factor reward **(4mks)**

RESOURCE		**FACTOR REWARD**
i.	Farm yard	……..
ii.	Farm guards	……..
iii.	Farm owner	……
iv.	Livestock	……

3. List the principle of insurance that was violated in each of the following instances given below **(4mks)**

INSTANCE	**PRINCIPLE**
A car owner was paid ksh. 400,000 when his car worth ksh. 390,000 was stolen	……..
Okado insured his neighbors retail shop against robbery	……..
A school was compensated when its bus got burnt by rioting students yet it had been insured against a road accident	……..
A hotel owner took away remains of items destroyed by fire being fully paid for the damages	……...

4. Give four reasons why business firms participate in conserving the environment **(4mks)**

……

……

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……

5. State four measures that a county government may take to improve the quality of its services to the residents of the county **(4mks)**

……

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……

6. Outline four reasons that make human wants difficult to satisfy **(4mks)**

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7. Give four types of small scale retail businesses that can operated without shops. **(4mks)**

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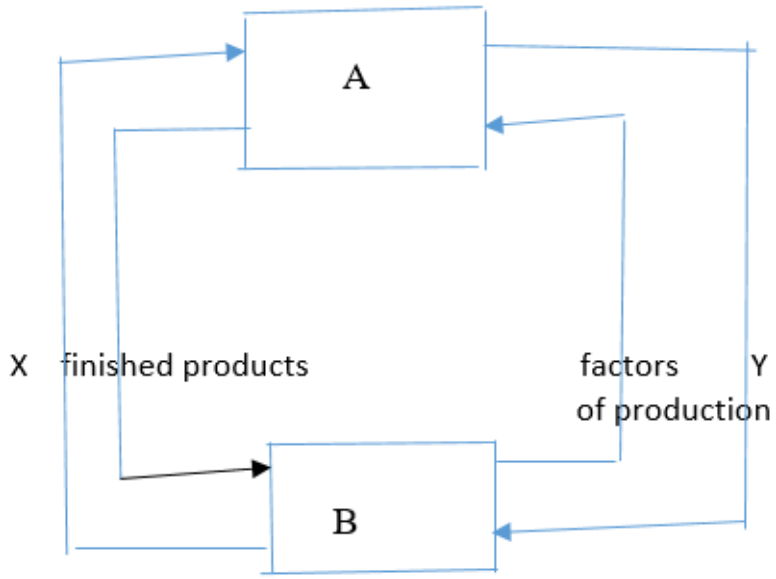
……

8. The information below was extracted from the books of Khadudu Hardware's for the year 2019

	Ksh.
Capital (31/12/2019)	980,000
Investment	300,000
Monthly drawings	10,000
Capital (01/01/2019)	600,000

Required; determine the net profit for the year **(3mks)**

9. The diagram below shows the circular flow of income in a two sector economy



a. Name the economic agent marked A and B

i. A ……

ii. B……. **(2mks)**

b. Identify the expenditure represented by the arrows X and Y

i. X……

ii. Y…….. **(2mks)**

10. Highlight four advantages of a private warehouse to a manufacture **(4mks)**

……

……

……

……

11. Give four disadvantages of using mobile phones for communication in an organization **(4mks)**

……

……

……

……

12. Outline three differences between monopoly and oligopoly as product markets. **(3mks)**

MONOPOLY	**OLIGOPOLY**

13. State four measures that the Central Bank can take to reduce inflation in the country **(4mks)**

……

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……

……

14. Give four reasons why governments impose taxes on incomes **(4mks)**

……

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15. The diagram below shows a change in the supply of a farm products in a market



Outline four circumstances under which the supply curve would shift from S_1S_1 to S_2S_2 **(4mks)**

……

……

……

……

……

16. For each of the business transactions given below name the ledger account to be debited and to be credited **(4mks)**

TRANSACTION	DR.	CR.
Proprietor took goods worth Ksh. 2000 for family use		
Goods valued at Ksh. 4500 were sold on credit		
A cheque of Ksh. 8000 was issued by the business in payment of rent		
The business withdrew Ksh. 15,000 from the bank account for office use		

17. State FOUR disadvantages of pipeline transport **(4mks)**

……

……

……

……

18. The information below relates to Musoma Bookshop for the year ended 30.09.2020

Sales	Ksh. 1,500,000
Opening stock	Ksh. 250,000
Purchases	Ksh. 1,300,000
Mark up	25%

Determine:

i. Gross profit **(2mks)**

ii. Cost of sales **(2mks)**

19. Mrs. Obote sells a variety of fruits, vegetables and cereals in a market stall located in an urban market. Identify four methods that she may use to increase her volume of sales **(4mks)**

……

……

……

……

20. List the type of unemployment that suits each of the descriptions below **(4mks)**

Description	Type of unemployment
A large number of laborers crowded on a small piece of work.	
School leavers without information on where to get a job.	
Many people kept out of employment because of physical disabilities.	
A female job seeker opting to get married instead of being idle.	

21. Highlight four population characteristics of a country that is economically underdeveloped **(4mks)**

……

……

……

……

22. Give four reasons why some producer firms carry out production close to the product market **(4mks)**

……

……

……

……

23. Outline four circumstances under which a manufacturer would not require the services of middlemen **(4mks)**

……

……

……

……

24. List four ways used to classify partners in a business **(4mks)**

……

……

……

……

25. The two column cash book below is incomplete

Date	**Details**	**F**	**Cash**	**Bank**		**Date**	**Details**	**F**	**Cash**	**Bank**
2020			(Ksh.)	(ksh.)		2020			(ksh)	(ksh)
Jan1	Capital		350,000	150,000		Jan3	Rent			T
10	Sales		Q			4	Purchases		200,00	
18	Cash			250,000		18	Bank	C1	P	
28	Debtors		70,000			25	Electricity			15,000
						31	balance	c/d	R	345,000
			600,000	400,000					600,000	S

Determine the missing values represented by letters **P, Q, R, S** and **T**

i) P…….

ii) Q…….

iii) R…….

iv) S…….

v) T…….

CEKENAS CLUSTER 2026 KCSE MOCK

SERIES 2 EXAM TEST

BUSINESS STUDIES

565/2

PAPER 2

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES;

a) *Write your name and admission 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 spaces provided after question six.*

e) *All questions carry equal marks*

FOR EXAMINERS USE ONLY.

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

1. a) Explain five factors to consider when choosing office equipment. **(10marks)**

b)Explain the causes and remedies of the following types of unemployment. **10 marks)**

i) Seasonal unemployment
ii) Structural unemployment
iii) Disguised unemployment
iv) Residual unemployment
v) Involuntary unemployment

2. a) Explain **five** importance of insurance to an economy. **(10marks)**

b) On 1st march 2019, Ukwala traders had ksh 95,000 in hand and a bank overdraft of ksh 15,000. During the month, the following transactions took place.

March 2: Bought goods for resale in cash ksh 68,000.
March 3: Cash sales banked, ksh 22,000
March 9: Paid Anyang' a creditor ksh, 12,880 by cheque in full settlement of his account after deducting 8% cash discount.
March 11: Paid salaries ksh 14,000 in cash.
March 16: Received a cheque of ksh 40,200 from Sakaya after allowing him a cash discount of ksh 1,800.
March 20: Shamim, a debtor paid her account of ksh 55,000 by cheque less 10% cash discount.
March 24: Withdraw 26,000 from bank for office use.
March 27: Took ksh 9,000 cash to pay his brother's medical bill.
March 28: Deposited all the cash into bank except ksh 14,400.

Required: prepare a three-column cashbook and balance it off. **(10 marks)**

***3.* a)** Explain **five** features of oligopoly. **(10 marks)**

b) Explain the difference between partnerships and cooperative societies forms of business units. **(10marks)**

4. a) Explain **five** reasons for continued existence of small firms in an economy. **(10marks)**

b) Outline **five** channels that can be appropriate for the distribution of exporting tea to France. **(10marks)**

5. a) Explain **five** reasons for government involvement in business. **(10 marks)**

b)Explain **five** documents sent by the buyer to the seller in Home trade. **(10marks)**

6. a) Explain **four** unethical practices in product promotion. **(8marks)**

b) The following trial balance relates to the business of OMASAJA Traders for the period ended **31st March 2023.**

OMASAJA TRADERS

TRIAL BALANCE
AS AT 31ST MARCH 2023

	Dr	Cr
	Shs.	Shs.
General expenses	120,000	
Rent expenses	46,000	
Telephone expenses	20,000	
Carriage inwards	28,000	
Salaries	360,000	
Sales		4,000,000
Purchases	2,400,000	
Discount received		36,000
Sales returns	40,000	
Motor vehicle	500,000	
Debtors	300,000	
Stock (1st April 2022)	200,000	
Land and buildings	2,000,000	
Cash at bank	120,000	
Cash in hand	12,000	
Capital		1,850,000
Drawings	80,000	
Creditors		240,000
	6,226,000	6,226,000

Additional information

Stock as at 31st March 2023 was valued at ksh. 100,000

Prepare:

i) A Trading profit and loss **(7marks)**

ii) A Balance sheet **(5marks)**

CEKENAS CLUSTER 2026 KCSE MOCK

SERIES 2 EXAM TEST

MATHEMATICS

121/1

PAPER 1

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

1. *Write your name, Admission number and class in the spaces provided.*
2. *Sign and write date of the examination in the spaces provided.*
3. *The paper contains TWO sections: Section A and B*
4. *Answer ALL questions in section I and **STRICTLY ANY FIVE** questions from section II.*

FOR EXAMINERS USE ONLY

SECTION A

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	TOTAL

SECTION B

17	18	19	20	21	22	23	24	25	26	27	TOTAL

SECTION A (50MKS)

ANSWER ALL THE QUESTIONS IN THIS SECTION

1. Simplify $\dfrac{\left(1\frac{3}{7}-\frac{5}{8}\right)+\frac{2}{3}\ of\ 1\frac{1}{5}}{\frac{3}{4}+1\frac{5}{7}\div\frac{4}{7}\ of\ 2\frac{1}{3}}$ **(4mks)**

2. A straight line ax + by = 16 passes through A (2, 5) and B (3, 7). Find the values of a and b **(3mks)**

3. Simplify $\frac{2-x-x^2}{3x^2-2x-1}$ **(3mks)**

4. Solve for X where $0 \leq x \leq = \ 90^0$

$\sin 2x \ - \cos(x - 30) = 0$ **(2mks)**

5. Solve for X in

$$2x - 4 \ \leq 3x + 2 \ < 10 - x$$

Hence represent your solution on a number line **(3mks)**

6. Two similar cylindrical solids have heights of 18 cm and 24 cm. The volume of the larger cylinder is $320cm^3$, find the volume of the smaller cylinder **(4mks)**

7. Solve for X **(3mks)**

$$8^{3x-2} \; x \; 16^{\frac{1}{2}X} = \frac{1}{4}$$

8. A quantity P varies jointly as Q and inversely as on the square root of R. If Q is increased by 10% and R is reduced by 19%, find the percentage change in P **(3mks)**

9. Okedi sold goods whose marked price is sh. 340,000 at a discount of 2%. He was paid sh. 16660 as commission for the total sales. Calculate the percentage rate of commission

(3mks)

10. The interior angle of a regular polygon is three and a half times the exterior angle. Determine the sides of the polygon **(3mks)**

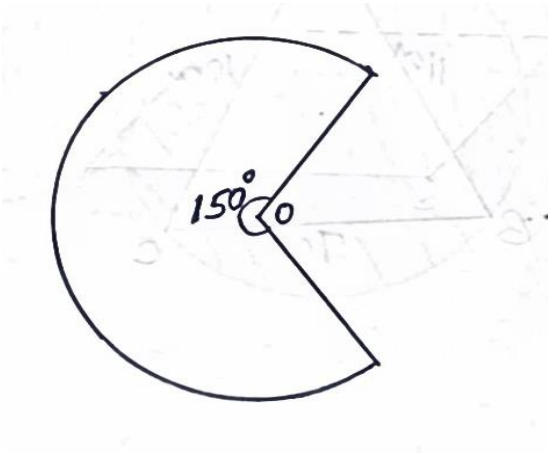
11. Give that A = $\begin{pmatrix} 2 & 3 \\ 1 & 4 \end{pmatrix}$, $B \begin{pmatrix} -1 & 3 \\ 2 & -1 \end{pmatrix}$;find matrix C where AC = B **(3mks)**

12. Amoit bought 2 pens and 5 exercise books at a cost of sh. 275. Allan bought 4 such pens and exercise books from the same shop at a cost of sh. 415 by letting sh. X and y to be the costs of a pen and a book respectively, find the cost of each item **(4mks)**

13. Okech left some money in his will to be shared amongst his wife, son and daughter in the ratio 4:3:2 respectively. If the daughter received sh. 120,000 less than the mother's share, find the total amount of money Okech left in his will. **(2mks)**

14. Use tables of reciprocals to find the reciprocal of 0.3758. Hence find the value $\frac{\sqrt[3]{0.125}}{0.3758}$ correct to 4.S.f **(4mks)**

15. A major sector of a circle subtends an angle of 150 at the centre. The radius of the circle is 7cm and the centre is at O as shown



If the sector is folded into a conical shape, calculate the radius of the cone correct to 1 d.p

(3mks)

16. A Kenyan bank buys and sells currencies at the exchange rates below

Currency	Buying (ksh)	Selling (ksh)
1 euro	147.87	148.00
1 us dollar	74.22	74.50

An American tourist arrived in Kenya with 24,000 Euros. He converted all the euros to Kenya shillings at the bank. He spent a total sh. 200,000 while in Kenya and converted the rest into US dollars at the bank. Find the amount in dollars that he received. **(3mks)**

SECTION II (50MKS)

Answer Any Five Questions In This Section

17. The diagonals of a rectangle P, Q, R, S intersect at (5, 3). Given that the equation of line PQ is $4y - 9x = 13$ and that of line PS is $y - 4x = 5$

a) The co-ordinators of P **(3mks)**

b) The co-ordinates of R **(2mks)**

c) The equation of line RQ **(2mks)**

d) The equation of a perpendicular line drawn to meet PR at (5,3) **(3mks)**

18. A bus left Malaba town at 6.00am and travelled at an average speed of 80km/h towards Nairobi which is 510km away. At 6.30am a salon car left Nairobi the same day following the same route and travelled at average speed of 100km/h towards Malaba. After 1 hour, the car had a puncture which took 15minutes to repair before proceeding with the journey;
Determine

a) The distance covered by the bus in 30minutes (**1mks)**

b) The time of the day when car met the bus. **(6mks)**

c) The distance from Nairobi to the point where the car met with the bus **(2mks)**

d) The time of the day to the nearest minute when the bus got to Nairobi **(1mk)**

19. Points P, Q and R are a straight line on a level ground. An electricity pole is erected at P with a point X and Y on it. From point X, the angle of depression of point Q is 48^{o} while the angle of depression of R from Y which is 3m above X is 60^{o}

a) Illustrate the position of X, Y, P and R by sketching. **(1mk)**

b) Hence calculate to 1 d.p.

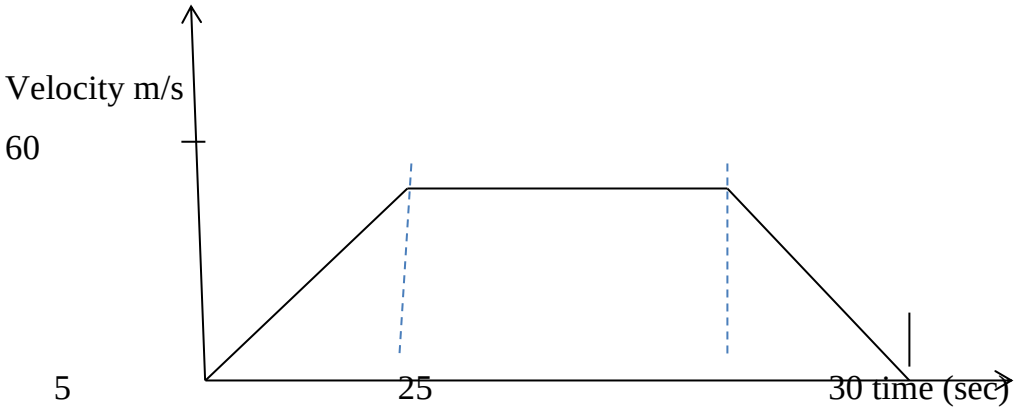
i) The length XP **(3mks)**

ii) The distance YQ **(2mks)**

iii) The distance PQ **(2mks)**

iv) The angle of elevation of Y from R given that PR = 8cm **(2mks)**

20.a) The figure shows a velocity- time graph of a car



i) Find the total distance covered by the car in metres **(3mks)**

ii) Calculate the deceleration of the car **(3mks)**

b) A lorry left kisumu at 8.00am and travelled towards the Nakuru at an average speed of 72km/h. At 8.30am a matatu left kisumu and followed the lorry at an average speed of 96km/h.

Determine the time of the day when the matatu caught up with the lorry **(4mks)**

21. The date below shows marks scored by 48 students in a geography exam.

Marks %	30-39	40-49	50-59	60-69	70-79	80-89
Students	6	10	x	9	12	2

a) Determine the value of x **(2mks)**

b) State the modal class **(1mk)**

c) Calculate the **(3mks)**

i) Mean mark

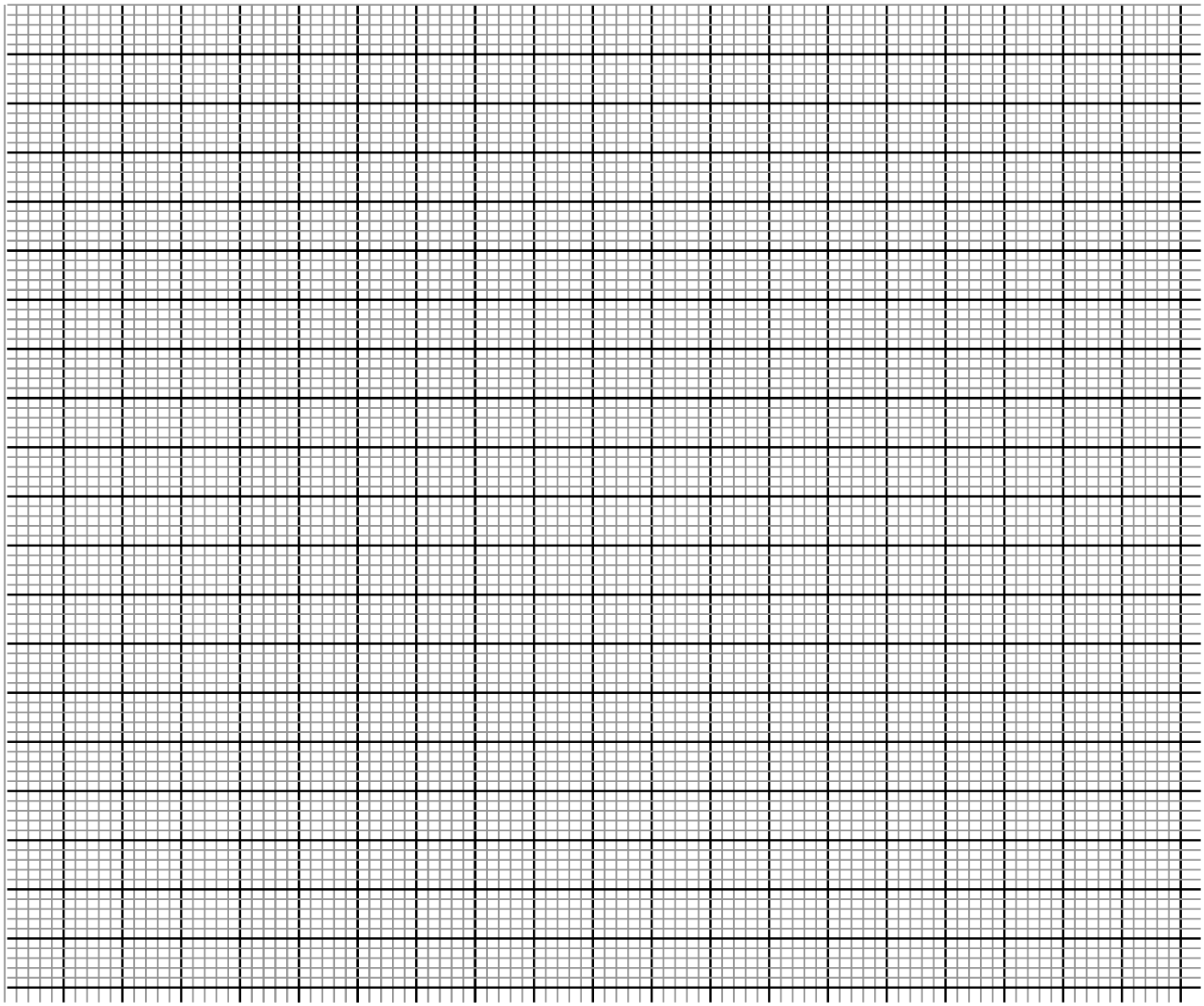
ii) Median mark **(4mks)**

22. a) Complete the table below for the equation $Y = x^2 + 3x - 6$ where $-7 \leq x \leq 4$

x	-7	-6	-5	-4	-3	-2	-1	0	1	2	3	4
y		4			6				-2			

(3mks)

b) Using the scale 1 cm to represent 1 unit on the X- axis and 1cm to represent 2 units on the Y - axis, draw the graph of $y = x^2 + 3x - 6$ for $-7 \leq x \leq 4$ **(4mks)**



c) Use your graph to solve for x in

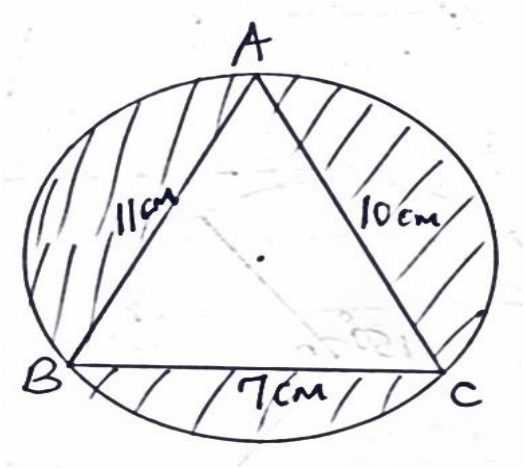
$x^2 + 3x-6 =0$ **(2mks)**

d) State the;

i) Turning point of the curved **(1mk)**

ii) Equation of the line symmetry **(1mk)**

23. The figure shows triangle ABC inscribed in a circle where AC = 10cm, BC = 7cm and AB =11cm



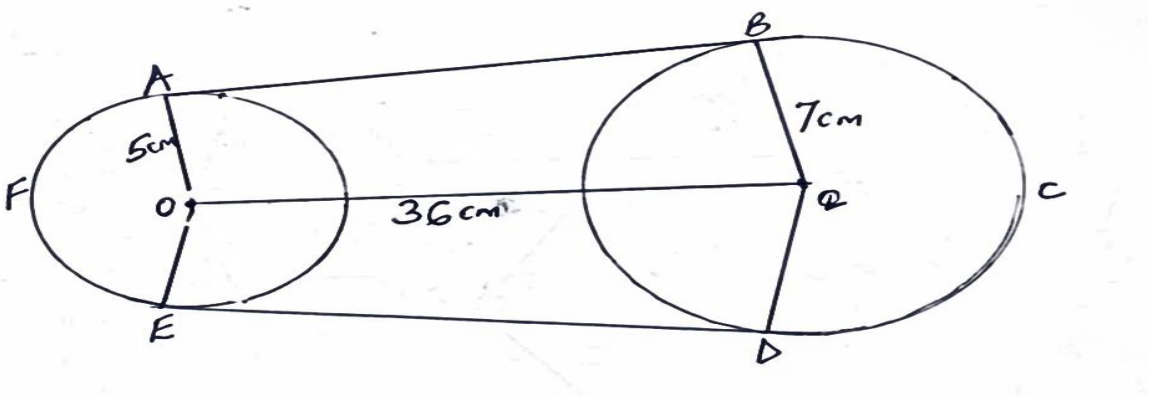
Calculate correct 1 d p ($use\ \pi\ = \frac{22}{7}$)

a) The size of the angle CAB **(4mks)**

b) The radius of the circle **(2mks)**

c) Hence, find the area of the shaded region **(4mks)**

24. ABCDEFGA is a belt tied around two wheels whose centres are O and Q forming a pulley system. Given that Q =36cm, AO = 5cm BQ = 7cm. calculate correct 1 d.p ($Take\ \pi\ = \frac{22}{7}$)



a) Angle AOQ **(3mks)**

b) The length of the belt in contact with

i) The wheel whose centre is O **(2mks)**

iii) The wheel whose centre is Q **(2mks)**

c) The length of AB, hence the total length of the belt **(3mks)**

CEKENAS CLUSTER 2026 KCSE MOCK

SERIES 2 EXAM TEST

MATHEMATICS

121/1

PAPER 1

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

Instructions to candidates

1. *Write your name, index number, date and sign in the spaces provided above.*
2. *The paper contains **TWO** sections: **Section I** and **Section II.***
3. *Answer **ALL** the questions in **Section I** and any **five** questions from **Section II***
4. *All answers and working must be written on the question paper in the spaces provided below each question.*
5. *Non – programmable silent electronic calculators and KNEC Mathematical tables may be used, except where stated otherwise.*
6.

For Examiner's use only.

Section I

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	Total

Section II

17	18	19	20	21	22	23	24	Total

Grand Total

SECTION 1 (50 MARKS)

Answer all the questions in this section

1. Use a calculator to find V if $\frac{1}{V} = \frac{1}{23.9} - \frac{1}{38.45}$ **(2mks)**

2. Solve for X in **Log (7X – 3) + 2 Log 5 = 2 + Log (X+3)** **(3mks)**

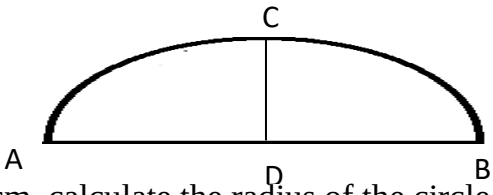
3. A quantity P is partly constant and partly varies as the square of Q. when Q = 2, P = 40 and when Q = 3, P = 65. Determine the equation connecting P and Q **(3mks)**

4. Expand $(1 - \frac{1}{2X})^6$ up to the fourth term; hence use your expansion to evaluate $\mathbf{0.996^6}$ correct to 4 decimal places. **(4mks)**

5. Simplify $\frac{\sqrt{5}+3}{\sqrt{5}-2}$. Give the answer in the form of $a + b\sqrt{c}$ where a, b and c are integers **(3mks)**

6. Given that **X-5**, **X-3** and **2X-3** are three consecutive terms of a geometric progression, find the possible values of X and the ratio **(2X+1):(X+2)** **(4mks)**

7. The figure below is a segment of a circle cut off by a chord AB. Line CD is a perpendicular bisector of chord AB.



If AB is 24cm and CD is 8cm, calculate the radius of the circle. **(3mks)**

8. By completing the square, solve for x in the equation $\mathbf{2x^2 - 6 = x.}$ **(3mks)**

9. Given that $\mathbf{y = \frac{b - bx^2}{cx^2 - a}}$ make x the subject **(3mks)**

10. The base and height of a right-angled triangle are 4cm and 5cm respectively. Calculate the percentage error in its area. **(3mks)**

11. Given that $\mathbf{P} = \begin{pmatrix} \mathbf{5} & \mathbf{3} \\ \mathbf{6} & \mathbf{4} \end{pmatrix}$, find ;

a. Its inverse **(1mk)**

b. The value of x and y if $\mathbf{P}\begin{pmatrix} x \\ y \end{pmatrix} = \begin{pmatrix} 3 \\ 2 \end{pmatrix}$ **(3mks)**

12. The equation of a circle is given by $x^2 + y^2 + 6x - 10y - 30 = 0$. Determine the radius and center of the circle **(3mks)**

13. Find the value of X which satisfies the equation $5^{2x} - 6\times5^{x} + 5 = 0$ **(3mks)**

14. A scooter mixes oil and petrol in the ratio 5:19. If petrol costs Ksh. 130 per liter and oil costs Ksh. 250 per liter, find the cost of a liter of the mixture. **(2mks)**

15. Solve the pair of equations simultaneously **(4mks)**

$2x - y = 3$

$x^2 - xy = -4$

16. The cash price of a water pump is Ksh. 38,000. Mr. Ahero opts to buy the pump on hire purchase terms by paying a deposit of Ksh. 6,500 and 24 equal monthly installments. Calculate the amount of each installment, if simple interest of 20% p.a is charged. **(3mks)**

SECTION II (50 MARKS)

Attempt any five questions in this section

17. The first term of an arithmetic sequence is equal to the first term of the geometric sequence. The second term of the arithmetic sequence is equal to the fourth term of the geometric sequence, while the tenth term of the arithmetic sequence is equal to the seventh term of the geometric sequence.

a. Given that a is the first term and d is the common difference of the arithmetic sequence while r is the common ratio of the geometric sequence, write down two equations connecting the arithmetic and geometric sequences. **(2mks)**

b. Find the value of **r** that satisfies the geometric sequence **(4mks)**

c. Given that the tenth term of the geometric sequence is 5120, find the values of **a** and **d** **(2mks)**

d. Calculate the sum of the first 20 terms of the arithmetic sequence **(2mks)**

18. Three quantities R, S and T are such that R varies directly as S and inversely as the square of T.

a. Given that R = 480 when S = 150 and T = 5, write an equation connecting R, S and T **(3mks)**

b. Find,

i. the value of R when S = 160 and T = 1.6 **(3mks)**

ii. the percentage change in R if S increases by 5% and T decreases by 20% **(4mks)**

19. The table below shows income tax rates

Monthly income in Kenya shillings (Ksh)	**Tax rate % in each shilling**
Up to 9680	10 %
From 9681to18800	15 %
From 18801 to 27920	20 %
From 27921 to 37040	25 %
From 37041 and above	30 %

In that year Okumu's salary amounted to K£ 45,000 p.a and he received allowances totaling Ksh. 300,000 p.a. He was entitled to:-

(i) Monthly personal relief of Ksh. 1,056

(ii) Monthly insurance relief at the rate of 15% of the premium paid

Okumu paid a monthly premium of Ksh. 2,500 towards his life insurance policy

Calculate

(a) His gross monthly income in Ksh **(2mks)**

(b) The monthly income tax he pays **(5mks)**

(c) His net monthly income, if his other monthly deductions were: - Ksh. 4,800 to HELB, Ksh. 5,000 to his co-operative and Ksh. 2,800 towards a bank loan repayment. **(3mks)**

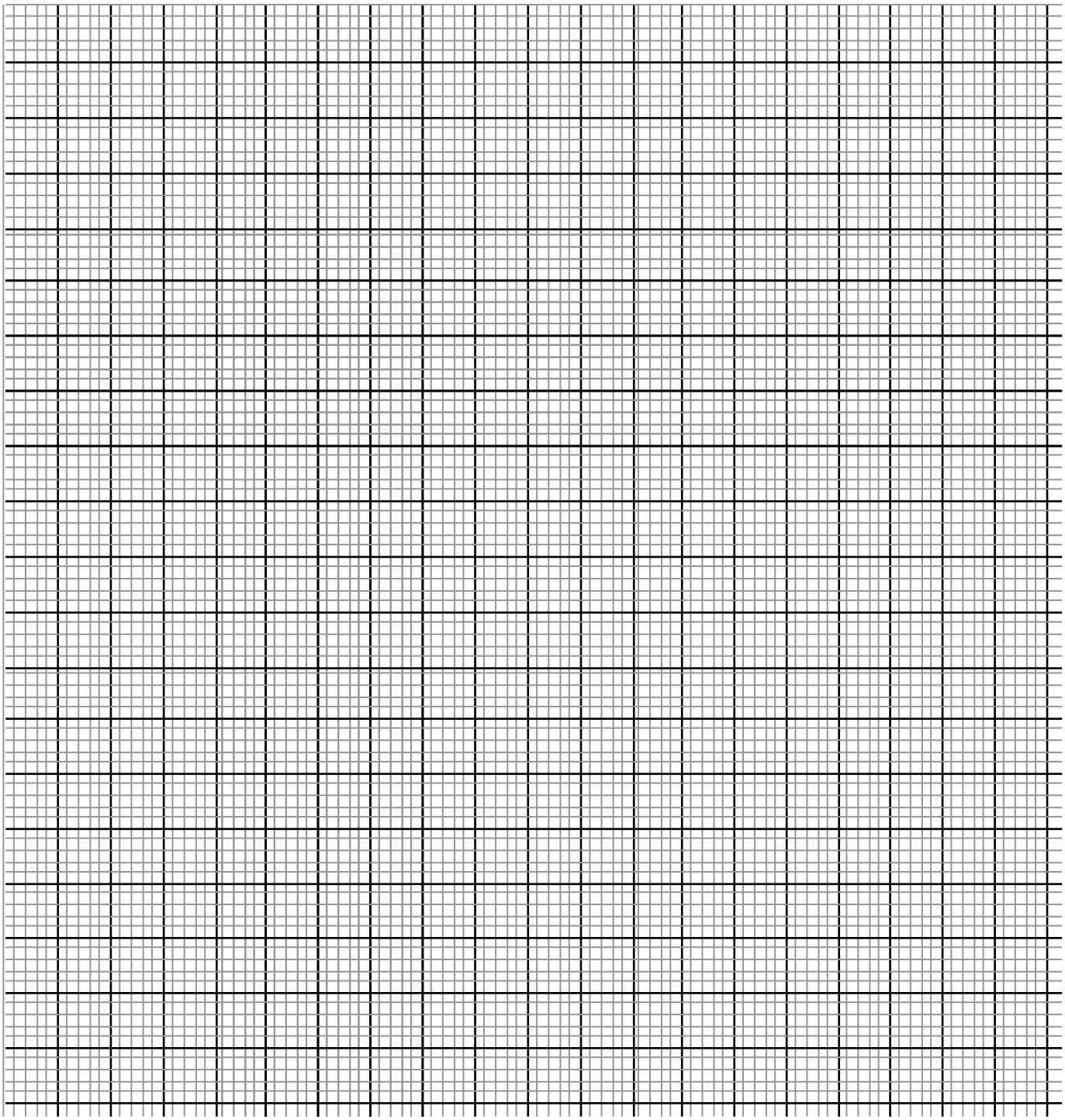
20. Square OABC with vertices O(0,0),A(2,0), B(2,2) and C(0,2) is mapped onto O'(0,0), A'(2,0), B'(5,2) and C'(3,2) by the matrix **T** = $\begin{pmatrix} a & b \\ c & d \end{pmatrix}$

a. Find T **(3mks)**

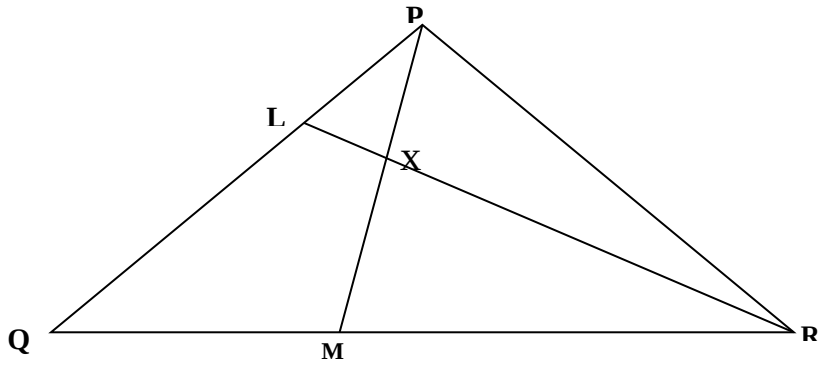
b. Draw O'A'B'C' and reflect it on the line x + y = 0 to obtain O"A"B"C" **(4mks)**

(attach graph paper)

c. What single matrix P maps OABC to O"A"B"C" **(3mks)**



21. In the triangle PQR below L and M are points on PQ and QR respectively such that PL: LQ = 1:3 and QM: MR = 1:2, PM and RL intersect at X. Given that **PQ = b** and **PR=c**,



a. Express the following vectors in terms of **b** and **c**.

i. **QR** **(1mk)**

ii. **PM** **(1mk)**

iii. **RL** **(1mk)**

b. By taking **PX =** *h***PM** and **RX =** *k***RL** where ***h*** and ***k*** are constants find two expressions of PX in terms of *h*, *k*, b and c. Hence determine the values of the constants ***h*** and ***k***. **(6mks)**

c. Determine the ratio **LX : XR** **(1mk)**

22. During a traffic crackdown, 1,000 motor cycles were sampled. 250 of these were found to lack necessary driving gear, 200 had no valid insurance and 300 lacked the driving license. Taking the sample to represent all motorcycles in the country;

a. Represent the information in a tree diagram **(3mks)**

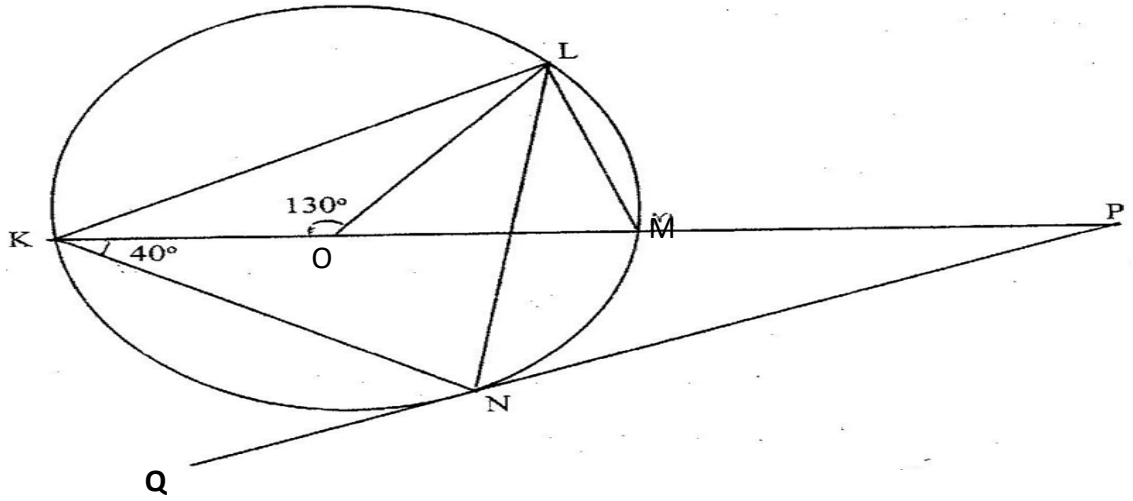
b. Find the probability that, a motorcyclist at any given time

i. Has no driving license **(3mks)**

ii. Lacks a valid insurance but is in proper driving gear and has a valid driving license **(2mks)**

iii. Has none of the offence **(2mks)**

23. In the figure below, K L M and N are points on the circumference of a circle centre O. The points K, O, M and P are on a straight line. PQ is a tangent to the circle at N. Angle KOL = 130^0 and angle MKN = 40^0



Find the values of the following angles, stating the reasons in each case:

a. <MLN **(2mks)**

b. <OLN **(2mks)**

c. < LNP **(2mks)**

d. <MPQ **(2mks)**

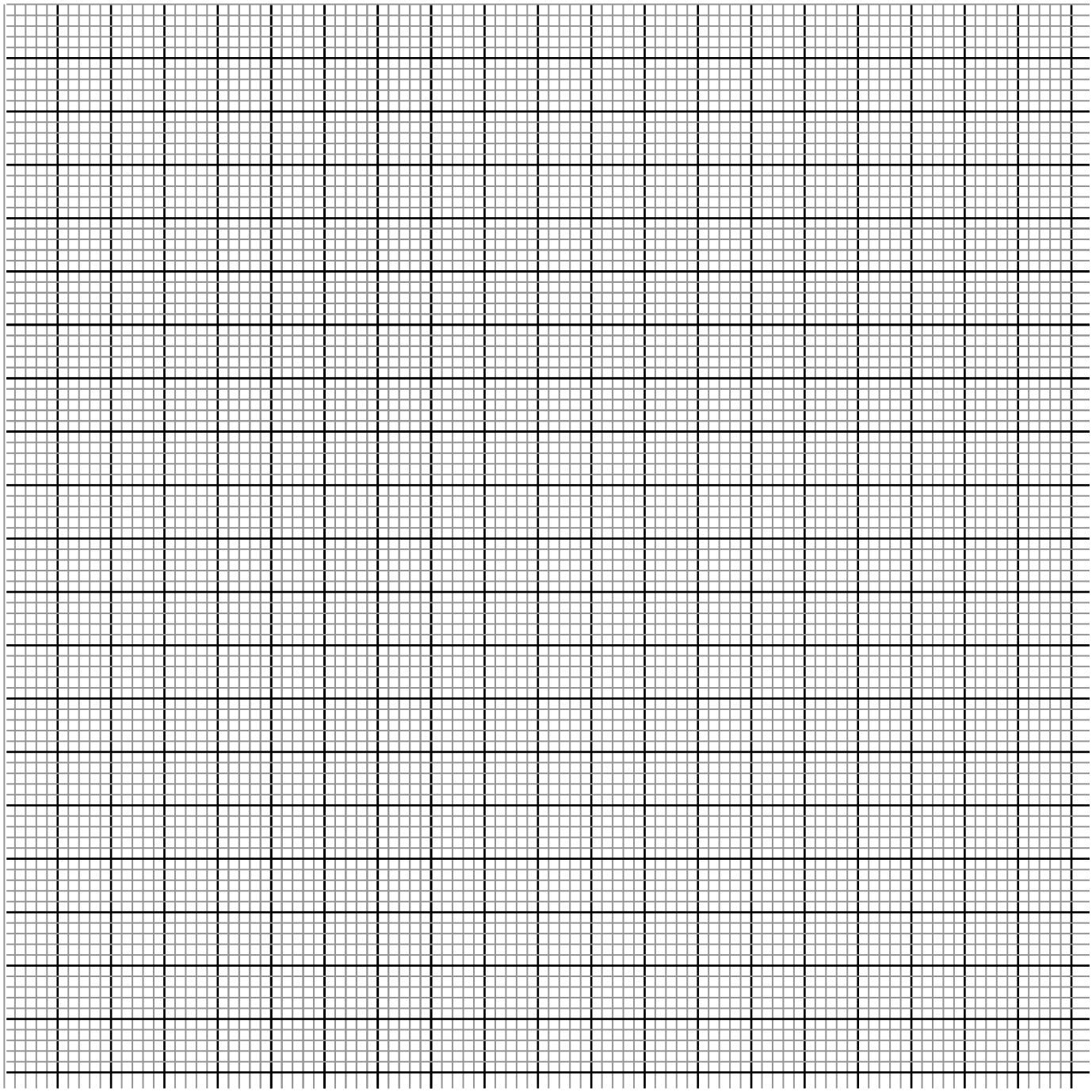
e. <KNQ **(2mks)**

24. Complete the table below for $y = \sin 2x$ and $y = \sin(2x+30)^0$ giving values to 2 d.p

(1mk)

X^0	0^0	15^0	30^0	45^0	60^0	75^0	90^0	105^0	120^0	135^0	150^0	165^0	180^0
Sin 2x	0.00				0.87				-0.87				0.00
Sin $(2x+30)^0$	0.50				0.50				-1.00				0.50

a. Draw the graph of $y = \sin 2x$ and $y = \sin(2x+30)^0$ on the same axis **(4mks)**



b. Use your graph to solve $\sin(2x+30)^0 - \sin 2x = 0$ **(1mk)**

c. Describe the transformation which maps the wave Sin 2x onto the wave Sin (2x +30) **(2mks)**

d. State the amplitude and period of $y = a \cos (bx + c)$ **(2mks)**

CEKENAS CLUSTER 2026 KCSE MOCK

SERIES 2 EXAM TEST

COMPUTER STUDIES

451/1

PAPER 1

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

- *Write your Name, Admission number and UPI number in spaces provided above.*
- *This paper consists of **TWO** sections.*
- *Answer **ALL** questions in section **A**.*
- *Answer Question 16 and any other **THREE** Questions from Section **B***
- *All answers MUST be written in the spaces provided on this question paper.*

For Examiner's Use Only

Questions	Maximum Score	Actual Score
1-15	40	
16	15	
17	15	
18	15	
19	15	
20	15	
TOTAL		

SECTION A: 40 MARKS

Answer all the questions in this Section.

1. State two reasons for the increased use of Laptop computers in modern workplaces **(2marks)**

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2. What precautions would you take in the computer laboratory incase users are complaining of overheating and suffocation. (**2marks)**

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3. Convert the decimal number 15.373_{10} to its binary number system equivalent. **(3marks)**

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4. With an aid of a diagram describe the difference between Repeat Until and While… Do (**3marks)**

5. State three circumstances which may force an individual to acquire an impact printer instead of non-impact printer. (**3marks)**

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6. Sam prepared a five-page brochure of Maseno School using Ms-publisher. He wanted to insert a school badge in each page of the publication. State two methods he need to apply to execute this task. **(2marks)**

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7. State the difference between ones complement and twos complement (**2marks)**

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8. State the function of each of the following features of an email software.

(i) Spam (**1mark)**

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(ii) Trash (**1mark)**

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9. State four benefits of cloud storage in computing. (**4marks)**

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10. Describe the functions of the following disk management operations.

(a) Defragmentation **(1mark)**

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(b) Partitioning (**1mark)**

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11. Describe four ways through which an organization can minimize threats to it data integrity. **(4marks)**

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12. Study the following three sections of code and name accordingly (**3marks)**

10101010110	**MOV AL, 10**	**<OL> Chemistry**
01010101010	**MOV DL, 25**	** Biology**
01000010101	**MUL DL**	** Physics </OL>**
10100010110		

(a) **(b)** **(c)**

13. Identify how the operating system will label the following drives in case a computer has one floppy drive, one hard disk partition into two and a DVD. (**3marks)**

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14. Five students Jane, Beryl, Baroness, Linda, and Jael scored the following marks in mathematics: 45, 76, 34, 65 and 45. The marks were recorded in cell C3 to C7. Write down the most appropriate function that can be used to give those positions so that they can be awarded in descending order. **(3marks)**

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15. Using an example explain two main parts of an URL. (**2marks)**

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SECTION B: 60 MARKS

ANSWER QUESTION NUMBER 16 ANY OTHER THREE QUESTIONS FROM THIS SECTION

16.

(i) Define the following terms as used in programming. **(3marks)**

(a) Machine dependent

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(b) Bug

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(c) Syntax

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(ii) Give two reasons to justify why most programmers prefer using compilers instead of interpreters. (**2marks)**

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(iii) Describe two limitations of machine language. **(2marks)**

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(iv) Study the pseudo code below and design its equivalent flowchart (**8marks)**

```
Start
    Count=1
    For count =1 to 5 Do
Get Value 1 and Value 2
    If Value 1 > Value2 Then
    Maximum =Value1
    Else
    Maximum =Value2
    Endif
    Display Maximum
    Count=Count+1
Stop
```

17.

(i) The five-bit number 00101 is used to represent decimal number 5, show three methods of coding for negative 5. (**3marks)**

(ii) Convert the binary number 1010111101011011100001_2 into its

(a) Octal equivalent (**2marks)**

(b) Hexadecimal (**2marks)**

(iii) Convert 10101.010101_2 to decimal (**3marks)**

(iv) Use 8-bit twos to subtract 35_{10} from 17_{10} **(3marks)**

(v) Perform the following calculation **(2marks)**

$110001_2+1111_2-11111_2$

18.

(i) Define the term desktop publishing. **(2marks)**

(ii) List three nonprinting guides used in Desktop publishing **(3marks)**

(iii) Explain the following features as used in DTP when manipulating graphical objects.

(a) Fill (**1mark)**

(b) Stroke **(1mark)**

(vi) Describe any three types of action queries. (**3marks)**

(iv) Describe the function of the following features of a query grid.

(a) Criteria **(1mark)**

(b) Show **(1mark)**

(v) Mention three functions of database management software. **(3marks)**

19.

(i) State three causes of system entropy. (**3marks)**

(ii) Describe three main ways of maintaining a computer-based system. **(3marks)**

(iii) State three advantages of using pilot changeover strategy in system development **(3marks)**

(iv) State a stage in system development life cycle where each of the following activities are carried out.

(a) Identifying shortcomings of the system **(1mark)**

(b) Prepare training manuals **(1mark)**

(c) Calculating the cost benefit analysis **(1mark)**

(v) State three outcomes that may result from using incorrect requirement specifications during system development. **(3marks)**

20.

(a) Define the following terms.

(i) Downloading **(1mark)**

(ii) Uploading **(1mark)**

(iii) Blog **(1mark)**

(b) Briefly describe how internet platform have revolutionized business operations in the 21st century. (**3marks)**

(c) Mention three emerging issues that make many people have a negative perception about internet. **(3marks)**

(d) Explain the following terms as used in data processing.

(i) Multiprocessing **(1mark)**

(ii) Batch processing **(1mark)**

(e) Explain the following types of errors.

(i) Overflow error (**1mark)**

(ii) Truncation error **(1mark)**

(f) Mention two application areas of real processing **(2mark)**

CEKENAS CLUSTER 2026 KCSE MOCK

SERIES 2 EXAM TEST

COMPUTER STUDIES

451/2

PAPER 2

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

(Practical)

INSTRUCTIONS TO CANDIDATES

1. *Write your name and index number in the spaces provided above.*
2. *Write the name and version of the software used for each question attempted in the answer sheet.*
3. *Answer all questions.*
4. *All questions carry equal marks.*
5. *Hand in all the printouts and the soft copy of your work on CD.*

QUESTION ONE

The table below shows data obtained from a hotel room booking database. Use it to answer the questions that follow:

Cust ID	Name	Phone numbe	Room No	Date of payment	Receipt No	Amount Paid
001	Mercy Kirwa	0722345671	126	23/4/2020	12345R1	7800
002	Stephen Rose	0733123456	347	02/04/2020	78653R2	4500
003	Jotham Mune	0791256435	56	05/08/2020	12364R1	5200
004	Kitanui John	0782345678	78	03/05/2020	12465R5	5678
005	Felix Kimon	0712678905	12	01/11/2020	12766R3	6790
006	Victor Orwa	0711347890	234	10/07/2020	12067R4	5489
001	Mercy Kirwa	0722345671	126	23/4/2020	12345R1	7800
005	Felix Kimon	0712678905	12	01/11/2020	12766R3	6790
004	Kitanui John	0782345678	78	03/05/2020	12465R5	5678
006	Victor Orwa	0711347890	234	10/07/2020	12067R4	5489

a) i) Create a database named **Hotel Details** to store the above data. **(4mks)**

ii) Split the data into two tables. The tables should be named: "Payment table" and "Personal details". **(12mks)**

iii) For each of the tables, chose the most appropriate key field. **(4mks)**

iv) Insert input mask for the **phone number** field such that the numbers are displayed as 0722-345-671. **(2mks)**

v) Create one to many relationship. **(4mks)**

b) i) Create a data input screen for each table for inputting the data in the table above. Ensure that the name and title of the screen are appropriate. **(4mks)**

ii) Use the screens created to enter the records in the table above into the appropriate tables.**(8mks)**

c) Create a query to extract all customers whose names end with letter "a". Save the query as "END WITH". **(4mks)**

d) Generate a tabular grouped report showing the total and average of the payments in the payment table. Grouping should be done on the customer's name **(5mks)**

e) Print the two tables and the report. **(3mks)**

QUESTION TWO

Bama School ordered Computer accessories and the following suppliers provided the following as illustrated below.

	A	B	C	D	E
1	**FName**	**ONames**	**Itemsold**	**Amount**	**Date**
2	Peter	Okada	Mouse	200	12/2/2008
3	James	Mukanda	System Unit	5000	12/3/2008
4	John	Kinyanjui	Keyboard	200	12/4/2008
5	Peter	Okada	CD Writer	2000	12/5/2008
6	James	Mukanda	commputer System	2000	12/6/2008
7	John	Kinyanjui	Mouse	200	12/7/2008
8	Freddrick	Okiring'	Mouse	200	12/8/2008
9	John	Kinyanjui	System Unit	2500	12/9/2008
10	Peter	Okada	Keyboard	200	12/10/2008
11	James	Mukanda	CD Writer	3000	12/11/2008
12	John	Kinyanjui	commputer System	5400	12/12/2008
13	Freddrick	Okiring'	Mouse	200	12/13/2008
14	Peter	Okada	System Unit	3000	12/14/2008
15	James	Mukanda	Keyboard	200	12/15/2008
16	John	Kinyanjui	CD Writer	2500	12/16/2008
17	Freddrick	Okiring'	commputer System	6000	12/17/2008

(a) Enter the data shown above into a spreadsheet and save it as **Bama**. **(16 marks)**

(b) The word commputer system has been entered incorrectly. Update the information in the spreadsheet. **(3 marks)**

(c) Format all numeric values to 2 decimal places and use comma separators. **(4 marks)**

(d) Copy the content of Bama to a new sheet and rename the sheet as **BamaSales**. Enter a label in Cell F1 as **New Amount**. In cell F2 enter a formula to calculate the new amount if the amount went up by a value in cell B18. Copy the formula to the rest of the sheet.(10 marks)

(e) Using **BamaSales** find subtotals for each supplier. **(6 marks)**

(f) Using **BamaSales'** subtotals for each supplier create a labeled bar graph on a separate worksheet. Save the chart as **Supplier**. **(8 marks)**

(g) Print Bama, BamaSales, Supplier. **(3 marks)**

CEKENAS CLUSTER 2026 KCSE MOCK

SERIES 2 EXAM TEST

HOME SCIENCE

441/1

PAPER 1

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 above.*
- *Sign and write the date of examination in the spaces above.*
- *This paper consist of three sections: A,B and C.*
- *Answer all questions in section A and B and any two questions from section C in the spaces provided.*

FOR EXAMINER'S USE ONLY.

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATE SCORE
A	1-25	40	
B	26	20	
C		40	
TOTALSCORE		100	

SECTION A (40MARKS)

Answer all questions in the spaces provided.

1. What is a dessert? Give **one** example. **(1mk)**

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2. State **two** symptoms of a two-year –old child suffering from choking. **(2mks)**

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3. Mention **two** disadvantages of using old blanket pieces for mops. **(2mks)**

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4. Give two advantages of being able to draft your own patterns for garment construction. **(2mks)**

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5. Explain why vitamin D deficiency is not common in most parts of Kenya. **(2mks)**

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6. Give two reasons why lemon juice is sometimes added to fruit salads. **(1mks)**

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7. Other than burning test, state **two** ways of identifying textile fibres. **(1mk)**

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8. List **four** preparations to make on a fabric before laying out patterns. **(2mks)**

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9. Why is soup an integral part of an invalid diet? **(1mk)**

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10. When some accidents occur in the home, a doctor must be consulted immediately. Identify **two** such accidents and explain why the doctor should be consulted. **(2mks)**

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11. Irene was machine stitching her apron then the needle broke suddenly. Give two causes for this. **(2mks)**

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12. Explain briefly the meaning of housing the family. **(1mk)**

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13. (i) Define a stitch? **(½ mks)**

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(ii)State **two** qualities of a well made stitch. **(1 mks)**

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14. List down **two** details that are included in a label for any garment commercially made. **(1mk)**

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15. Mention **three** classifications of washing machines. **(1 ½mks)**

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16. Suggest **three** advantages of making a budget. **(1 ½ mks)**

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17. Give **two** reasons for artificial feeding. **(2mks)**

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18. Differentiate between indirect and semi-direct methods of lighting. **(2mks)**

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19. Give **two** reasons why fullness is introduced in garment during construction. **(2mks)**

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20. State **two** common methods of buying goods and services. **(2mks)**

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21. Your sister has taken up modeling as a career. She has been starving herself and inducing vomiting after feeding in order to slim. Name two nutritional disorders she is suffering from? **(1mk)**

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22. State **two** possible causes of large holes in a rubbed in cake mixture. **(2mks)**

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23. Give **one** reason for each of the following practices in cleaning. **(2mks)**

i) Cleaning a glass window from outside to inside

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_____

ii) Scrubbing a wall from down up

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_____

iii) Sweeping with long low strokes

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iv) Pouring hot water down a kitchen sink drain.

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24. Give **two** reasons for fitting airbricks on the outer wall of a room. **(2mks)**

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25. State four disadvantages of the corridor plan arrangement. **(2mks)**

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SECTION B (20MARKS)

This is a compulsory question.

26. Your family is planning to visit and spend a weekend with relatives at a campsite. Giving reasons, describe how you would:

a) Describe how you will thoroughly clean her paraffin stove with wicks and leave it ready for use. **(9 mks)**

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b) Launder your fast coloured nylon raincoat in readiness for camping. **(7mks)**

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c) Clean an aluminum cooking pan **(4mks)**

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SECTION C (40 MARKS)

Answer any two questions in this section.

27.a) Using well-labeled diagrams explain how you would prepare an interfaced waistband with an extended facing before attachment. **(10mrks)**

b) A well-drained house is a comfortable house to live in. explain five points to support the above statement. **(5mks)**

c) Outline five reasons why it is advisable for women to deliver in the hospital. **(5mks)**

28. a) Define;

(i) A raising agent **(1mk)**

(ii) Give the three ways of introducing raising agents in flour mixtures. **(3mks)**

b) Explain six ways of introducing air into flour mixtures mechanically. **(6mks)**

c) With the aid of two clearly labeled diagrams, show the front and the back measurements required for making a blouse with long sleeves. **(8mks)**

d) State two characteristics of a well- made seam. **(2mks)**

29. a) Give five points on how to ensure the purchase of quality goods by consumers. **(5mks)**

b) Explain five considerations to make when furnishing a sitting room. **(5mks)**

c) State five precautions to take when caring for the sick to avoid the spread of infection. **(5mks)**

d) State five qualities of a well made round bottom patch pocket. **(5mks)**

CEKENAS CLUSTER 2026 KCSE MOCK

SERIES 2 EXAM TEST

HOME SCIENCE

441/2

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

CONFIDENTIAL

Instructions to schools.

Provide the following to each candidate.

(a)Light weight plain cotton fabric 35cm by 90cm wide.

(b)Sewing thread to match the fabric.

(c)Embroidery thread 130cm long.

(d)A4 envelop.

CEKENAS CLUSTER 2026 KCSE MOCK

SERIES 2 EXAM TEST

HOME SCIENCE

441/2

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

TIME: 2 ½ HOURS.

Practical.

Instructions to candidates.

This paper consists of 3 printed pages.

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

A pattern of a skirt is provided. You are advised to study the sketches, instructions and layout carefully before you begin the test.

Materials provided.

Pattern pieces.

A skirt Front.

B skirt Back

C Yoke

D pocket

E waist band

F Interfacing for Front and Back waistband.

2. Plain light weight cotton fabric 70cm wide by 55cm long.
3. Cotton thread to match the fabric.
4. Embroidery thread 130cm long.
5. A4 Envelop.

THE TEST

Using the materials provided, cut out and make the LEFT HALF of the skirt to show the following process.

1. Cutting out.
2. Working of a single pointed dart at the skirt back to include the working of satin stitch to fill ”O” on the pocket.
4. Preparation of gathers on the skirt front. DO NOT REMOVE GATHERING STITCHES.
5. Joining the skirt front to the yoke using overlaid seam.
6. Working the side seam using an open seam, edge stitch the raw edges.
7. Making of the waist band.
8. Managing the hem on the lower edge of the skirt by:-
   a) Hold the hem using even tacking. DO NOT REMOVE TACKING.
   b) Working hemming stitches at the front part of the skirt.
9. Presentation.

NB:

At the end of the examination, firmly sew on your work on single fabric a label bearing your name, class and admission number. Remove the needles, pins and unnecessary threads from your work. Fold your work neatly and place it in the envelop provided.

DO NOT PUT SCRAPS OF FABRIC IN THE ENVELOP AND DO NOT SEAL THE ENVELOP.

CEKENAS CLUSTER 2026 KCSE MOCK

SERIES 2 EXAM TEST

HOME SCIENCE

441/3

PAPER 3

TIME: 1¾ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

441/3

HOMESCIENCE

PAPER 3

PRACTICAL

(FOOD AND NUTRITION)

TIME: 1¼ HOURS

INSTRUCTIONS TO CANDIDATES

PLANNING SESSION: 30 MINUTES

PRACTICAL SESSION: 1¼ HOURS

1. *Read the Test carefully.*
2. *Write your **Name** and **Index number** on every sheet of paper used.*
3. *Text books and recipes may be used during the planning session as reference materials.*
4. *You will be expected to keep to your order of work during practical session.*
5. *You are only allowed to take away your reference materials at the end of the planning session.*
6. *You are not allowed to bring additional notes to the practical session.*
7. *This paper consists of two printed pages.*
8. *Candidates should check the question to ascertain that both pages are printed as indicated and no page is missing.*

THE TEST

You and your friend are on half term and are going for a girls outing fun day. 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
- Potatoes / Wheat flour / Rice
- Spinach/ kales/ cabbage
- Beef cube/ Royco
- Cooking oil
- Salt
- Onions
- Dhania
- Sugar
- Garlic
- Capsicum
- Beef/ chicken
- Pilau mix
- Fruits is season

PLANNING SESSION: 30 MINUTES

Use separate sheets of paper for each task listed below. Use carbon paper to make duplicate copies then proceed as follows.

1. Identify the dishes and write down their recipes.
2. Write down your order of work.
3. Make a list of the foodstuffs and equipment you will require.

THE END

FOR THE FOLLOWING;

- ✓ ONLINE TUITION
- ✓ REVISION NOTES
- ✓ SCHEMES OF WORK
- ✓ SETBOOKS VIDEOS
- ✓ TERMLY EXAMS
- ✓ QUICK REVISION KITS
- ✓ KCSE TOPICALS
- ✓ KCSE PREMOCKS
- ✓ TOP SCHOOLS PREMOCKS
- ✓ JOINT PREMOCKS
- ✓ KCSE MOCKS
- ✓ TOP SCHOOLS MOCKS
- ✓ JOINT MOCKS
- ✓ KCSE POSTMOCKS
- ✓ TOP SCHOOLS PREDICTIONS
- ✓ KCSE PREDICTIONS
- ✓ KCSE REVEALED SETS

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