SOARING HIGH 2026 PREMOCK

KCSE SERIES 1 EXAM

ALL SUBJECTS

First series of the Countrywide Joint Examination Trial among Select Top National Schools.

MARCH - JUNE CYCLE

SUBJECTS EXAMINED;

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

For Marking Schemes

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

MWALIMU CONSULTANCY

SOARING HIGH 2026 KCSE PREMOCK

KCSE SERIES 1 TRIAL

CHRISTIAN RELIGIOUS EDUCATION

313/1

PAPER 1

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

313/1

CHRISTIAN RELIGIOUS EDUCATION

PAPER 1

TIME: 2½ HOURS

INSTRUCTIONS TO CANDIDATES

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

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

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

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

FOR EXAMINER'S USE ONLY

Question	1	2	3	4	5	6	TOTAL SCORE
Candidates Score							

Answer Any Five Questions

1. (a) Identify **seven** activities performed by God in the second Biblical creation accounts in Genesis **2:4 – 23.** **(7mks)**

(b) Give **five** reasons why Biblical creation story has two accounts of the same event. **(5mks)**

(c) Explain **four** ways on how the use of the Bible has hindered the spread of the Good News in Kenya. **(8mks)**

2. (a) Describe the sealing of the Sinai covenant in **Exodus 24:4-8.** **(8mks)**

(b) Identify and explain the attributes of God as understood by the Israelites during the Exodus and when they were at **Mt. Sinai.** **(6mks)**

(c) State **six** values which a Christian learn from the call of Moses. **(6mks)**

3. (a) Explain **four** ways in which King Solomon fulfilled Samuel's prophecy against kingship in Israel. **(8mks)**

(b) Outline God's promises to King David through Prophet Nathan. **(6mks)**

(c) Give **six** ways in which Christians can deal with challenges they face in modern society. **(6mks)**

4. (a) Explain **four** characteristics of the day of Lord as prophesized by prophet Amos. **(8mks)**

(b) State **six** forms of punishment God would give Israel according to prop**het Amos.** **(6mks)**

(c) Show ways in which the church is carrying out its prophetic role in the society today. **(6mks)**

5. (a) Outline Jeremiah's teaching on judgement and punishment. **(8mks)**

(b) Explain symbolic acts related to judgement and punishment according to prophet Jeremiah. **(7mks)**

(c) Identify **five** reasons why Christians face the danger of being punished today. **(5mks)**

6. (a) Give the importance of marriage in Traditional African Societies. **(8mks)**

(b) Identify **seven** reasons why kinship system was highly valued in Traditional African societies. **(7mks)**

(c) State **five** factors that have weakened kinship system today. **(5mks)**

SOARING HIGH 2026 KCSE PREMOCK

KCSE SERIES 1 TRIAL

CHRISTIAN RELIGIOUS EDUCATION

313/2

PAPER 2

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

313/2

CHRISTIAN RELIGIOUS EDUCATION

PAPER 2

TIME: 2½ HOURS

INSTRUCTIONS TO CANDIDATES

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

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

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

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

FOR EXAMINER'S USE ONLY

Question	1	2	3	4	5	6	TOTAL SCORE
Candidates Score							

Answer Any Five Questions

1. (a) Show how Jesus fulfilled Isaiah's prophecy of a suffering **servant.** **(6mks)**

(b) Explain what the Benedictus reveals about the nature of **God.** **(7mks)**

(c) Explain the importance of singing in a **Christian service.** **(7mks)**

2. (a) Give the qualities of true discipleship according to Jesus' teaching. **(Luke 6:20 – 49) (7mks)**

(b) Narrate the healing of the Gerasene demonic. **(7mks)**

(c)Identify six ways through which Christians show concern to non-Christians. **(6mks)**

3. (a) Narrate the incident in which Jesus praised the widow who offered two copper coins in the temple in (Luke 21:1-4). **(5mks)**

(b) What is the significance of the Lord's Supper to Christians today? **(8mks)**

(c) How can Christians prepare themselves for the second coming of Christ? **(7mks)**

4. (a) Explain the Christian criteria for discerning the gifts of the Holy Spirit. **(5mks)**

(b) State the various gifts of the Holy Spirit. **(8mks)**

(c) What lessons do Christians learn from the activities of the early church**?** **(7mks)**

5. (a) Outline ways through which a marriage partner is chosen in traditional African communities. **(8mks)**

(b) Explain why divorce was rare in traditional African communities. **(6mks)**

(c) Identify the effects of divorce on children in Kenya today. **(6mks)**

6. (a) Describe how wealth was acquired in traditional African communities. **(5mks)**

(b) Explain how money economy has undermined the principles of Christian living. **(8mks)**

(c) Outline ways in which Christians in Kenya utilize their wealth. **(7mks)**

SOARING HIGH 2026 KCSE PREMOCK

KCSE SERIES 1 TRIAL

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

1) *This paper consists of **three** sections **A**, **B** and **C**.*
2) *Answer **ALL** the questions in section **A**, **THREE** questions from section **B** and **TWO** questions from Section **C**.*
3) *Answers to **all** the questions **must be** written in the answer booklet provided.*
4) *Candidates should answer the questions in English.*

MARKS TABLE

SECTION A	17	18	19	20	21	22	TOTAL

SECTION A: (25 Marks)

Answer ALL questions

1. **Name** the main source of historical information used in grouping the language groups in Kenya **1mk**
2. **Name two** communities that make up Western Bantu. **2mks**
3. **State two** reasons why the Omani rulers were interested in establishing their control over the Kenyan coast. **2mks**
4. **State two** ways in which Kenyan Communities interacted in the pre-colonial period. **2mks**
5. **Identify two** ways in which the Maasai benefitted from their collaboration with the British. **2mks**
6. Name two treaties that were used to partition East Africa. **2mks**
7. **Give one** peaceful method of resolving conflicts in Kenya. **1mk**
8. State two ways in which direct democracy is exercised in Kenya. **2mks**
9. **Name one** development right of children. **1mk**
10. Apart from Agikuyu give one community that practised mixed reaction to establishment of colonial rule by the British. **1mk**
11. **Give two** ways in which education system in Kenya promotes National Unity . **2mks**
12. **State two** characteristics of early political organization established in Kenya before 1932. **2mks**
13. **Give two** members of the County Executive Committee **2mks**
14. **Give the** main function of the parliament. **1mk**
15. **Identify** one type of government expenditure in Kenya. **1mk**
16. **State one** pillar of Nyayoism **1mk**
17. **What** is the main challenge of Free Day Secondary Education? **1mk**

SECTION B: (45 Marks)

Answer any THREE questions

18. **a) Three** communities in Kenya who belong to the Coastal Bantu. **3mks**

b) Six results of the migration and settlement of the Agikuyu in Kenya during the pre-colonial period. **12mks**

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

b) Six effects of missionary activities in Kenya. **12mks**

20. a) **Give five** reasons for the construction of the Uganda Railway. **5mks**

b) **Explain five** problems encountered during the construction of Uganda **railway.** **10mks**

21. a) **State** five factors that facilitated Mau Mau movement. **5mks**

b) **Explain** five roles played by the trade union movement in the struggle for independence in Kenya. **10mks**

SECTION C: (30 Marks)

Answer any TWO questions in this section

22. a) Mention five values of a good Kenyan citizen. **5mks**

b) Explain five social-economic rights of a Kenyan citizen **5mks**

23. a) **Give three** principles guiding public revenue and expenditure in Kenya. **3mks**

b) **Explain six** reasons why the Kenyan government prepares national budget annually? **12 mks**

24. a) **State** the composition of the supreme court. **3mks**

b) **Explain** the concept of natural justice. **12mks**

SOARING HIGH 2026 KCSE PREMOCK

KCSE SERIES 1 TRIAL

HISTORY AND GOVERNMENT

311/2

PAPER 2

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

INSTRUCTIONS TO CANDIDATE:

a) *Write your **name**, **AdmNo,** and **School** in the spaces provided.*
b) *Answer **ALL** questions in the booklet provided.*
c) *Answer all questions in section **A** and **three** questions from B and **any two** questions in section **C**.*
d) *All answers must be written in the answer sheet provided.*
e) *Candidates should answer the questions in English.*

FOR EXAMINERS' USE ONLY.

SECTION	QUESTION	CANDIDATES' MARKS
A	1-17	
B	18	
	19	
	20	
	21	
C	22	
	23	
	24	

SECTION A (25MARKS)

Answer ALL the questions in this section.

1. Name **two** types of written materials used by historians as a source of history and Government. **(2mks)**
2. Identify **one** artifact that is likely to be found in an archaeological site. **(1mk)**
3. Name the **main** method that was used to plant cereal crops when early agriculture began. **(1mk)**
4. Identify **two** advantages of barter as a method of exchange of goods during the Trans-Atlantic Trade. **(2mks)**
5. State **one** result of the invention of the wheel in Mesopotamia. **(1mk)**
6. State **two** advantages of horn blowing as a means of communication during the pre-colonial period**.** **(2mks)**
7. Give **two** inventions that improved textile industry in Britain in the 18th Century. **(2mks)**
8. Identify the **main** factor that led to the growth of Meroe. **(1mk)**
9. State **two** functions of the Saza chiefs among the Buganda in the 19th Century. **(2mks)**
10. State **one** social reason for the coming of Europeans to Africa in the 19th Century. **(1mk)**
11. Identify **two** European activities in Africa during the 19th Century. **(2mk)**
12. Give **one** method used by the French to administer their colonies in Africa. **(1mk)**
13. State **two** roles played by Kwame Nkurumah in the Struggle for independence in Ghana. **(2mks)**
14. Identify **one** weapon used during the cold war. **(1mk)**
15. Name **two** permanent members of the United Nations who are non-Europeans. **(2mks)**
16. Give the **main** reason why Pan African Movement was formed at the beginning of 20th Century. **(1mk)**
17. Name **one** type of elections held for the house of common in Britain. **(1mk)**

SECTION B: (45MARKS}

Answer any THREE questions from this section.

18. **a)** Give reasons why hunting and gathering was a group activity during Stone Age-period. **(5mks)**

    b) Describe **five** ways in which the development of upright posture improved the early man's way of life. **(12mks)**

19. a) State **five** factors that contributed to the development of the Trans-Atlantic Trade. **(5mks)**

b) Explain **five** negative effects of the Trans-Atlantic Trade on African Communities. **(10mks)**

20. a) Give **five** benefits of the development of railway transport in Europe during the late 19th Century. **(5mks)**

b) Explain **five** disadvantages of using air transport. **(10mks)**

21. a) Give **three** factors that enabled Europeans powers to colonize Africa in the late 19th Century**.** **(3mks)**

b) Explain **six** political impacts of Scramble and partition of Africa. **(12mks)**

SECTION C: (30MARKS)

Answer any TWO questions from this section

22. a) Give **three** economic organization of the Buganda Kingdom during the pre-colonial period. **(3mks)**

b)Describe the social organization of the Buganda Kingdom during the pre-colonial period.**(12mk)**

23. a) State **three** roles played by United States of America in ending the Second World War.**(3mks)**

b) Explain **six** reasons why the Central Powers were defeated in the First World War **(12mks)**

24. a) Identify **three** ways through which United Nations promote peace in the world. **(3mks)**

b) Explain **six** functions of the General Assembly of the United Nations. **(12mks)**

SOARING HIGH 2026 KCSE PREMOCK

KCSE SERIES 1 TRIAL

GEOGRAPHY

312/1

PAPER 1

TIME: 2¾ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

INSTRUCTIONS TO CANDIDATES

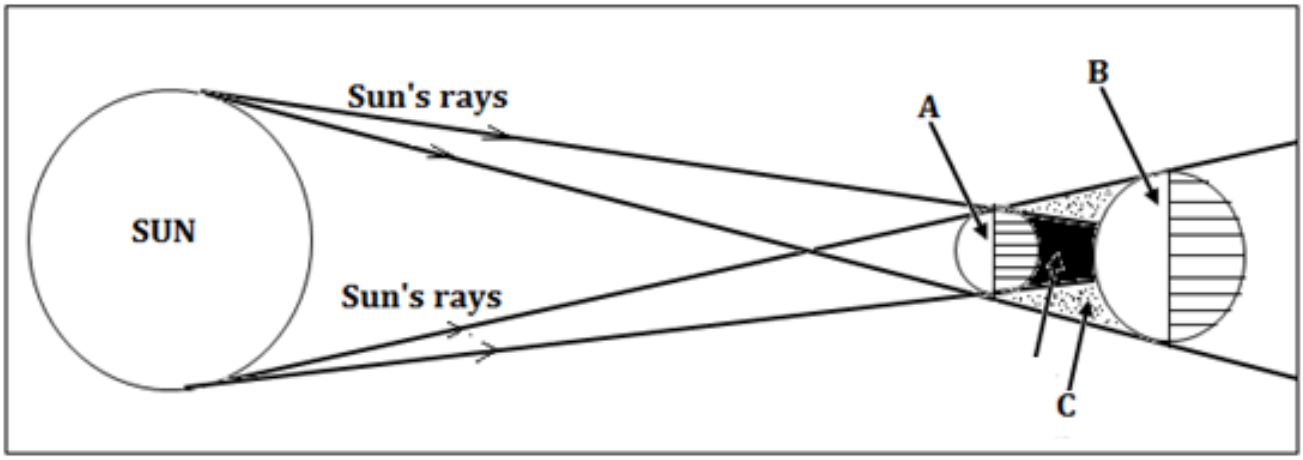
- *This paper has **two** sections: **A** and **B***
- *Answer **ALL** the questions in **section A.***
- *In section **B,** answer **questions 6** and any other **TWO** questions.*
- *Candidates must answer the questions **in English**.*

FOR EXAMINER'S USE ONLY

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1 – 5	25	
B	6	25	
		25	
		25	
TOTAL SCORE			

SECTION A

1. The diagram below shows a type of an eclipse.



(a) Name the parts marked A, B, and C. **(3 marks)**

(b) Apart from the occurrence of eclipses, state **three** other effects of the movement of the earth round the sun. **(3 marks)**

2.(a) What are metamorphic rocks? **(2 marks)**

(b) Give **two** examples of organically formed sedimentary rocks. **(2 marks)**

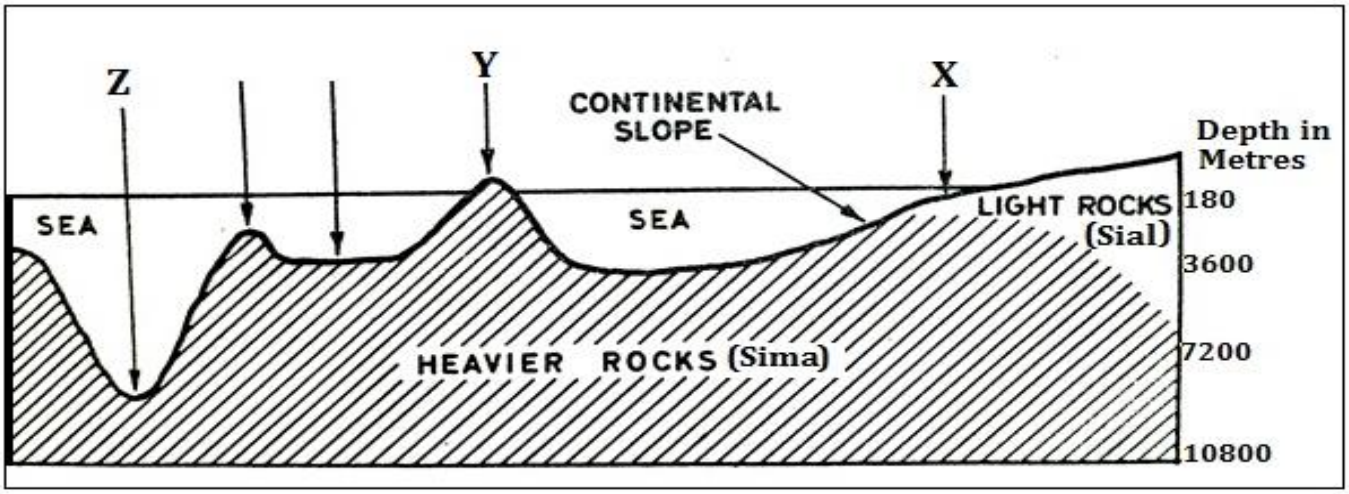
3.(a) List **three** landmasses that formed from Gondwanaland according to continental drift theory. **(3 marks)**

(b) Give **two** types of tectonic plate boundaries. **(2 marks)**

4.(a) What is an earthquake? **(2 marks)**

(b) State **three** natural causes of earthquakes. **(3 marks)**

5. The diagram below shows some features that form ocean relief.



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

(b) List **two** main forms of horizontal movements of ocean water. **(2 marks)**

SECTION B

*Answer question **6** and any other **TWO** questions in this section.*

6. Study the map of **Nyeri 1:50,000** (sheet 120/4) provided and answer the following questions.

(a)(i) Give the ***six figure*** grid reference of the forest Guard Post in Nyeri forest. **(2 marks)**

(ii) Name the adjoining sheet to the south East of the map **(1 marks)**

(iii) What is the general direction of the flow of river Chanya? **(1 mark)**

(b) (i) Using a vertical scale of ***1cm*** to represents ***50m;*** draw a cross section along Northing 64 from Easting 68 to Easting 78. On it mark and label the following.

- All weather road
- A hill.
- River Amboni (Honi). **(8 marks)**

(ii) Calculate the vertical exaggeration of the cross section**.** **(2 marks)**

(iii) Determine the intervisibility of the cross section. **(1 mark)**

(c) Describe the distribution of natural vegetation in the area covered by the map. **(6 marks)**

(d) Explain ***two*** ways relief has influenced the distribution of settlement in the area covered by the map. **(4 marks)**

7.(a)(i) Differentiate between weather and weather climate. **(2 marks)**

(ii) Give **three** types of rainfall. **(3 marks)**

(b) Explain how the following factors affect the climate of a place:

(i) Cold ocean currents. **(4 marks)**

(ii) Inter Tropical Convergence Zone. **(2 marks)**

(c) With the aid of a well labelled diagram, describe how sea breeze occurs**.** **(8 marks)**

(d) Suppose you were to carry out a field study at a weather station:

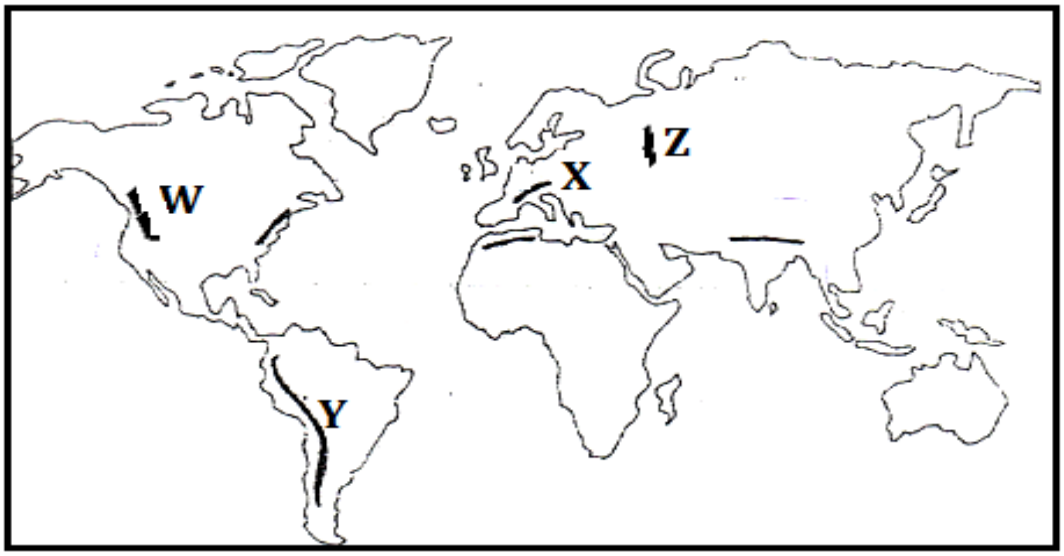
(i) Give **three** methods that they would use to collect data **(3 marks)**

(ii) State **three** follow up activities for the field study. **(3 marks)**

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

(ii) Name **three** types of folds. **(3 marks)**

(b) The world map below shows the distribution of some fold mountains. Use it to answer question (i)



(i) Identify the fold mountains marked W, X, Y and Z **(4 marks)**
(ii) With the aid of well labelled diagrams, how Fold Mountains were formed. **(10 marks)**
(c) Explain **three** negative effects of Fold Mountains **(6 marks)**

9.(a) **(i)**What is a karst scenery? **(2 marks)**
(ii) State **five** characteristics of karst landscapes. **(5 marks)**
(b) Give **four** sources of ground water. **(4 marks)**
(c) Explain how the following factors influence the occurrence of ground water:
(i) Nature of rocks. **(2 marks)**
(ii) Slope of land. **(2 marks)**
(iii) Vegetation cover. **(2 marks)**
(d) Explain **four** conditions that favour the development of an artesian well**.** **(8 marks)**

10.(a)(i) What is glaciation? **(2 marks)**
(ii) Outline **four** factors which determine the rate at which ice moves**.** **(4 marks)**
(b) Apart from a cirque, name **four** other glacial erosional features. **(4 marks)**
(c) Using well-labelled diagrams, describe how a cirque is formed. **(8 marks)**

(d) Students of Nanyuki High School carried out a field study on glaciation on Mt. Kenya
(i) Give **three** reasons why they conducted a reconnaissance. **(3 marks)**
(ii) State **two** factors they must have considered when selecting the data collection methods. **(2 marks)**
(iii) Give **two** activities they may have been involved in during the study. **(2 marks)**

SOARING HIGH 2026 KCSE PREMOCK

KCSE SERIES 1 TRIAL

GEOGRAPHY

312/2

PAPER 2

TIME: 2¾ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

INSTRUCTIONS TO CANDIDATES

- *This paper has **two** sections: **A** and **B***
- *Answer **ALL** the questions in **section A.***
- *In section **B,** answer **questions 6** and any other **TWO** questions.*
- *Candidates must answer the questions **in English**.*

FOR EXAMINER'S USE ONLY

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1 – 5	25	
B	6	25	
		25	
		25	
TOTAL SCORE			

SECTION A

INSTRUCTIONS: Answer all the questions in this section

1. (a) State three ways in which minerals occur **(3 mks)**

(b) Name any two types of underground mining **(2 mks)**

2. (a) What is a forest **(1 mk)**

(b) State any two characteristics of the tropical hardwood forests**.** **(2 mks)**

(c) State two main species of softwood trees mainly grown in Cana**da.** **(2 mks)**

3. (a) State one major characteristics of non-renewable energy sources**.** **(1mk)**

(b) Name any two non-renewable energy sources. **(2mks)**

(c) State any two effects of charcoal burning in the environment**.** **(2mks)**

4. (a) What is a trading bloc. **(2mks)**

(b) State any three factors influencing trade. **(3mks)**

5. (a) Name any two pre- historic sites that are popular with tourists in Kenya. **(2mks)**

(b) State the three agencies set up by the three governments of East Africa countries to manage the game parks and take care of the wildlife**.** **(3mks)**

SECTION B

Answer question (6) compulsory and any other two questions.

6. The table below shows the population for the three district of Trans–Nzoia County.

DISTRICT	2008	2009	2010	2011
TRANS-NZOIA WEST	150	175	180	200
TRANS-NZOIA EAST	25	30	25	28
KWANZA	10	20	30	32

Note

Population in '000'people

(a)(i)U sing the above information, construct a compound bar graph. Use a scale of 1cm Represent 25,000 people use the graph paper provided**.** **(9mks)**

(ii) Draw any two conclusions from the bar graph you have construct**ed** **(2mks)**

(bExplain three factors causing internal migration in Kenya. **(6mks)**

(c)(i) Explain three factors leading to slow population growth in some parts of East Africa. **(6mks)**

(ii) State any two importance of a high population in a country. **(2mks)**

7. (a) **(i)**Name 2 major towns found in the oil palm growing areas in Nigeria. **(2mks)**

(ii) Explain four physical features favouring oil palm growing in Nigeria. **(8mks)**

(b) Describe the steps involved in the processing of oil palm from the time is harvested. **(8mks)**

(c) (i) State four problems facing oil palm farmers in Nigeria. **(4mks)**

(ii) List three uses of oil palm. **(3mks)**

8. (a) **(i)**What are pelagic fish **(1mk)**

(ii) Give two examples of pelagic fish **(2mks)**

(b) The map below shows fishing grounds in East Africa. Use it to answer the questions that Follows



(i) Name the fishing grounds marked J, K, L and M. **(4mks)**

(ii) Explain the solutions to any <u>four</u> problems facing Inland fishing in East Africa. **(8mks)**

(c) Explain three factors why the Namibian Coast fishing ground is not well developed like other major fishing grounds in the world. **(6mks)**

(d) Compare fishing in Kenya and Japan under the following sub- headings.

(i) Market. **(2mks)**

(ii) Nature of landscape. **(2mks)**

9. (a) (i) Define land Rehabilitation **(2mks)**

(ii) State four benefits of land Rehabilitation in Kenya **(4mks)**

(b) (i) Explain four factors that led to the successful establishment of Pekerra irrigation scheme **(8mks)**

(ii) State three problems facing Pekerra irrigation s**cheme** **(3mks)**

(iii) List four main crops grown in Pekerra irrigation scheme **(4mks)**

(c) State four advantages of irrigation farming to the economy of **Kenya.** **(4mks)**

10.. (a) i) Differentiate between market gardening and floriculture. **2mks**

(ii) State four features of horticulture. **4mks**

i) State three physical factors that favour development of horticulture in Kenya. **3mks**

ii) Explain why horticulture is more developed in Netherlands than in Kenya. **8mks**

c) State and explain four contributions of horticulture to the economy of Kenya. **8mks**

SOARING HIGH 2026 KCSE PREMOCK

KCSE SERIES 1 TRIAL

AGRICULTURE

443/1

PAPER 1

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education

INSTRUCTIONS TO CANDIADATES

a) *Write your name, admission number and class*
b) *This paper contains**three** sections*
c) *Answer all question in section **A** and **B***
d) *In section **C** answer any two questions*

FOR EXAMINER'S USE ONLY

Section	Questions	Maximum score	Candidate score
A	1 -18	30	
B	19 -22	20	
C		20	
		20	
Total score		90	

SECTION A(30MARKS)

Answer ALL questions in this section

1) Name a chemical used to achieve the following during water treatment.

(a) Coagulation of solid particles **(½mark)**

……

(b) Softening of water **(½mark)**

……

(c) Killing pathogens **(½mark)**

……

2) State **two** causes of forking in carrots **(1mark)**

……

……

3) Name **four** books of account kept by a farmer **(2 mark)**

……

……

……

……

4) Give the element whose deficiency in plants is characterized by the following

(a) Interveinal chlorosis of the leaves **.....(½ mark)**

(b Blossom end rot in tomatoes **.....($\frac{1}{2}$mark)**

(c) Scorched edges of a leaf **..... (½ mark)**

5) Give **two** roles of agriculture in industrial growth. **(1 mark)**

……

……

6) Difference between olericulture and pomoculture **(1 mark)**

……

……

7 a) Give **two** disadvantages of hydram pump**s** **(1 mark)**

……

……

(b) State **two** methods of harvesting Maize **(1 mark)**

……

……

8) a) What is Agro forestry. **(1mark)**

……

……

b) State **four** ways in which Agro forestry is important. **(2marks)**

……

……

……

……

9) Give **four** farming practices that may help in achieving minimum tillage. **(2 mrks)**

……

……

……

……

10) Define the term "Economic Injury Level" of a crop. **(1 mark)**

……

……

11) State **two** conditions when opportunity costs are zero **(1 mark)**

……

……

12) State **four** factors that influence solifluction **(2 marks)**

……

……

……

……

13) Give **four** conditions that necessitate clearing of land. **(2 marks)**

……

……

……

……

14) Give **four** reasons for keeping health records **(2 marks)**

……

……

……

……

15) Name any **two** diseases that affect bean production in the field. **(1 mark)**

……

……

16) State **four** benefits of crop rotation **(2 marks)**

……

……

……

……

17) State **four** management practices in a vegetable nursery **(2 marks)**

……

……

……

……

18) Give **four** methods of land reform practiced in **Kenya** **(2mks)**

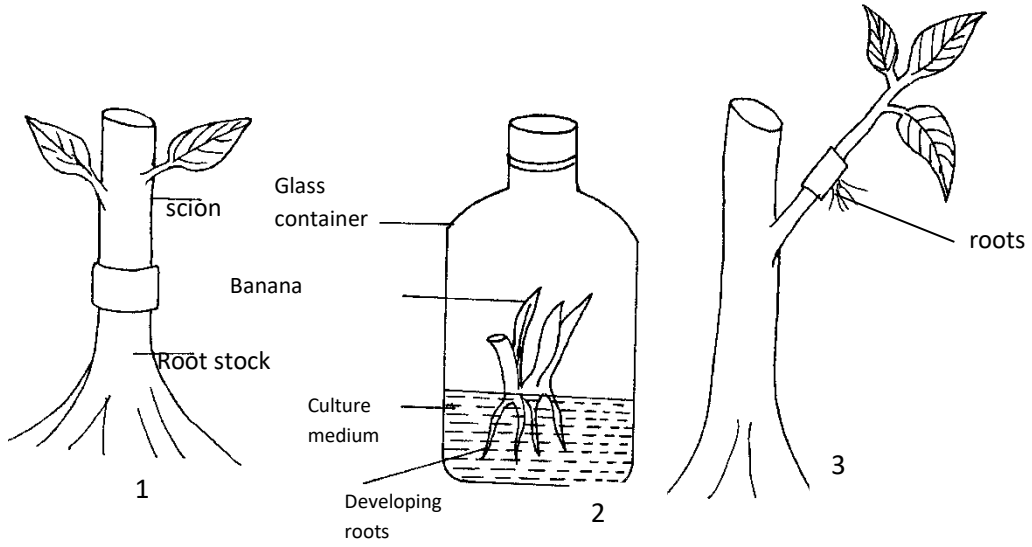
……

……

SECTION B (20 MARKS)

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

19. Study the methods of crop propagation illustrated below and answer the questions that follow



a) Identify the methods of crop propagation illustrated above.

1……. **(½ mark)**

2 …… **(½ mark)**

3…… **(.½ mark)**

b) Give **one** condition under which method (1) above is carried out**.** **(½ mark)**

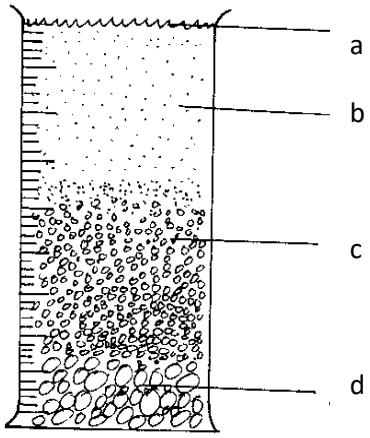
……

c) State **two** disadvantages of using stem cuttings for planting. **(2marks)**

……

……

20.(a) Form two student put some soil sample in a measuring cylinder, added some water and sodium carbonate and then covered the cylinder with the hand and shook the cylinder for about two minutes. He left the cylinder on the bench for one hour. The result was as shown below.



(i). Name the layers marked **a,b,cand d.** **(4x ½ =2 mark)**

a) …….

b) …….

c)…….

d)…….....

(ii) What was the function of sodium carbonate in this experiment? **(Imark)**

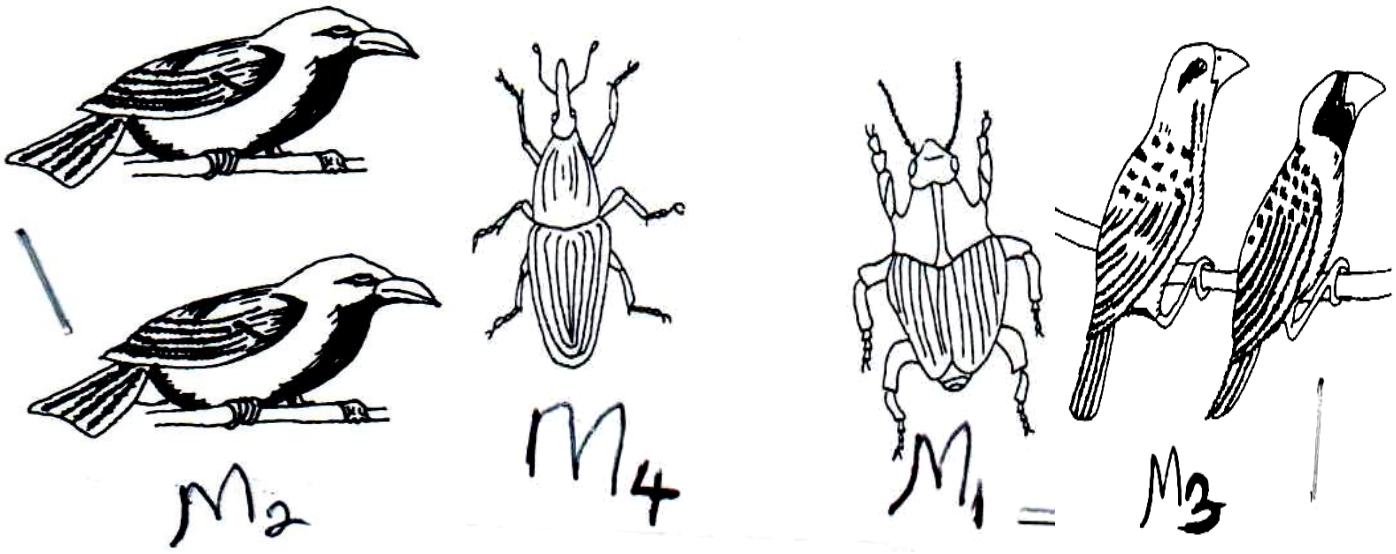
……

(iii) What was the aim of this experiment? **(lmark)**

……

……

21.The diagrams below illustrate both field and storage pests



a) Identify the pests in the illustration. **(4marks)**

M_1……

M_2…….

M_3: ……

M_4: …….

b) State **two** ways by which pest labelled M_2 causes loss in cereal crops. **(1marks)**

……

……

……

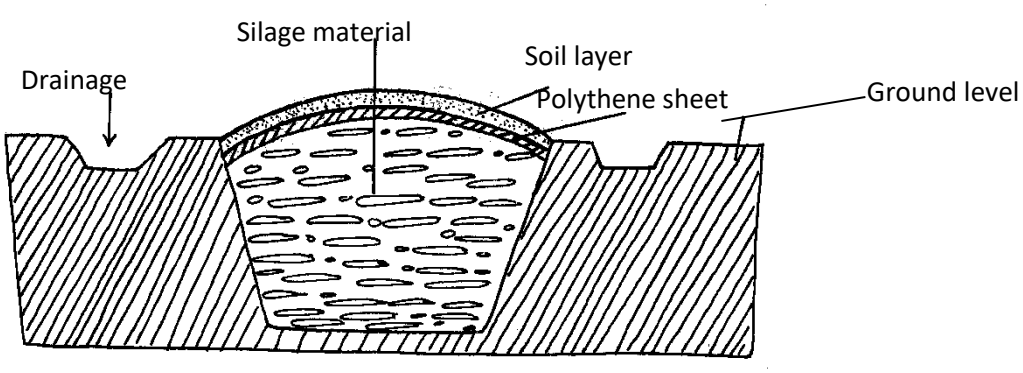
c) State two methods which are used to control the pest labeled M_2. **(2marks)**

……

……

……

22. Study the diagram on silage making shown below and answer the questions that follow.



a) Identify the silage preparation method shown above. **(1mark)**

……

b) Give **two** precautions taken when ensiling to ensure high quality silage. **(2marks)**

……

……

c) State **two** advantages of this method of forage conservation over other methods. **(2marks)**

……

……

……

SECTION C (40 marks)

Answer TWO questions from this section in the spaces provided

23.a) State and explain **five** agricultural services offered to farmers. **(10marks)**

b) Give ways in which labour efficiency can be increased in the farm **(5marks)**

c) State **five** the functions of co-operatives. **(5marks)**

24.a) Give one reason in each case why it is difficult to control the following weeds.

i) Oxalis

ii) Nut grass

iii) Couch grass **(3marks)**

b) State **two** main factors which contributes to competitive ability of weeds. **(2marks)**

c) State **five** safety measures that a farmer must consider to prevent danger to other people and environment when using herbicides. **(5marks)**

d) Describe any **five** cultural methods of controlling weeds. **(10marks)**

25. a) The table gives information on the supply of potatoes in a local market.

Price /bag in Kshs. 1000	Quantity Demanded (in bags)	Quantity supplied (in bags)
1	20	2
2	15	8
3	12	12
4	10	16
5	9	19

i) using a suitable scale and on the same axis, draw and label supply and demand curves using the data given**.** **(8marks)**

ii) From the curves drawn, what is the price per bag when 15 bags of potatoes were supplied?**(1mk)**

iii) How many bags of potatoes were supplied at Equilibrium price. **(1mark)**

b) Outline the harvesting of coffee under following subheadings

i) Stage of harvesting **(2marks)**

ii) Procedure of harvesting **(5marks)**

iii) Precautions when **harvesting** **(3marks)**

SOARING HIGH 2026 KCSE PREMOCK

KCSE SERIES 1 TRIAL

AGRICULTURE

443/2

PAPER 2

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

INSTRUCTIONS TO CANDIDATES:

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

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

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

d) *Answer all questions in section* ***A*** *and* ***B****.*

e) *Answer any two questions in section C*

f) *All the questions should be answered in the spaces provided.*

FOR EXAMINERS USE ONLY

SECTION	QUESTINS	MAX SCORE	CANDIDATES SCORE
A	1-21	30	
B	22-24	20	
C	25	20	
	26	20	
	27	20	
TOTAL		90	

SECTION A (30MARKS)

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

1. Give **four** signs of ill health in livestock. **(2mks)**

……

……

……

……

2. List **four** materials that can be used in the construction of Kenya top bar hive. **(2mks)**

……

……

……

……

3. State **four** management practices carries out on a cows during parturition. **(2mks)**

……

……

……

……

4. Name **four** methods of controlling Newcastle disease in chicken **(2mks)**

……

……

……

……

5. State the role of the following practices when rearing piglets

(i) Iron injection. **(½mks)**

……

(ii) Tooth clipping **(½mks)**

……

6. State **<u>two</u>** functions of fats and oils in animals body. **(1mk)**

……

……

7. State **<u>two</u>** functions of a queen bee in a colony **(1mk)**

……

……

8. Name **<u>four</u>** species of fresh water fish reared in Kenya. **(2mks)**

……

……

……

……

9. State **<u>two</u>** forms in which tapeworms are found in livestock **(1mk)**

……

……

10. Give the distinguishing colour for each of the following breeds of livestock

(i) Chinchilla rabbit **(½mks)**

……

(ii) Toggen burg goat **(½mks)**

……

11. State **<u>two</u>** functions of ventilation in an animal house **(2mk)**

……

……

12. Give **<u>two</u>** reasons for using litter in a poultry house. **(2mk)**

……

……

13. State **one** role of each of the following ingredients as used in preparation of artificial colostrums. **(2mks)**

(a) Castor oil

……..

(b) Cod liver oil

……..

14. State four reasons for breeding animals. **(2mks)**

……

……

……

……

15. State the functions of each of the following

(a) Shovel **(½mks)**

…….....

(b) Strip cup **(½mks)**

……..

16. Why is it necessary to have guard rails in a farrowing pen? **(1mk)**

……

……

17. Distinguish between the following practices as used in livestock production.

(a) Cropping and harvesting in fish farming **(1mk)**

……

……

(b) Crutching and ringing in sheep management **(1mk)**

……

……

18. State three instances when a bee keeper may handle bees. **(1½mks)**

……

……

……

19. State three functions of rumen in ruminant animals **(1½mks)**

……

……

……

20. Give two signs that indicate that a cow has died of anthrax. **(1mk)**

……

……

21. Why is it raddling essential in sheep management. **(1mk)**

……

……

SECTION B (20 MARKS)

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

22.

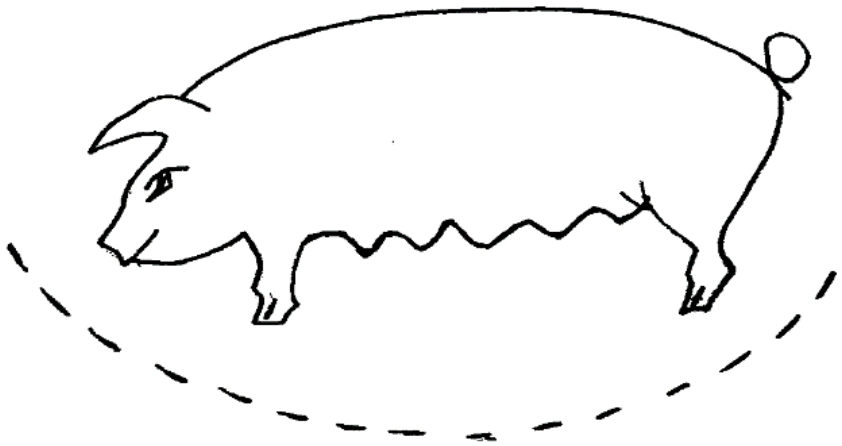
(a) If the maize meal contains 60% digestable crude protein (DCP) and Fish contains (64% DCP, calculate the amount of each feed stuff in Kilogrammes required to prepare 200kg of chickmash containing 18% DCP. **(4mks)**

(b) Name two other feed ingredients which should be added to the chickmash to make it a balanced diet. **(2mks)**

……

……

23. The figure below is a pig with some body paints. Study it and answer the questions that follow.



(i) A farmer wants to select a breeding stock. State the three physical qualities the farmer should asses in order to select a pig. **(3mks)**

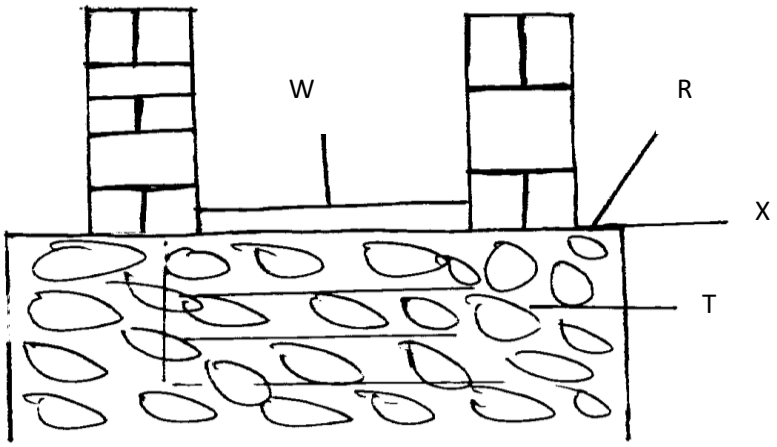
……

……

……

……

b) Study the illustration below of a hard flow foundation in a farm structure.



i) Name the parts labeled Rand T **(2mks)**

……

……

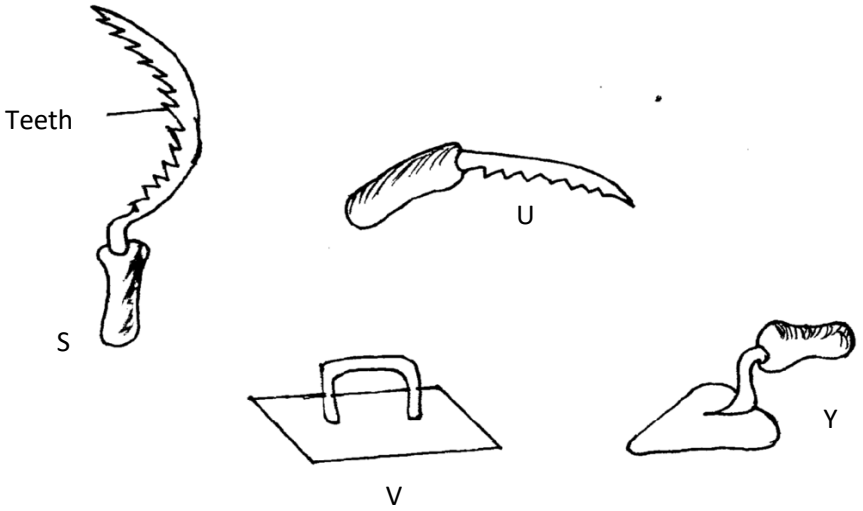
ii) State three advantages of concrete floor. **(3mks)**

……

……

……

24. The diagram below represents some farm tools



(a) State the use of each tool on the farm. **(4mks)**

S……..

U……..

V…….

Y……..

(b) Explain two maintenance practices that should be carried out on the teeth of tools in the diagram.

(2mks)

……

……

……

SECTION C

Answer any two questions in this section in the spaces provided after question 26.

25.

(a) Explain the factors considered when culling livestock. **(5mks)**

(b) Explain five factors considered when siting a cattle dip. **(5mks)**

(c) Give four conditions necessary for artificial incubation. **(4mks)**

(d) Outline the factors a farmer should consider to ensure fast and efficient cultivation by oxen. **(6mks)**

26.

(a) Describe East Coast Feaver (ECF) under the following sub headings.

(i) Animal attacked **(1mk)**

(ii) Causal organism **(1mk)**

(iii) Signs of infection **(5mks)**

(iv) Control measures **(3mks)**

(b) Explain seven factors that affect milk composition in a dairy farming. **(7mks)**

(c) State the advantages of a four stroke engine over a two stroke engine **oil.** **(3mks)**

27.

(a) Describe the feeding practices in artificial rearing of a dairy calf. **(10mks)**

(b) Describe the life cycle of a three host tick. **(10mks)**

SOARING HIGH 2026 KCSE PREMOCK

KCSE SERIES 1 TRIAL

BUSINESS STUDIES

565/1

PAPER 1

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

INSTRUCTIONS TO CANDIDATES

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

(II) *All questions should be written in the spaces provided.*

(III) *Candidates should answer the questions in English.*

FOR EXAMINERS USE ONLY

Question	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Marks														

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

TOTAL MARKS

QUESTIONS

1. Outline four elements of demographic environment that may influence the operation of a business. **(4 marks)**

……

……

……

……

2. In the spaces provided below, indicate the type of utility created by each of the following business activities

Business activity	**Type of utility**	**(4marks)**
Selling face masks to customers –		
Transporting onions-		
Storing onions in a granary-		
Making a camera-		

3. Highlight **four** importance of consumer protection**.** **(4 marks)**

……

……

……

……

4. Highlight four disciplines of business studies. **(4 mks)**

……

……

……

……

5. State four benefits of "pooling of risks" to insurance company. **(4marks)**

……

……

……

……

6. State four reasons why the concept of choice is important in economics. **(4mks)**

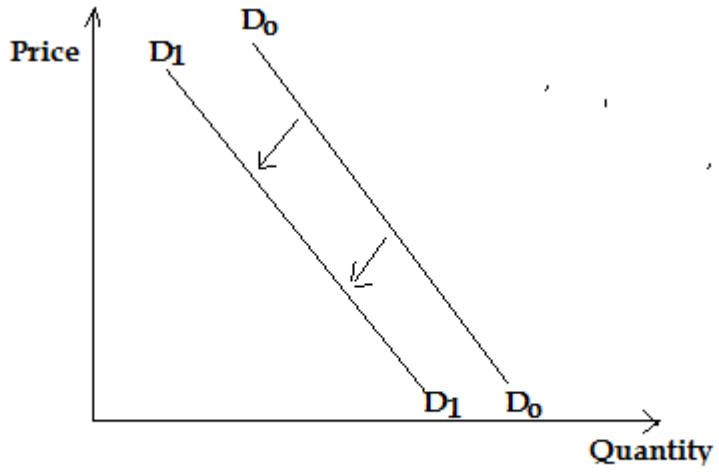
……

……

……

……

7. The diagram below shows a shift in demand curve of a commodity from D_oD_o to D_1D1.



Outline four factors that may have contributed to the above shift**.** **(4 mks)**

……

……

……

……

8. Identify the book of original entry associated with the following sources documents given below. **(4 marks)**

Source documents	**Books of original entry**
i. Invoice received	
ii. Credit note received	
iii. Receipt issued	
iv. Credit note issued	

9. State the unit of carriage for each of the following modes of transport **4mks)**

Mode of transport	**unit of carriage**
Porterage	_____
Cartage	_____
Sea	_____
Air	_____

10. Highlight four characteristics of money as a means of payment. **(4mks)**

……

……

……

……

11. State four ways of improving service delivery in parastatals and state corporation**. (4marks)**

……

……

……

……

12. State four circumstances under which a trader may require less warehousing space **(4mks)**

……

……

……

……

13. The use of electronic boards is becoming increasingly popular as a mean of product promotion.

State **four** advantages derived from their use. **(4 marks)**

……

……

……

……

14. Outline four contributions of the households to the national income of a country. **(4marks)**

……

……

……

……

15. Outline four factors that an entrepreneur will consider when determining the most viable business opportunity. **(4 mks)**

……

……

……

……

16. List **four** factors that may discourage the use of pipeline as a means of transporting petroleum products in a country. **(4 marks)**

……

……

……

……

17. Open relevant ledger accounts using the following information. **(4 mks)**

1/2/2011 started business with sh. 10,000 in cash and sh. 50,000 at bank.

2/2/2011 Bought goods on credit from LK traders worth sh.5000

4/2/2011 Withdrew sh. 2000 from bank for office use.

18. Outline four circumstances under which deffered payment may be used **(4marks)**

……

……

……

……

19. The following information relates to Mumbua traders for the year ended 31st April 2015.

	Shs.
Cash at bank	30,000
Cash in hand	40,000
Current liability	500,000
Sales	920,000
Opening stock	150,000
Closing stock	230,000

Margin 25%

Expenses 15% of sales

Determine

i) Gross profit **(1mark)**

ii) cost of sales **(1mark)**

iii) Purchase for the year **(1mark)**

iv) Net profit **(1mark)**

20. Identify four benefits of international trade to a country **(4marks)**

……

……

……

……

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

……

……

……

……

22. State four circumstances under which a business firm may use photocopying as a means of reproducing documents**.** **(4 marks)**

……

……

……

……

23. A business had the following record for the year ended 31st December 2018 **(4mks)**

	sh.
capital as at 31/12/18	64,000
net profit for the year	14,000
capital as at 1st Jan 2018	42,000
Monthly drawings	1,500

Calculate the additional investments made during the year

24. Highlight **four** circumstances under which the heads of sales department may need to communicate with the head of production department in a business**.** **(4 marks)**

……

……

……

……

……

25. Hekima private limited company would like to open up a subsidiary branch in Mombasa. Outline factors it would consider before setting up the manufacturing **unit** **(4mks)**

……

……

……

……

……

SOARING HIGH 2026 KCSE PREMOCK

KCSE SERIES 1 TRIAL

BUSINESS STUDIES

565/2

PAPER 2

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

INSTRUCTIONS TO CANDIDATES

1. *Write your name, school and index number in the spaces provided above.*
2. *Write the date of examination and sign in the spaces provided above.*
3. *This paper consists of **6** questions.*
4. *Answer **any five** questions.*

FOR EXAMINER'S USE ONLY

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1	20	
2	20	
3	20	
4	20	
5	20	
6	20	
	Total score	

QUESTIONS

1. a) Explain 5 money transfer facilities offered by a commercial bank to its customers. **(10mks)**

b) Differentiate between a public limited company and a public corporation **(10mks)**

2. a) Explain 5 ways of correcting balance of payment deficit. **(10marks)**

b) Explain five factors that are likely to lead to high birth rate in Kenya. **(10 marks)**

3. a) By the aid of a diagram, explain excess demand and excess supply **(10mks)**

b) Discuss any five circumstances under which an insured may not be compensated in the event of a loss. **(10mks)**

4. a. Explain **five** services offered by wholesalers to retailers. **(10 marks)**

b. On March 1 2017, Martha had cash in hand sh 87,000 and cash at bank sh 250,000. During the month, the following transaction took place.

March 2: Cash sales sh 60,000

3: Paid salaries sh 101,500 by cheque.

7: Received a cheque sh 76,000 from Henry, after allowing him cash discount of 5 %.

13: Bought office furniture by cheque shs 86,000.

17: Settled Maria's account for shs 34,200 in cash, having deducted shs 800 cash discount.

20: Received a cheque for shs 165,000 in respect of cash sales.

22: Paid wages shs 25,000 in cash.

24: Withdrew shs 32,000 from the bank for office use.

25: Withdrew shs 4,000 cash for personal use.

29: Received shs 17,000 cash from Alvin in settlement of his account less shs 1,000 cash Discount.

31: Deposited all the money into the bank except shs 24,000.

Prepare three column cash book duly balanced**.** **(10 marks)**

5. a) Explain **five** benefits of filing office documents to an organization. **(10 marks)**

b) A trader want to place an order to his suppliers. Explain **five** factors that he should consider before choosing the appropriate means of communication**.** **(10 marks)**

6. a) The following trial balance was prepared from the books of Muranga traders as at 31st Dec 2018

Muranga traders

Trial balance

As at 31st Dec 202

	Dr (shs)	**Cr (shs)**
Sales		900,000
Purchases	500,000	
Returns	60,000	20,000
Carriage inwards	30,000	
Carriage outwards	3,000	
Stock (jan 2018)	100 ,000	
Rent	12,000	60,000
Delivery van	300,000	
Bank	60,000	
Creditors		50,000
Debtors	100 000	
Interest	18,000	
General expenses	7,000	
Capital		178,000
	1,190,000	1,190,000

Stock on 31st Dec 2022 was at sh.130,000 required,

Prepare a trading profit and loss account for the year **ended 31st Dec 2022.** **(10marks)**

b) Explain any five limitations of advertising goods in newspapers **(10marks)**

SOARING HIGH 2026 KCSE PREMOCK

KCSE SERIES 1 TRIAL

ENGLISH

101/1

PAPER 1

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

INSTRUCTIONS TO CANDIDATES

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

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

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

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

e) *Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.*

FOR EXAMINER'S USE ONLY

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

FUNCTIONAL WRITING (20MKS)

1. You are the manager of ***Reliabe Safaris Transport Company***. Of late you've realized that the employees, mainly drivers and conductors have lost discipline and professional ethics, and this has made the company incur a lot of loss.

a) Write an internal memo to them, warning them of dire consequences if they do not change their behaviour and attitude.

Some of the areas you wish to address are:

i. Punctuality
ii. Foul language
iii. Lack of courtesy
iv. Policy bribery
v. Any other relevant area from your observation **(13 marks)**

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

b) Design a Card inviting the workers to a motivational talk with an aim of changing their behaviour and attitude. **(7 marks)**

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

2. Read the passage below and fill in each blank space with an appropriate word. (10MKS)

Poaching is increasing *(1)* _____ a menance, not just in Kenya, (2) _____ also in other parts of the continent, (3) _____ a grave danger to the survival of various animal species particularly the elephant. Whereas, there have been *(4)* _____ to raise awareness about the danger posed by the menance, not enough has been done to *(5)*_____ it out and punish offenders.

As it is, poaching is becoming a crisis, threatening species like elephants, which are hunted *(6)* _____ for their ivory, rhinos which are targeted because of their horns and other game like lions.The Kenya Wildlife Service has been doing well to combat *(7)* _____ but it appears that more is needed if the criminals*(8)* _____ to be stopped. If the killers have more sophisticated weaponry, then KWS must *(9)* _____ its game or call *(10)* _____ the military to assist.

ORAL SKILLS (30 MARKS)

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

Her lip suckle the nipples
Milk bubbles, foams and ripples
Little hands up in the air
Catch on the mother's hair
Sweet sensation rises in pressure
Tiny legs kick with pleasure
Sleep comes gently and strong
Sleep whispers softly and long.

(Emusara Ossie Enekase)

i. Identify any two pairs of rhyming words in the poem. **(1mk)**

……

……

ii. Identify one major sound pattern in the poem. **(1mk)**

……

……

iii. Give two examples of the above sound **pattern.** **(2mks)**

……

……

iv. How would you perform the last two lines of the p**oem?** **(3mks)**

……

……

……

……

b) Suppose you were asked to make a speech at a friend's graduation party. What would you do to capture the audience's attention**?** **(5 mks)**

……

……

……

……

……

c) Challenger: Two Europeans peeping through the window.

Response : Mucus

i. Classify the above genre**.** **(1mk)**

……

ii. Identify and illustrate the most outstading stylistic device used in the above genre**.** **(1mk)**

……

……

iii. Give two functions of the above genre**.** **(2mks)**

i)…….

ii)……

d) In the words below, underline the part that should be stressed.

i. Suc.cess

ii. ad.vice

iii. Chal.lenge

iv. ob.serve **(4mk)**

e) Give a word with a similar **pronounciation** **(4mks)**

i. Muscle

ii. Worn

iii. Come

iv. Which

f) The following is a conversation between a father and his daughter. Identify six shortcomings in the father's listening skills. **(6mks)**

DAUGHTER: *(Shortly after having arrived home from school)* Good afternoon, Daddy.

FATHER: *(Sitting complacently in the sofa, reading a newspaper. Looking up…….)*
Good afternoon.*(Resumes reading).*

DAUGHTER:*(Holding out her school report form)* Daddy, I'm excited. My classteacher said I was the best improved. I was…

FATHER: Oh, you were? Me, I used to be number one. I was absolutely unbeatable.

DAUGHTER:Chemistry has been a particular headache(*now looking at the report form which she thought her father would wan see),* but this time…

FATHER: *(Stretching his arms, looking preoccupied)*
Chemistry for me was particularly easy.
I never scored anything less than 90%.

DAUGHTER: Dad, I was going to tell you that this time…

FATHER: *(Absent-mindedly)* By the way, where is your mum?

DAUGHTER: Mum is in the garden pickng vegetables. But Dad,you are not listening to my story. I was telling you about Chemistry.

FATHER: You mean you have a story about Chemistry? Chemistry is not about stories. It is hard
science.

DAUGHTER: It's about my improvement…

FATHER: (*Laughing)*Me, it wasn't a matter of improvement. I was always at the top of the class.

DAUGHTER: Daddy, I give up. You are not listening.

FATHER: *(looking surprised)* Listening? I heard you: you were talking about improvement in

Chemistry, weren't you?

DAUGHTER: Anyway, Dad. Thank you for paying attention. Enjoy your newspaper.

FATHER: Oh, yes I'm reading an interesting story about politics.

……

……

……

……

……

……

……

……

……

SOARING HIGH 2026 KCSE PREMOCK

KCSE SERIES 1 TRIAL

ENGLISH

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 details in the spaces provided above.*

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

c) *Answer the questions in English*

EXAMINER'S USE ONLY

QUESTION	MARKS	CANDIDATE'S SCORE
1	20	
2	10	
3	30	
TOTAL	**60**	

1. *Read the following passage and then answer the questions that follow. (20 marks)*

The question is at least as old as Socrates: If we know what the right thing to do is, why do we not do it? It is an especially acute question when applied to global warming. The science showing that carbon dioxide emissions are already changing the planet's climate, and are likely to have severe effects (melting ice caps, sea-level rise, and species extinction), is compelling and now barely disputed. Almost 90% of Europeans say they recognize climate change as a major issue, and 75% identify fossil fuel emissions as a major cause.

And yet, as was widely discussed at a conference of environmentalists, geologists and writers in May 2006 in Ankelohe, Germany, public understanding has not translated into even the simplest of public actions. Less than 1% of Britons, for example, have switched their home electricity to renewable sources, even though it requires little more than a phone call to one's existing provider. Proportions on the continent are slightly higher, but there is clearly no rush to go green or — shudder — stop driving cars.

Why such a disconnect between information and action? Part of the problem is that environmental advocates emit mixed messages. In mid-May 2006, Britain's *Guardian* published a front-page story showing that five companies in Britain produce more CO_2 pollution in a year than all the country's motorists combined. That is a strong argument for targeting industries, but the average reader could hardly be blamed for thinking, "Why should I bother to cut down my driving?"

Similarly, not enough thought has been devoted to the best role for government. Climate change is too **vast** a problem for individuals to solve alone, and some big businesses have an **incentive** not to solve it. That leaves government to take the lead, which is tricky, because over-reliance on government can allow individuals to **fob off** their own responsibilities. What is worse, government power seems to tickle autocratic fantasies. In my experience, environmentalists spend far too much energy advocating hard-line government 'solutions' that do not stand a chance of being enacted. Sure, it might be good for the planet if governments banned the use of sports-utility vehicles or, for that matter, of all fossil fuels. Yet not only is it hard to sell outright prohibitions to voters, but the sad truth is that governments have a woeful record in even the mildest interventions. One of the most significant innovations in the last decade has been Europe's carbon-emission trading scheme: some 12 000 companies, responsible for more than half of the EU's emissions, have been assigned quotas. Companies with unused allowances can sell them; the higher the price, the greater the incentive for firms to cut their use of fossil fuels. The system seemed to work for about a year — but now it turns out that Europe's governments allocated far too many credits, which will likely hinder the program's effectiveness for years.

Perhaps the real reason that well-intentioned consumers do not change is that they do not see any benefit. Climate change may be a frightening, irreversible **calamity**, but its worst effects will not be felt next week or next year. The planet looks the same regardless of whether we use

environmentally friendly technology or we do not care how much CO_2 we emit. But sure as the sun rises and sets every day, if we do not cut down on carbon emissions, then we may not have a planet to hand over to the next generation.

(Adapted from Times, June 5, 2006)

QUESTIONS

a) According to the passage, what are the effects of global warming**?** **(4 marks)**

……

……

……

……

……

b) What, according to the passage, is the main cause of global warming**?** **(2 marks)**

……

……

……

c) How does Britain encourage people to use renewable electricity? **(3 marks)**

……

……

……

……

d) Paraphrase the following sentence: That is a strong argument for targeting industries, but the average reader could hardly be blamed for thinking, 'Why should I bother to cut down my **driving?'** **(4 marks)**

……

……

……

……

……

e) What message does the writer communicate in this **passage?** **(4 marks)**

……

……

……

……

……

f) Explain the meaning of the following words and expression as used in the passage.(4 marks)

i) foboff**……**

ii) incentive**……**

iii) calamity…**……**

iv) vast**……**

2. Read the extract below and answer the questions that follow. (25 marks)

"I'm leaving" she said. The bed creaked.

"What do you mean you are leaving? "Professor Kimani asked. He knew the answer: She didnot want to stay with him anymore. He pressed her. "What's going on, Asiya?"

"Newbom has asked me to marry him," she said.

This part he did not know. "Newborn Walomu?" he asked. Then he sat up in his half of thebed.

"Yes, Newborn Walomu. I'm leaving tomorrow."

"But why, Siya?" He did not wait for her answer. "Ah! It is his money, isn't it?"

"How dare you, Karanja!" she shouted. Then she also sat up in her half of the bed and turneda bedside lamp on and glowered at him. "For you, I've done without money for over thirty years. Repeat: thirty years! And now you have the gall to say money is the reason I want to leave?"

"Well, isn't it?" he retorted. "Look, Siya, money doesn't guarantee happiness."

"Ha!' she scoffed. Then she slid back into bed, turned to her other side, and wiggled away from him. The bed roared. "You talk of happiness. You! Have you no shame? You couldn'ttell what happiness was if it fell on your lap and cried out its name." She wiggled farther away. "Then you say money doesn't guarantee happiness. Never having had it, how would you know that it doesn't?"

"All I'm saying, Siya, is..." He slid back into bed as well. The bed protested. " trouble. Plus,more trouble from their wealth."

"Ha! If their wealth were a problem, why don't they simply give it away?"

He tried a different approach-Tuni. "In any case, is this a good time for us to part, so soonafter the death of our daughter?"

"Leave Tuni out of this!" she shouted. "She would still be alive if you had a real car," That really

hurt. "Tuni didn't die in our car, Siya,"he said limply in self-defence. Then hetried another angle-age.

"What happened to couples aging together gracefully anyway? Sixty is no age to part, surely,is it?"

"You mean I should have left earlier, before I turned sixty? Well, 'l did not' does not mean 'lshould not', nor does I did' mean 'l will'. That is why if I did not leave before, now I should. And it is why if I did stay then, now I will not."

She left the following morning. ***(Compiled By Mwalimu Consultancy 0746-222-000)***

QUESTIONS

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

.....

.....

.....

.....

.....

b) Describe the cause of Tuni's death. **(4 marks)**

.....

.....

.....

.....

.....

c) Discuss one thematic concern evident in the excerpt**.** **(2 marks)**

.....

.....

.....

d) Who is Newborn Walomu? **(2 marks)**

.....

.....

.....

e) Identify and illustrate three styles used in the excerpt. **(6 marks)**

……

……

……

……

……

……

……

……

f) How has Asiya been portrayed in this excerpt? **(4 marks)**

……

……

……

……

……

……

g) "Money doesn't guarantee happiness." Why is this statement ironical coming fromKaranja? **(2 marks)**

……

……

……

h) Provide a question tag. **(1 mark)**

He knew the answer**,…..... ?**

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

No coffin, no grave **by Jared Angira**

He was buried without a coffin
Without a grave
The scavengers performed the post-mortem
In the open mortuary
Without sterilized knives
In front of the night club

Stuttering rifles put up
The gun salute of the day
That was a state burial anyway
The car knelt
The red plate wept, wrapped itself in blood its
master's

The diary revealed to the sea
The rain anchored there at last
Isn't our flag red, black and white?
So he wrapped himself well

Who could signal yellow
When we had to leave politics to the experts
And brood on books
Brood on hunger
And schoolgirls
Grumble under the black pot
Sleep under torn mosquito net
And let lice lick our intestines
The lord of the bar, money speaks madam
Woman magnet, money speaks madam
We only cover the stinking darkness of the cave of our mouths
And ask our father who is in hell to judge him
The quick and the good.

Well, his diary, submarine of the Third World
War
Showed he wished
To be buried in a gold-laden coffin
Like a VIP
Under the jacaranda tree beside his palace
A shelter for his grave

And much beer for the funeral party

Anyway one noisy pupil suggested we bring
Tractors and plough the land.

*(From **Poems from East Africa,** D. Cook andD. Rubadiri (Eds,): East African Educational Publishers)*

QUESTIONS

a) Briefly explain what this poem is about. **(3 marks)**

……

……

……

……

b) Explain the use of onomatopoeia in the poem. **(2 marks)**

……

……

……

c) Identify and explain the tone of the poem. **(4 marks)**

……

……

……

……

……

d) Comment on the central theme of the poem. **(3 marks)**

……

……

……

……

e) Explain the meaning of the following lines:

a) who could signal yellow **(2 marks)**

……

……

ii) submarine of the Third World War

……

……

f) How else can people bring change in society without assassinating politicians**?** **(2mks)**

……

……

……

g) Explain the meaning of the following words as used in the poem

i) Anchored **(1mk)**

……

ii) Brood **(1mk)**

……

4. GRAMMAR (15 MARKS)

a) Complete the following sentences by choosing the appropriate expressions tofill the gaps. (3marks)

i) Although Nduati is a great friend of mine, I **……..**him on a few important issues. *(differ to, differ with)*

ii) As good citizens, we must all pay our taxes **……..**the policy. *(in accordance to, in accordance with)*

iii) She chose her career **……..***(independent of, independent to)*her father's influence.

b) Rewrite the sentences below according to the instructions given after each. ***(3marks)***

i) My father would not allow us to attend night parties under any circumstances.

(Begin: Under no circumstances ……..)

……

……

ii) Strangers should not be allowed into the compound without the security officer's permission.

(Begin: On no account……..……..)

……

……

Iii) The plane had just taken off when one of the passengers began to scream.

(Begin: Scarcely ……..…..)

……

……

c) ***Rewrite the following sentences avoiding repetition.*** ***(2 marks)***

i) Always be frank and open with your friends. When you are frank and open to your friends, you willwin your friends trust and confidence.

……

……

ii) Help yourself to some oranges. These oranges are sweet but those oranges are sweeter.

……

……

d) Combine each of the following pairs of sentences by making one of them a relative clause.

(2 marks)

i) Kasoha joined our school this term. She is very good at grammar.

……

……

ii) The generator had been on the whole night. It broke down in the morning.

……

……

e) Add an appropriate question tag to each of the following statements. ***(3marks)***

i) They aren't serious.

……

……

ii) He bought a new house last month.

……

……

iii) Let us go.

……

……

f) Fill in the gapsusing the present perfect form of the verbs in brackets. ***(2 marks)***

i) I …… (visit) many places.

ii) My wife …….. (join) me in most of these trips.

SOARING HIGH 2026 KCSE PREMOCK

KCSE SERIES 1 TRIAL

ENGLISH

101/3

PAPER 3

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

INSTRUCTIONS TO CANDIDATES

- ***a)*** *Write your name, index number and the name of your school in the spaces provided*
- ***b)*** *Answer any 3 questions*
- ***c)*** *Question one and two are compulsory*
- ***d)*** *Choose one question in question 3*
- ***e)*** *Each essay must not exceed 450 words*

FOR EXAMINER'S USE ONLY

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1	20	
2	20	
3	20	
TOTAL SCORE	60	

IMAGINATIVE COMPOSITION

1 (a) write a composition to illustrate the proverb**:** **(20 MKS)**

"As you make your bed, so you must lie on it."

OR

(b) "Education is the surest way to achieve the much needed national integration in Kenya today. "Write a composition supporting or opposing this statement.

2. THE COMPULSORY SET TEXT: (20MKS)

The novel; The Samaritan by John Lara.

"The writer's society, just like any other world society, is riddled with betrayal." Using the play, ***The Samaritan,*** **by John Lara** for references, write a composition justifying this statement.

3. OPTIONAL SET TEXT **(20 marks)**

Answer any of the following questions

(a) A Silent Song's and other stories.

Alienation class differences and inequalities is still a colonial problem that goes through most African Nations. Write an essay in support of the statement with illustrations from '**The Neighbourhood Watch**' by **Reni'y Ngamije**.

(b) The novel: Artist of the Floating World.

The teachers in "**An Artist of the Floating World**" have a passionate, paradoxicalrelationship to their most gifted students. Discuss.

(c) The play: Parliament of Owls by Adipon Sidang.

'Our Greatest enemies are those close to us.' Support this statement from **Adipo Sidang's play "Parliament of Owls"**

SOARING HIGH 2026 KCSE PREMOCK

KCSE SERIES 1 TRIAL

KISWAHILI

102/1

KARATASI YA 1

MUDA: SAA 1¾

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Hati ya Kuhitimu Cheti cha Sekondari (KCSE)

MAAGIZO

1. *Andika insha **mbili**. Insha ya kwanza ni ya **lazima.***
2. *Kisha chagua insha moja nyingine kutoka kwa hizo tatu zilizobakia.*
3. *Kila insha isipungue **maneno 400***
4. *Kila insha ina **alama 20***
5. *Kila insha **lazima** iandikwe kwa lugha ya Kiswahili.*

KWA MATUMIZI YA MTAHINI PEKEE

SWALI	**1**	**2**	**3**	**4**	**JUMLA**

MASWALI

LAZIMA

1. Wewe kama rais umekerwa na kukithiri kwa ufisadi katika wizara mbalimbali. Andikia arifa mawaziri wako ukiwaeleza madhara ya ufisadi na hatua utakazochukua ikiwa hawatakomesha ufisadi katika wizara zao. **(alama 20)**

2. Dhuluma katika asasi ya ndoa haiathiri tu wanajamii husika nyumbani bali elimu ya watoto wao pia. Fafanua. **(alama 20)**

3. Andika kisa kinachoafiki methali:…. Usishindwe kupika ukasingizia jiko la moshi. **(alama 20)**

4. Andika insha itakayokamilika kwa maneno yafuatayo:

……. Ni jicho gani lisilolengwalengwa na chozi la mshangao na huzuni kwa kushuhudia unyama wa aina hii. Wanadamu wamesahau kuwa mtu ni utu**.** **(alama 20)**

SOARING HIGH 2026 KCSE PREMOCK

KCSE SERIES 1 TRIAL

KISWAHILI

102/2

KARATASI YA 2

MUDA: SAA 2½

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

MAAGIZO

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

(b) Tia sahihi yako kisha uandike tarehe ya mtihani katika nafasi ulizoachiwa hapo juu.

(c) Jibu maswali yote.

(d) *Majibu yote yaandikwe katika nafasi ulizoachiwa katika kijitabu hiki cha maswali.*

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

KWA MATUMIZI YA MTAHINI PEKEE

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

1. UFAHAMU: (ALAMA 15)

Soma kifungu kifuatacho kisha ujibu maswali yanayofuatia.

Mawasiliano ni upashanaji habari kwa namna tofautitofauti. Njia za mawasiliano zimebadilika sana katika historia ya binadamu. Kwa mfano, zamani ingechukua siku nyingi kupitisha ujumbe baina ya watu wanaoishi sehemu mbalimbali. Siku hizi ujumbe hupitishwa katika sekunde chache katika masafa marefu.

Ugunduzi wa simu uliofanywa na Alexander Graham Bell mwaka wa 1876 ulifungua ukurasa mpia katika mawasiliano. Nchini Kenya, miaka ya sabini na themanini, ilikuwa vigumu kupata huduma za simu. Mtu alihitajika kusafiri masafa marefu ili kupata huduma hizo hasa kwa wale walioishi mashambani. Aidha kutokana na ukosefu wa huduma hizo katika sehemu nyingi, mtu alihitaji **kupiga foleni** ili ahudumiwe ama ajihudumie.

Baadaye, simu tamba zilivumbuliwa na mawasiliano yakarahisishwa. Mwanzoni, simu tamba zilikuwa vidude vikubwa ambavyo havikutoshea mifukoni. Hata hivyo, usumbufu huo ulitafutiwa suluhu. Siku hizi simu tamba ni ndogo na hivyo huwa rahisi kuzibeba. Aidha, kampuni za kutoa huduma za mawasiliano na kufanya gharama ya kupiga simu kuenda chini.

Barua pia ni njia ya mawasiliano na imetumika kwa muda mrefu. Baadhi ya nchi kuliko tumiwa barua katika enzi za zamani ni Misri na Uyunani. **Matarishi** walitumwa kupeleka barua. Barua zilichukua muda mrefu kufikia aliyeandikiwa. Aidha kutokana na kwamba si watu wote waliojua kusoma na kuandika, wachache waliokuwa na maarifa hayo waliwandikia na kuwasomea. Katika enzi hizi matumizi ya barua yamepunguzwa kwa kiwango kikubwa na tarakilishi na simu tamba. Kwa kutumia tarakilishi unaweza kutuma barua pepe. Aidha, kwa kutumia simu tamba unaweza kutuma arafa.

Waajiri wengi hupendekeza wanaoomba kazi watume maombi yao kwa kutumia baruapepe. Njia hii huondoa uwezekano wa wanaoomba kazi kutumia ufisadi ili wapate kazi. Aidha, njia hii husaidia kutunza mazingira kwani karatasi hazitumiwi. Katika elimu tarakilishi zinatumiwa shuleni kufundishia hivyo kurahisisha mawasiliano kati ya mwalimu na mwanafunzi. Aidha, kupitia tarakilishi iliyotandawizwa ama kuunganishwa kwa mtandao, watu huweza kujuliana hali na kupashania habari mbalimbali kutoka pembe zote za dunia. Changamoto katika hatua hii ni ukosefu wa nguvu za umeme hasa mashambani. Aidha,gharama ya kununua tarakilishi ni kali mno hasa kwa mataifa yanayoendelea ikizingatiwa kuwa yana changamoto za kimsingi kama vile kutojua kusoma na kuandika, magonjwa na umaskini.

Vilevile, redio ni chombo muhimu ambacho huchangia sana katika mawasiliano. Kwa sasa, hiki ndicho chombo cha pekee kinachomilikiwa na karibu kila familia. Hali hii inachangiwa na ukweli kwamba kunazo redio ndogo ambazo hutumia betri. Chombo hiki huwapitishia matangazo na habari kuhusu yanayotendeka kutoka pande zote za ulimwengu. Redio hufahamisha, huburudisha na kuelimisha. Wizara ya Elimu imekuwa ikitumia redio kufundishia masomo mbalimbali hasa katika shule za msingi.

Nani asiyejua kuhusu runinga? Chombo hiki pia hutoa mchango mkubwa katika mawasiliano. Runinga hushirikisha hisi za kusikiliza na kuona, kwa hivyo mawasiliano yake hufanikiwa sana. Hata hivyo, ni asilimia ndogo ya watu ambao wanaweza kuimiliki kutokana na gharama yake na pia si wengi wanazo nguvu za umeme majumbani mwao.

Mwalimu ni muhimu sana katika maendeleo ya jamii oyote. Ni dhahiri shahiri mwasiliano ni sehemu muhimu katika kuimarika kwa uchumi. Vile vile huwezesha watu kutangamana na kubadilishana mawazo. Binadamu si kama visiwa vinavyosimama peke yavyo. Binadamu huhitaji kutangamana na binadamu wengine katika maisha na kwa hivyo mawasiliano ni muhimu.

a) Eleza kini cha taarifa hii. **(al. 1)**

……

……

b) Toa sababu mbili za waajiri kuhimizi matumizi ya barua pepe. **(al. 2)**

……

……

……

c) Kwa nini redio ndicho chombo kinachotegemewa zaidi katika mawasiliano. Eleza sababu nne. **(al. 4)**

……

……

……

……

……

d) Kwa mujibu wa kifungu hiki eleza udhaifu wa tarakilishi. **(al. 3)**

……

……

……

……

e) Eleza faida mbili za tarakilishi. **(al. 2)**

……

……

……

f) Eleza maana ya maneno yafuatayo kama yalivyotumiwa katika taarifa. **(al. 2)**

i) Kupiga foleni

……

……

ii) Matarishi

……

……

2. UFUPISHO: (ALAMA 15)

Soma makala yafuatayo kasha ujibu maswali yafuatayo

Lugha ndio msingi wa maandishi yote. Bila lugha hakuna maandishi. Kila jambo tufanyalo kuhusiana na lugha husitawisha ufahamu wetu wa mambo tusomayo. Mazoezi katika kuandika husitawisha ufahamu katika kusoma kwa sababu katika kuandika ni lazima kuyatumia maneno vizuri na kufahamu ugumu wa usemi. Twajifunza matumizi ya lugha katika kuzungumza na kuwasikiliza wengine wakizungumza. Lugha tusomayo ni anina ya lugha ya masungumzo.

Kuna ujuzi mwingi katika kuzungumza kama vila michezo ya kuigiza, hotuba, majadiliano na mazungumzo katika darasa. Haya yote husaidia katika uhodari wa matumizi ya lugha. Ujuzi wa kila siku utasaidia katika maendeleo ya kusoma na usitawi wa msamiati. Ikiwa mwanafunzi amemwona ndovu hasa, atakuwa amejua maana ya neno ndovu vizuri zaidi kuliko mwanafunzi ambaye hajawahi kumwona ndovu bali ameelezwa tu vile ilivyo. Vilevile ujuzi wa kujionea sinema au michoro husaidia sana katika yaliyoandikwa. Ikiwa mwanafunzi ana huzuni au ana furaha, akiwa mgonjwa au amechoka au amefiwa, haya yote ni ujuzi. Wakati juao mwanafunzi asomapo juu ya mtu ambae amepatikana na mambo kama huyo hana budi kufahamu zaidi.

Karibu elimu yote ulimwenguni huwa imeandikwa vitabuni. Hata hivyo, lugha zote hazina usitawi sawa kuhusu fasihi. Kwa bahati mbaya lugha nyingine hazijastawi sana na hazina vitabu vingi. Fauka ya hayo , karibu mambo yote yanayohusiana na elimu huweza kupatikana katika vitabu kwenye lugha nyingine.

Inambidi mwanafunzi asome vitabu au majarida juu ya sayansi au siasa au historia, lakini haimbidi kusoma tu juu ya taaluma fulani anayojifunza . Inafaa asome juu ya michezo, mambo ya mashairi na juu ya mahali mbalimbali ili kupata ujuzi wa mambo mengi.

a) Fupisha aya za kwanza mbili kwa kutumia maneno 65 (alama 10, 1 ya utiririko)

Matayarisho

……

……

……

……

……

……

……

……

……

……

Jibu

……

……

……

……

……

……

……

……

……

……

b) Kwa kuzingatia habari zote muhimu na bila kupoteza maana asilia, fupisha aya ya mwisho (Maneno 30) (alama 5 utiririko)

Matayarisho

……

……

……

……

……

Jibu

……

……

……

……

……

3. MATUMIZI YA LUGHA (ALAMA 40)

a) Tunga sentensi kuonyesha matumizi ya vielezi viwili vya silabi moja. **(al. 2)**

……

……

b i) Eleza maana ya sauti za likwidi. **(al. 1)**

……

……

ii) Toa mifano ya sauti za likwidi. **(al. 1)**

……

……

c) Ainisha mofimu: Lililoliwa **(al. 3)**

……

……

……

……

……

d) Eleza huku ukitoa mifano matumizi mawili ya kiambishi ‘ji’. **(al. 2)**

……

……

……

e) Huku ukionyesha upatanisho wa kisarufi katika sentensi, weka nomino zifuatazo katika ngeli mwafaka. **(al. 2)**

i)Uwele

……

……

ii) Vita

……

……

f) Tumia 'O' rejeshi tamati kuunganisha sentensi zifuatazo. **(al. 1)**

Tawi limekauka

Tawi limeanguka

……

……

g) Tambua vivumishi na uonyeshe ni vya aina gani. **(al. 3)**

Wanafunzi wawa hawa waliochelewa watafanya kazi ya sulubu kama adhabu.

……

……

……

……

……

h) Kanusha: Msichana ambaye amefika ametuzwa. **(al. 1)**

……

i) Onyesha aina za virai katika sentensi hii: **(al. 2)**

Wale wazazi wetu watawasili kesho saa tatu.

……

……

……

j) Unda nomino kutokana na kitenzi ‘Haribu’ **(al. 1)**

……

……

k) Tambua aina za vitenzi katika sentensi. **(al. 2)**

Hawa sio wachezaji bali wamekuwa wakichezea timu hii.

……

……

……

l) Tunga sentensi kuonyesha matumizi ya viunganishi vya kulinganua. **(al. 1)**

……

……

m) Eleza matumizi mawili ya ‘ka’ . Toa mifano katika sentensi. **(al. 2)**

……

……

……

……

n) Andika visawe ya maneno yafuatayo **(al. 2)**

i)Daawa……

ii) Ainisha……

o) Onyesha kwa kauli ulizopewa **(al. 1)**

i) Ja (tendewa)

……

……

p) Andika kinyume: Tajiri aliyesifiwa amelaaniwa. **(al. 1)**

……

……

q) Chananua sentensi hii kwa kutumia vishale. **(al. 4)**

Yule mgeni aliyefika jana ameondoka leo.

……

……

……

……

……

……

r) Ainisha vishazi katika sentensi ifuatayo **(al. 2)**

Oyula atapendwa na wengi ikiwa atashinda leo.

……

……

……

s) Eleza majukuma mawili ya chagizo huku ukitoa mifano. **(al. 2)**

……

……

……

t) Akifisha. **(al. 3)**

sikiliza bwana mdogo siku hizi tunaishi katika jamii ambayo imebadilika hayo mawazo yako ya zama kongwe hayatakufikisha popote kumbuka

……

……

……

……

u) Andika ukubwa wa sentensi katika wingi. Nyundo imo ndani ya kibweta. **(al. 1)**

……

……

4. ISIMU JAMII (ALAMA 10)

a) Eleza matatizo matano yanayowakabili wazungumzaji wa Kiswahili. **(al. 10)**

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

SOARING HIGH 2026 KCSE PREMOCK

KCSE SERIES 1 TRIAL

KISWAHILI

102/3

KARATASI YA 3

MUDA: SAA 2½

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

MAAGIZO

- ***a)*** *Jibu maswali manne pekee*
- ***b)*** *Swali la kwanza ni la lazima*
- ***c)*** *Maswali hayo mengine yachaguliwe kutoka sehemu nne zilizobaki yaani : Hadithi fupi, tamthilia na fasihi simulizi.*
- ***d)*** *Usijibu maswali mawili kutoka sehemu moja*

SEHEMU A : RIWAYA – LAZIMA

1. Anwani ya riwaya ya **Nguu za Jadi** ni ya kijazanda .Thibitisha kwa kurejelea riwaya nzima.

(alama 20)

SEHEMU B TAMTHILIA YA BEMBEA YA MAISHA

2.

"Basi usijipandishe presha bure mama! "

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

(b) Ainisha mbinu mbili za kimtindo zilizotumika katika dondoo hili **(alama2)**

(c) Eleza sifa nne za msemewa **(alama6)**

(d) Jadili maudhui ya utamaduni kama yanavyojitokeza katika tamthilia mzima **(alama10)**

3. Eleza namna **maudhui ya ndoa** yameshughulikiwa katika tamthilia nzima

alama 20

SEHEMU C: MAPAMBAZUKO YA MACHWEO NA HADITHI ZINGINE

4. Fafanua jinsi mwanamke alivyosawiriwa katika hadithi ya Nipe nafasi **alama 20**

5. "Thank you. U mteja wa pekee, unajua kuthamini huduma nzuri unapopewa."

i) Fafanua muktadha wa dondoo hili. **(al.4)**

ii) Taja na ueleze mbinu mbili za kimtindo katika dondoo hili. **(al.4)**

iii) Kwa kurejelea hadithi ya "Kila Mchezea Wembe," Fafanua changamoto zinazowakumba watumiaji wa vileo kupita kiasi. **(al. 12)**

SEHEMU D : USHAIRI A

6. MWANA

1. Kwani mamangu u ng'ombe, au u punda wa dobi ?
Nakuuliza usambe, nayavunja madhehebi
Nalia chozi kikombe, uchungu wanisibabi
Hebu nambie
Kweli jaza ya kiumbe, ni madhila na mapigo ?

MAMA

2. Nang'ona mwana nang'ona, sitafute angamiyo
Sinipe kuja sonona, kwa uchungu na kiliyo
Babayo mkali sana, kubwa pigo la babayo
Kwani kelele kunena, huyataki maishayo ?
Hilo nakwambia.

MWANA

3. Sitasakamwa. Kauli, nikaumiza umiyo
Nikabeba idhilali, nikautweza na moyo
Siuvuwati ukweli, hazidisha gugumiyo
Baba hafanyi halali, huachi vumiliyo
Hebu nambie.
Kweli jaza ya kiumbe, ni madhila na mapigo ?

Nambie ipi sababu, ya pweke kwenda kondeni
Nini yako matulubu, kulima hadi jioni ?
Na jembe ukudhurubu, ukilitua guguni
Yu wapi wako muhibu, Baba kwani simuoni?
Hebu nambie.
Kweli jaza ya kiumbe, ni madhila na mapigo ?

Baba kwani simuoni, kuelekea shambani?
Kutwa akaa nyumbani, na gumzo mitaani.
Hajali hakudhamini, wala haoni huzuni.
Mwisho wa haya ni nini ? ewew mama wa imani ?
Hebu nambie.
Kweli jaza ya kiumbe, ni madhila na mapigo ?

Na kule kondeni kwako, ukate kuni kwa shoka
Ufunge mzigo wako, utosini kujitwika
Kwa haraka uje zako, chakula upate pika
Ukichelewa vituko, baba anakutandika
Hebu nambie.
Kweli jaza ya kiumbe, ni madhila na mapigo ?

Chakula kilicho ndani, ni jasho lako hakika
Kiishapo u mbioni, wapiti kupokapoka
Urudi nje mekoni, uanze kushughulika
Ukikosa kisirani, moto nyumbani wawaka
Hebu nambie.
Kweli jaza ya kiumbe, ni madhila na mapigo ?

MAMA
Wanitonesha kidonda, cha miaka na miaka
Usidhani nayapenda, madhila pia mashaka
Nakerwa na yake inda, na sasa nimeshachoka
Ninaanza kijipanga, kwa mapambano hakika
Hilo nakwambia

MASWALI

a) Mtunzi wa shairi hili alikuwa na dhaimira gani katika kutunga shairi hili (al. 2)

b) Shairi hili ni la aina gani. Toa ithibati (al. 2)

c) Yataje mambo yoyote matano anayolalamikia mwana (al. 5)

d) Eleza kanuni zilizotumika kasarifu ubeti wa tatu (al.5)

e) Andika ubeti wa saba kwa lugha tutumbi (al. 4)

f) Eleza maana haya yaliyotumika katika shairi hili

i) Jaza (al. 1)

ii) Muhibu (al. 1)

7. SHAIRI B

Soma shairi hili kisaha ujibu maswali

1. Punda kalibebe gari, gari limebeba punda.
Mwalimu ana pakari, muashi vyuma adunda
Jaji gonga msumari, sonara osha vidonda
Kinyume mbele.

2. Saramala ahubiti, muhunzi tiba apenda
Mganga anabiri, baharini anakwenda
Hata fundi wa magari, anatomea vibanda
Kinyume mbele

3. Wakili anahiyari, biashara kuitenda
Mtazame askari, akazakaza kitanda,
Mkulima mashuhuri, jembe limemshinda
Kinyume mbele

4. Apakasa daktari, ukili anaupinda
Seveya kawa jabari, mawe anafundafunda,
Hazini wa utajiri, mali yote aiponda,
Kinyume mbele

5. Msemi huwa hasemi, wa inda hafanyi inda
Fahali hawasimami, wanene walishakonda
Walojitia utemi, maisha yamewavunda
Kinyume mbele

6. Kiwapi cha kukadiri, twavuna shinda kwa shinda
Tele haitakadiri, huvia tulivyopanda
Mipango nmehajiri, la kunyooka hupinda
Kinyume mbele

MASWALI

a) Mtunzi aliuwa na malengo gani alipotunga shairi hili? **(al. 3)**

b) Licha ya tarbia, eleza bahari nyingine zinazojitokeza katika shairi hili. **(al. 4)**

c) Eleza namna mtunzi alivyotumia uhuru wake**. (al. 5)**

d) Ni mbinu gani inayotawala shairi hili? **(al. 2)**

e) Uandike ubeti wa nne katika lugha **nathari** **(al. 4)**

f) Eleza toni ya shairi hili **(al. 2)**

SEHEMU E

7. FASIHI SIMULIZI

1. Eleza vigozi vinne vya kuandika methali **(al. 4)**

2. Eleza fani zinazozijenga vitendawili vifuatavyo **(al. 4)**

i) Ajenga ingawa hana mikono

ii) Jani la mgomba laniambi habari zinazotoka ulimwenguni kotew

3. Nini tofauti kati ya misimu na **lakabu ?** **(al. 2)**

4. I) Miviga ni nini ? **(al. 2)**

ii) Fafanua hasara zozote tano za miviga **(al. 5)**

5. I) Tambua kipera cha maka yafuatayo **(al. 2)**

" Wewe ni mbumbumbu kiasi kwamba ukiona picha yako kwenye kioo unashangaa ulimwona wapi mtu huyo".

i) Ngomezi ni nini? **(al. 1)**

SOARING HIGH 2026 KCSE PREMOCK

KCSE SERIES 1 TRIAL

BIOLOGY

231/1

PAPER 1

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education (Kcse)

INSTRUCTIONS TO CANDIDATES

1. *Write your name, admission number, school and stream in the spaces provided above.*
2. *Answer all the questions in the spaces provided.*

FOR EXAMINERS USE ONLY

QUESTIONS	MAXIMUM SCORES	CANDIDATE'S SCORE
1 – 31	80	

QUESTIONS

1. Define the term Entomology. **(1mk)**

……

……

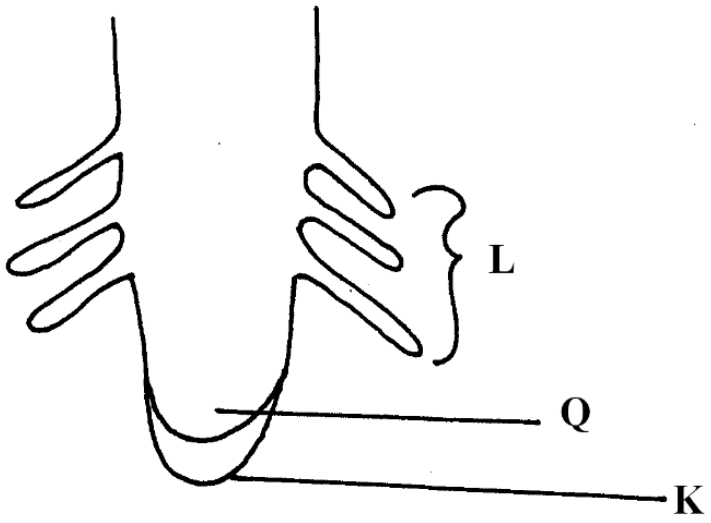
2. What is meant by the term Natural Selection? **(2mks)**

……

……

……

3. The diagram below shows regions of a root-tip



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

……

……

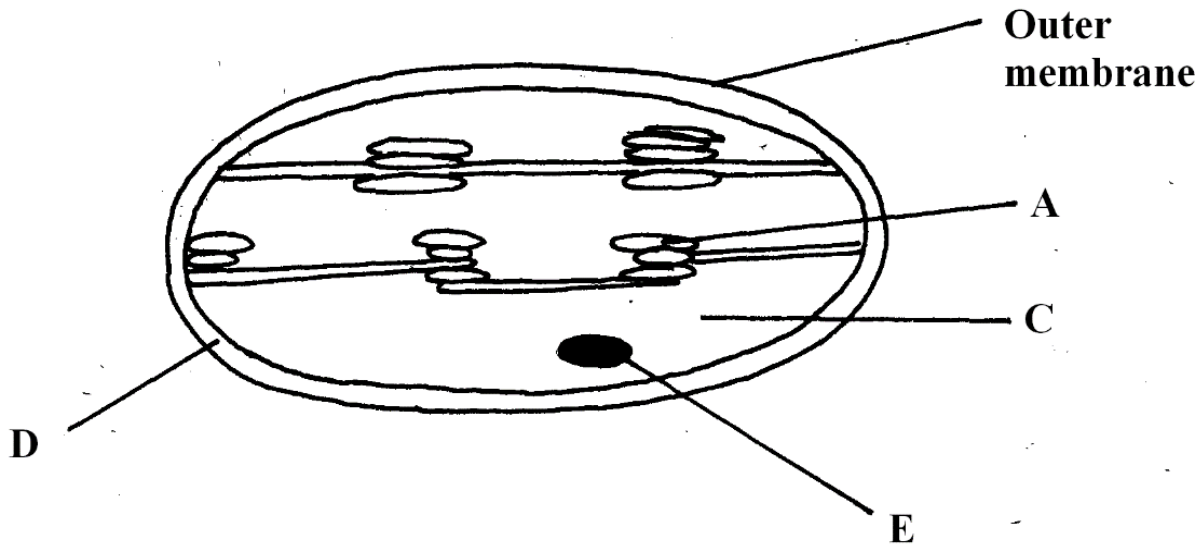
b) Name the region labeled L. **(1mk)**

……

c) Give ONE characteristics of the cells in the part labeled Q. **(1mks)**

……

4. The organelle below is important in the process of Nutrition.



a) Identify the organelle. **(1mk)**

……

b) Name the part labeled C. **(1mk)**

……

c) Identify the structure within the organelle that would make the leaf to be variegated. **(1mk)**

……

5. A Rhinocerous in a game park was found to be infested with ticks. State the trophic level occupied by **Ticks** **(2mks)**

……

……

6. State the causative agent of the following diseases. **(2mks)**

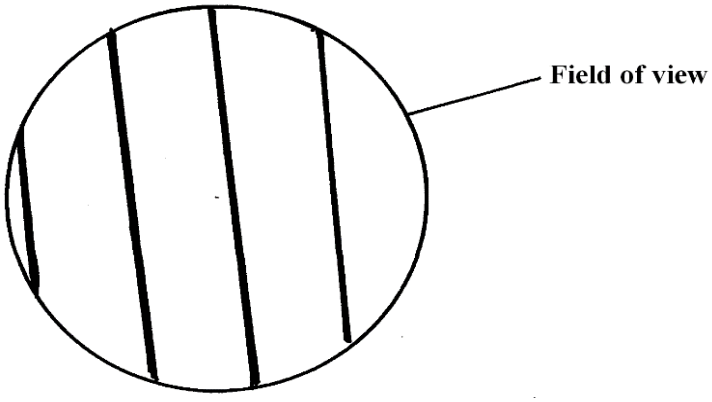
a) Typhoid

……

b) Pneumonia

……

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



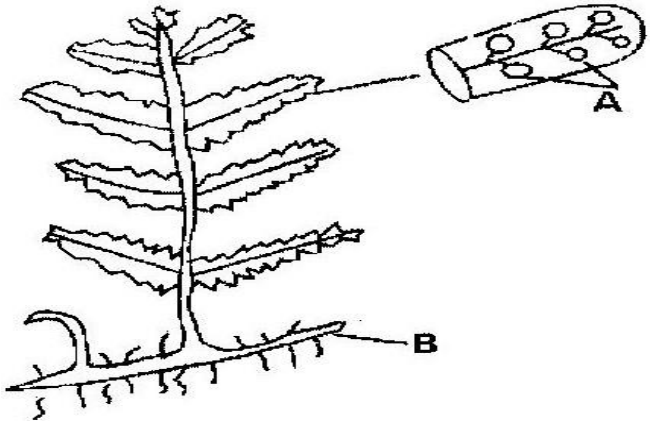
The student identified 20 cells across the field of view. Calculate the size of the cell in Micrometers (show your working) **(3mks)**

8. Name the tissues whose cells are thickened with:

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

b. Lignin. **……..……** **(1mk)**

9. The diagram below represents a fern.



(a) Name Parts labeled A and B. **(2mk)**

A ……..

B ……

(b) To which division does the plant belong? **(1mk)**

……

10. Explain how the following factors hinder self-pollination in plants:

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

……

……

(ii) Dioecism **(1mk)**

……

……

11. Explain the likely effect on humans and other organisms of untreated sewage discharged into water body that supplies water for domestic use**.** **(3mk)**

……

……

……

……

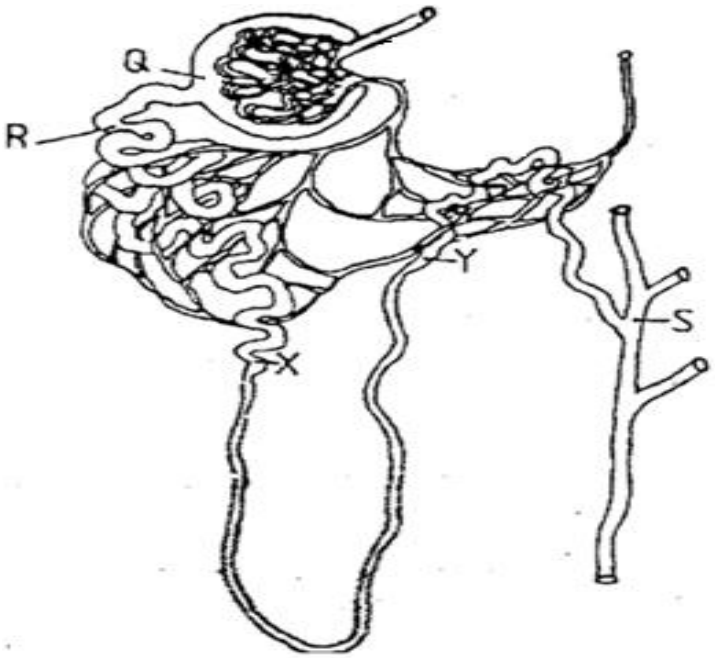
12. State TWO differences between osmosis and active transport. **(2mk)**

……

……

……

13. The diagram below illustrates part of a nephron from a mammalian kidney.



a) Name the fluid found in the part labeled Q. **(1mk)**

……

b) Identify the process responsible for the formation of the fluid named in (a) above. **(1mk)**

……

c) Which two hormones exert their effect in the nephron? **(2mk)**

……

……

14. State TWO characteristics of members of kingdom Monera that are not found in other kingdoms. **(2mk)**

……

……

15. What is meant by the following biological terms?

i) Crenation **(1mk)**

……

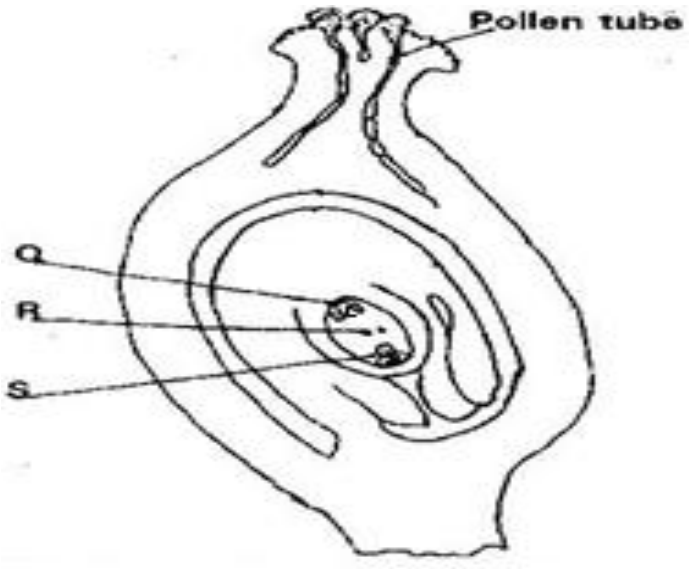
……

ii) Haemolysis **(1mk)**

……

……

16. The diagram below shows a stage during fertilization in flowering plant.



a) Name the parts labeled Q, R, and S. **(3 mk)**

Q ……

R ……..

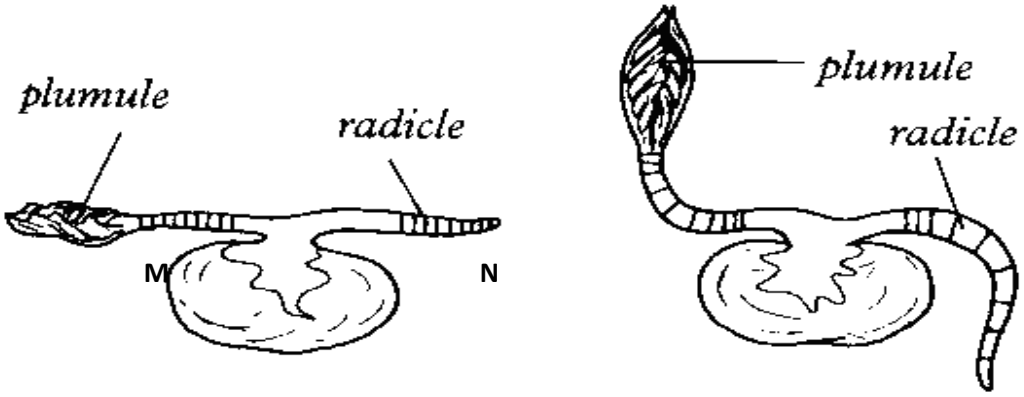
S ……

b) State the function of the pollen tube. **(1 mk)**

……

……

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



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

……

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

……

……

……

……

18. The paddles of whales and the fins of fish adapt these organisms to aquatic habitats.

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

……

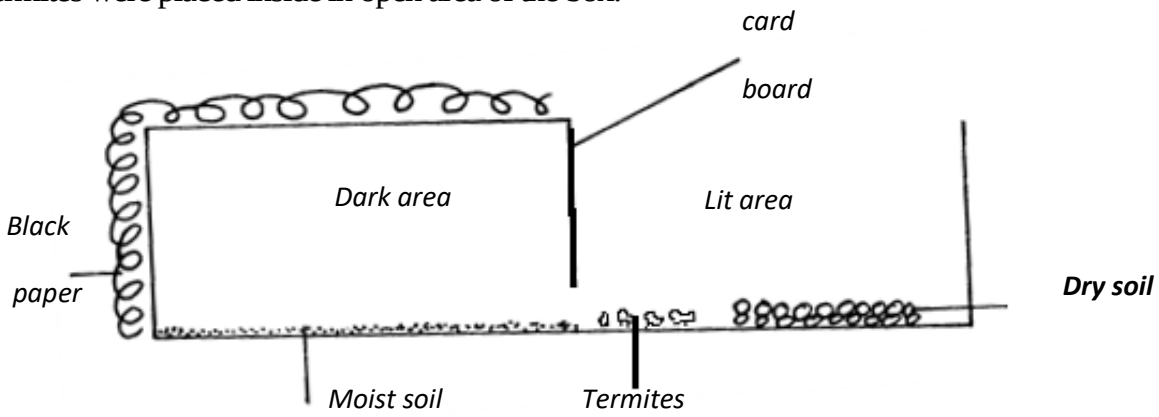
b) What is the name given to such structures? **(1mk)**

……

c) Give ONE example of vestigial organs in man. **(1mk)**

……

19. A group of Form four students set up an experiment to investigate a biological process using termites. They used a small box in which a portion was covered with black paper and had moist soil. The open part had dry soil. Termites were placed inside in open area of the box.



a) Predict what happened to the termites after 30 minutes**.** **(1mk)**

……

……

b) What form of response is exhibited by termites**?** **(1mk)**

……

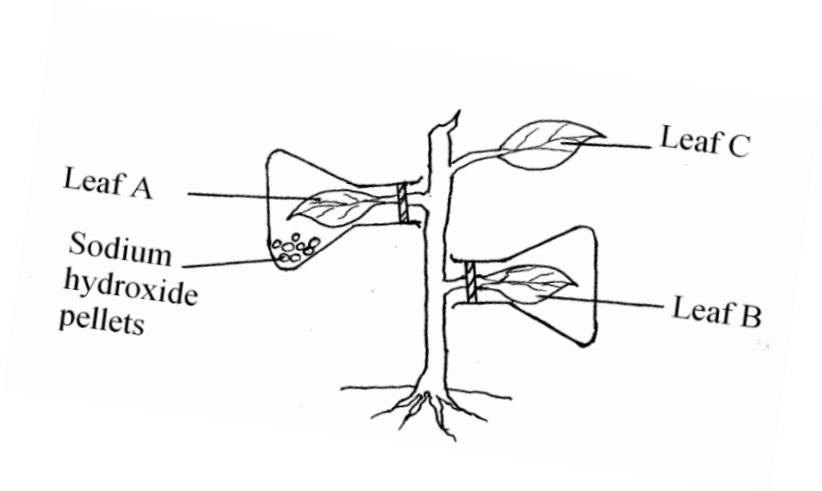
c) State one biological significance of the above response to termites**.** **(1mk)**

……

……

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

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



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

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

……

……

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

A and B.

A …… **(1mk)**

B …… **(1mk)**

ii) Account for the results in leaf A in b (i) above. **(1mk)**

……

……

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

……

21) Explain why a pregnant woman excretes less urea compared to a woman who is not- pregnant. **(2mk)**

……

……

……

22. a) Outline the main features of Lamarckian theory of evolution. **(2mk)**

……

……

……

b) In view of modern genetics, explain why Lamarck's theory is unacceptable**.** **(1mk)**

……

……

c) Name one factor in nature that increases the process of evolution. **(1mk)**

……

23. Explain why fresh water Protozoa like amoeba do not burst when placed in distilled water.

(2mks)

……

……

……

24. The equation below shows an oxidation reaction of flow food substance

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

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

……

……

……

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

……

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

……

……

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

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

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

(i) Potassium …… (1mk)

(ii) Chloride……..(1mk)

27. In an experiment **<u>Drosophila</u> <u>melanogaster</u>** (fruit flies) with broad abdomens were crossed with those having narrow abdomens. All the offspring (F1 generation) from the crosses had broad abdomens. Using A to denote the genes for abdomen size,

(a) Give the genotypes of the parents **(2mks)**

……

……

……

(b) If 150 fruit flies had narrow abdomens in the second filial generation (F2) how many fruit flies with broad abdomens were in the same generation (show your working) **(2mks)**

……

……

……

28. Give a reason why two species in an ecosystem cannot occupy the same niche. **(1mk)**

……

……

29. A person was found to pass out large volume of dilute urine frequently. Name the:

(a) Disease the person was suffering from? **(1mk)**

……

(b) Hormone that was deficient **(1mk)**

……

30. Identify the processes X and Y and the unknown product Z in the chemical equations below;

[i] Glucose + Galactose $\xrightarrow{X}$ Lactose + Z **(2mks)**

X _____

Z _____

[ii] G + water $\xrightarrow{Y}$ Glucose + Fructose **(2mks)**

Y _____

SOARING HIGH 2026 KCSE PREMOCK

KCSE SERIES 1 TRIAL

BIOLOGY

231/2

PAPER 2

TIME: 2 HOURS

NAME……

SCHOOL…… **SIGN**……

INDEX NO…… **ADM NO**……

INSTRUCTIONS TO CANDIDATES.

1) *Write **your name** and **index number** in the spaces provided above.*
2) *Sign and write the date of examination in the spaces provided above.*
3) *This paper consists of section **A** and **B**.*
4) *Answer **ALL** questions in section A in the spaces provided.*
5) *In section **B** answer questions 6 (compulsory) and either question **7** or **8** in the spaces provided after question **8.***

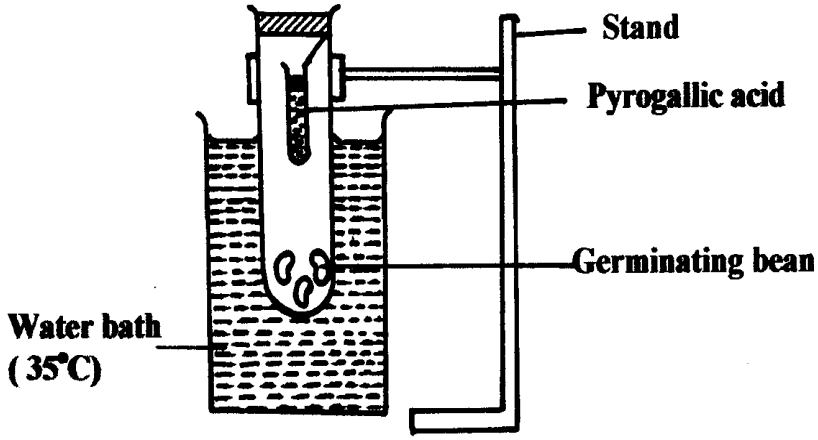
FOR EXAMINERS' USE ONLY.

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
A	1	8	
	2	8	
	3	8	
	4	8	
	5	8	
B	6	20	
	7	20	
	8	20	
	TOTAL	80	

SECTION A (40MARKS)

Answer all questions in this section in the spaces provided.

1 The diagram below shows a set up to investigate a factor necessary for germination.



a) Name the factor under investigation. **(1mk)**

……

b) State the role of pyrogallic acid in the set up. **(1mk)**

……

……

c) Which type of respiration is taking place in the beans? **(1mk)**

……

d) Write a word equation for the process named in (c) above. **(1mk)**

……

e)Explain why plants can only carry out the above respiration process for a short while. **(1mk)**

……

……

f) State other **three** factors necessary for germination. **(3mks)**

……

……

……

……

2 **a**) Birds have beaks which are structurally modified to different modes of feeding.

(i) What is the name given to such structures in evolution**?** **(1 mark)**

……

(ii) What is the name given to the evolution of beaks of **birds?** **(1 mark)**

……

b) (i) What is meant by "vestigial structures**"?** **(1 mark)**

……

……

(i) Name two vestigial structures present in man. **(1 mark)**

……

……

c) Bacteria tend to develop resistance to antibiotics after they have been subjected to them for a long period of time. Explain. **(2 mrks)**

……

……

……

d) Explain continental drift as an evidence of evolution**.** **(2 mrks)**

……

……

……

3 a) What is internal fertilization ? **(1mk)**

……

……

b) Suggest two disadvantages of internal fertilization in most mammals. **(2mks)**

……

……

……

c) State two roles of placenta in mammals. **(2mks)**

……

……

d) Mention one role played by each of the following hormones in human menstrual cycle. **(3mks)**

i) Oestrogen

……

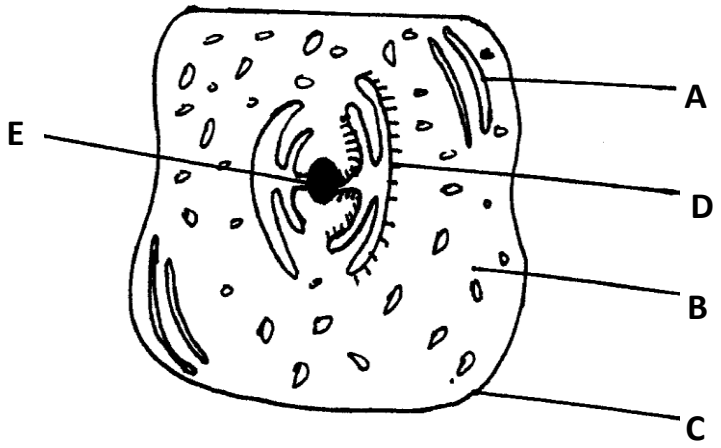
ii) Luteinizing hormone

……

iii) Follicle stimulating hormone

……

4. Below is a cell obtained from a living organisms. Study it and answer the questions that follow



(a) From which kingdom of organism was the cell obtained? **(1mk)**

……

(b) Give **two** reasons for your answer in 4 (a) above **(2mks)**

……

……

……

(c) On the diagram identify parts **A,B** and **C**. **(3mks)**

A……

B……

C……

(d) State the role of parts **D** and **E**. **(2mks)**

D:……

E:……

5 a) What is meant by the term linked genes? **(1mk)**

……

……

b). Haemophilia is a genetic condition transmitted through a recessive gene linked to **X** chromosome. The normal gene may be represented by $\mathbf{X^H}$**.**

i) What is the genotype of a haemophilic female? **(1mk)**

ii) A woman who is a carrier for the haemophilia gene marries a normal man. Work out the phenotypic ratio for their offspring**.** **(4mk)**

……

……

……

……

……

……

……

……

……

iii) Haemophilia is more common in males than in females. Explain this phenomenon. **(2mks)**

……

……

……

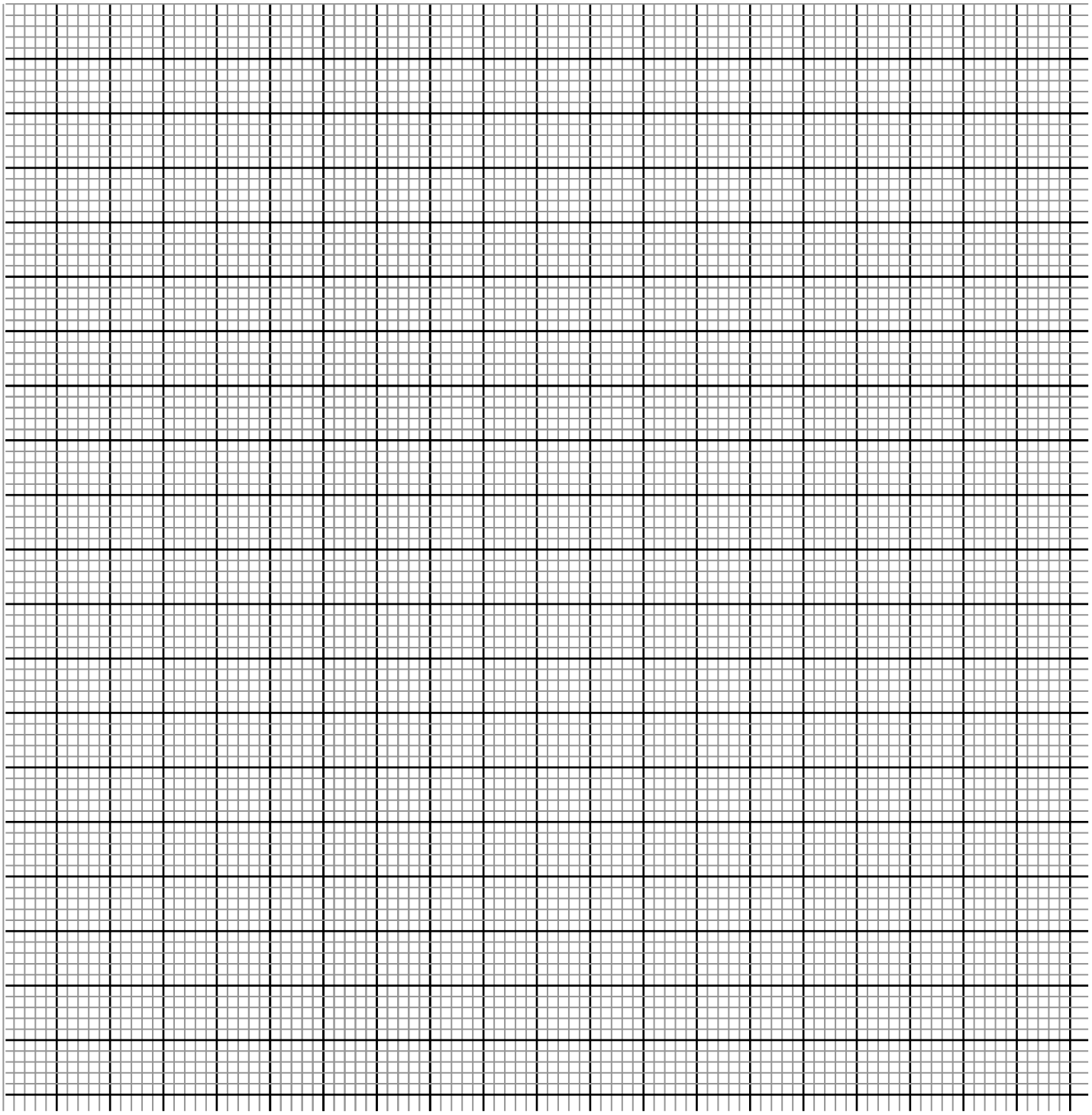
SECTION B (40 MARKS)

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

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

External temperature	Urine cm^3/hr	Sweat cm^3/hr
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) On the same axis plot graphs of the quantities of urine and sweat produced against the external temperature. **(7mks)**



(b) At what temperature are the amounts of sweat and urine produced e**qual?** **(1mk)**

……

……

……

(c) What happens to the amount of sweat produced as the temperature rises? Explain the observation. **(3mks)**

……

……

……

……

……

(d) Account for the observation made on the amount of urine produced as the temperature increases **(3Mks)**

……

……

……

……

(e) (i) How is the kidney adapted to its function **(4mks)**

……

……

……

……

……

(ii) Differentiate between excretion and egestion. **(2mks)**

……

……

……

7. Explain how the following organisms are adapted to their mode of feeding

(a) Herbivores **(10mks)**

(b) Carnivores **(10mks)**

8. (a) (i) State **two** significances of transpiration**.** **(2mks)**

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

(b) Describe the mechanism of opening and closing of stomata using photosynthetic theory **(10mks)**

SOARING HIGH 2026 KCSE PREMOCK

KCSE SERIES 1 TRIAL

BIOLOGY

231/3

PAPER 3

TIME: 1¾ HOURS

SCHOOL…… SIGN……

CONFIDENTIAL

BIOLOGY REQUIREMENTS PRACTICALS

INSTRUCTIONS TO SCHOOLS

(Care must be taken to ensure that the information herein doesn't reach the candidates)

Candidates require the following in the working Bench

a) *Ripe orange fruit-* ***labeled E (Each candidate)***
b) *Scalpel*
c) *1%Cuso4*
d) *10%NaoH*
e) *Distilled water/tap water*
f) *Test tube rack*
g) *Test tube holder*
h) *0.01% Dichlorophenol Indophenol (**DCPIP**) Solution*
i) *Three clean test tubes*
j) *Means of labeling*
k) *Source of heat*
l) *Benedict's solution*
m) *Tripod stand*
n) *Wire gauze*
o) *50ml glass beaker*
p) *Water bath*

SOARING HIGH 2026 KCSE PREMOCK

KCSE SERIES 1 TRIAL

BIOLOGY

231/3

PAPER 3

TIME: 1¾ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education

INSTRUCTIONS

Answer all questions in spaces provided

EXAMINER'S USE

QUESTIONS	MAX.MARKS	CAND.SCORE
1	17	
2	11	
3	12	
TOTAL	40	

QUESTIONS

1. You are provided with specimen labeled **E**, examine specimen **E**

a) Giving reasons, identify the type of the fruit? **(2mks)**

b) Cut a transverse section through **specimen E**, make a well labeled diagram **(5mks)**

c) State the type of placentation of **E** **(1mk)**

d) i) Name the agent of dispersal for **E** **(1mk)**

ii) State how **E** is adapted to its mode of dispersal **(2mks)**

e) Squeeze out the juice from **specimen E** into test tubes and using the regents provided carry out food test and fill in the table below **(6mks)**

Food test	**Procedure**	**Observation**

2. Study the photographs and answer the following questions.



PLATE 5



PLATE 6



PLATE 7

(i) The photograph in Plate **5** shows the germination process in a species of legume.

(a) (i) Name the type of germination shown in the photograph. **(1 mark)**

(ii) Give a reason for your answer. **(1 mark)**

(b) Other than germination the seedling has shown some responses.

(i) Name **two** responses shown in the photograph. **(2 mrks)**

(ii) State **one** survival value of each of the response named above. **(1 mark)**

(ii) **Examine** the photograph in Plate **6** and Plate **7** which show different essential parts of a flower of a species on two different plants.

(a) Name the flower parts shown in Plate **6** and Plate **7**. **(2 mrks)**

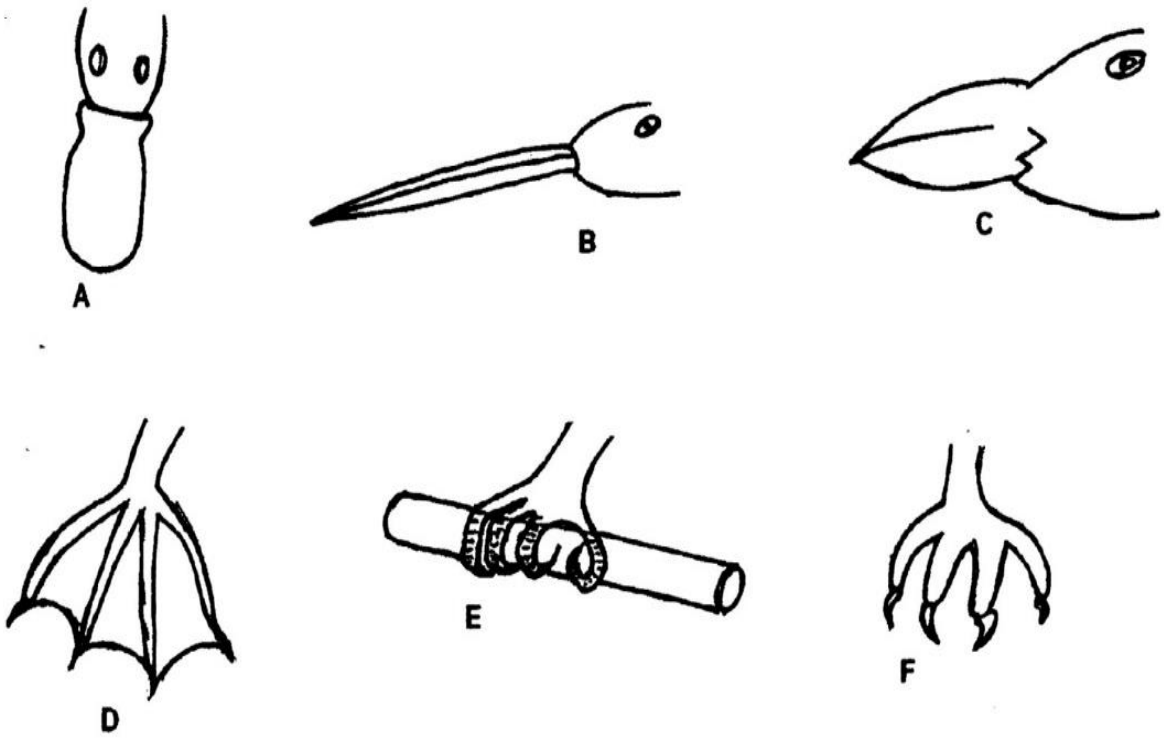
(b) **(i)** Name the phenomenon described in the statement above. **(1 mark)**

(ii) Explain the significance of the phenomena stated in (a)(i) above. **(1 mark)**

(c) (i) State the mode of pollination of the flower shown in the photograph. **(1 mark)**

(ii) Give a reason for your answer. **(1 mark)**

3. The diagrams below represent body parts of some organisms (animals). Study them and answer the question that follow.



TWO 2019 BIO PONE

(a) i) Suggest the type of food eaten by organisms with the parts labeled A, B, C and **F(4 mrks)**

ii) With reasons, suggest the likely habitat of the organism from which the parts labeled D and E were obtained. **(4 mrks)**

(b) (i) Suggest the type of evolution that is exemplified by the organisms labeled D, E and F. Give reason for your answer. The type of evolution **(2mks)**

(ii) Suggest the significance of the above named type of evolution for the organism **(2mks)**

SOARING HIGH 2026 KCSE PREMOCK

KCSE SERIES 1 TRIAL

CHEMISTRY

233/1

PAPER 1

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

INSTRUCTIONS TO CANDIDATES

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

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

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

d) *Mathematical table and silent electronic calculators may be used.*

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

FOR EXAMINERS USE ONLY

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1-30	80	

QUESTIONS

1. State **two** reasons why most apparatus in the laboratory are made of glass **(2mks)**

……

……

2. The following is an organic compound represented as $CH_3CH_2COOCH_2CH_3$

(i) Name the organic acid and the alkanol used in making the compound **(2mks)**

……

(ii) Name the organic compound and the gas formed when the alkanol in (i) above is reacted with Potassium **(1mk)**

……

3. Use the information below to answer the question that follows

$Ca_{(s)} + ½\ O_{2(g)} \longrightarrow CaO_{(s)}$; ΔH=-635KJmol$^-$

$C_{(s)} + O_{2(g)} \longrightarrow CO_{2(g)}$; Δ H= -394KJmol$^-$

$Ca_{(s)} + C_{(s)} + {}^3/_2O_{2(g)} \longrightarrow CaCO_{3(s)}\Delta H$= -1207 KJmol$^-$

Calculate the enthalpy change for the reaction

4. **(a) What** is the role of the following parts during fractional distillation of a mixture of water and ethanol

(i) Fractionating column **(1mk)**

……

……

(ii) Glass beads in the fractionating column **(1mk)**

……

……

(b) State any one application of fractional distillation process **(1mk)**

……

……

5. Name the process which takes place when:

(i) Iodine changes directly from solid to gas **(1mk)**

……

(ii) $Fe^{2+}_{(aq)}$ changes to $Fe^{3+}_{(aq)}$ **(1mk)**

……

……

(iii) White sugar changes to black solid when mixed with excess concentrated sulphuric (VI) acid **(1mk)**

……

……

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

……

……

……

……

7. **(a)** Name a suitable drying agent to be used to dry chlorine gas **(1mk)**

……

……

(b) Chlorine reacts with red hot powder to give iron (III) chloride but not iron (II) chloride. Explain? **(1mk)**

……

……

(c) Sodium hydroxide reacts with chlorine to form bleaching powder. Write a balanced equation for the reaction **(1mk)**

……

……

8. The electronic arrangement of elements are represented by letters A to D are as follows

A:2.8.6 B:2.8.2 C:2,8,1 D2:8.8

(a) Select the element which forms

(i) Double charged cation **(1mk)**

……

(ii) A soluble carbonate. **(1mk)**

……

(b) Which element has the shortest atomic radius? **(1mk)**

……

9. Describe how a sample of Lead (II) chloride can be prepared using the following reagents dilute nitric (V) acid; dilute hydrochloric acid and lead carbonate **(3mks)**

……

……

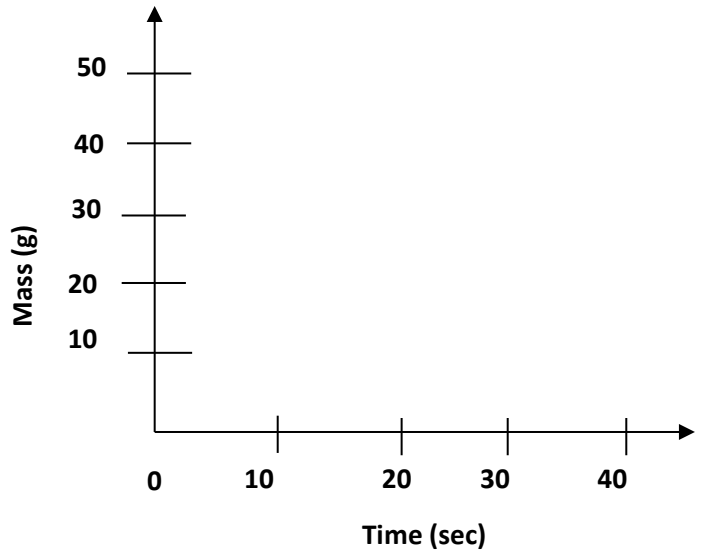
……

……

……

10. A radioactive element of mass 50g has a half-life of 10 seconds

(a) Sketch a graph of mass against time to show how the element mass varies with time **(2mks)**



(b) Give **one** use of radioactive in industries **(1mk)**

……

……

11. State and explain **one** disadvantage of using hard water in boilers **(2mks)**

……

……

……

12. Hydrogen sulphide gas was passed through a solution of iron(III) chloride

(i) State and explain the observations made **(2mks)**

……

……

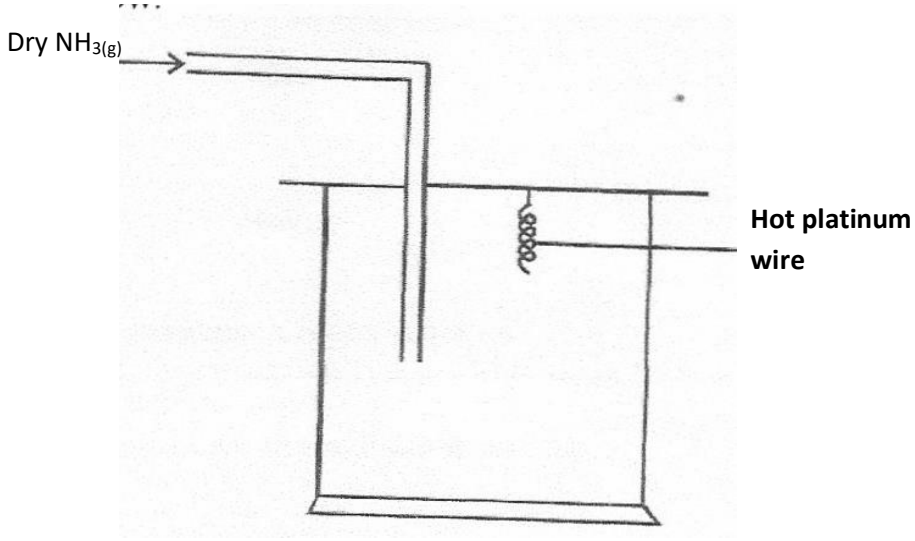
……

(ii) Write an ionic equation for the reaction taking place in (i) above **(1mk)**

……

……

13. The apparatus below was set up to show the catalytic oxidation of ammonia. Study the diagram and answer the questions that follow



(i) Write an equation for the reaction that takes place in the gas jar **(1mk)**

……

(ii) What is the role of hot platinum wire? **(1mk)**

……

……

(iii) Write the formula of the complex ion formed when excess ammonia gas is passed through a solution containing Zn^{2+} ions. **(1mk)**

……

……

14. A solution of silver nitrate was put in a container made of metal Q for 1 day. Given that:

$Q^{2+}_{(aq)} + 2e^- \rightleftharpoons Q_{(s)} : E^{\theta} = 0.130v$

$Ag^{+}_{(aq)} + e \rightleftharpoons Ag_{(s)} : E^{\theta} = +0.80v$

Determine whether or not a reaction occurred between silver nitrate and metal Q **(2mks)**

……

……

……

15. The table below shows the solubility of salt at various temperatures

Temperature	Solubility g/100g of water
0	36
40	30
80	25
110	20

What would happen if a sample of a saturated solution of the salt 40^{o}C is heated to 80^{o}C? Explain **(2mks)**

……

……

……

16. The equation given below represents a redox reaction

$$Mg_{(s)} + 2HCl_{(aq)} \longrightarrow MgCl_{2(aq)} + H_{2(g)}$$

(i) Write the equation of the reduction process **(1mk)**

……

(ii) Which substances is oxidized? **(1mk)**

……

17. When a current of 1.5 amperes was passed through cell containing M^{2+} ions on metal M for 15 minutes the mass of the cathode increased by 0.26g. (1F=96500C)

(i) Calculate the quantity of electricity used **(1mk)**

(ii) Determined the relative atomic mass of metal M **(2mks)**

18. State any **two** differences between luminous and non-luminous flames **(2mks)**

……

……

……

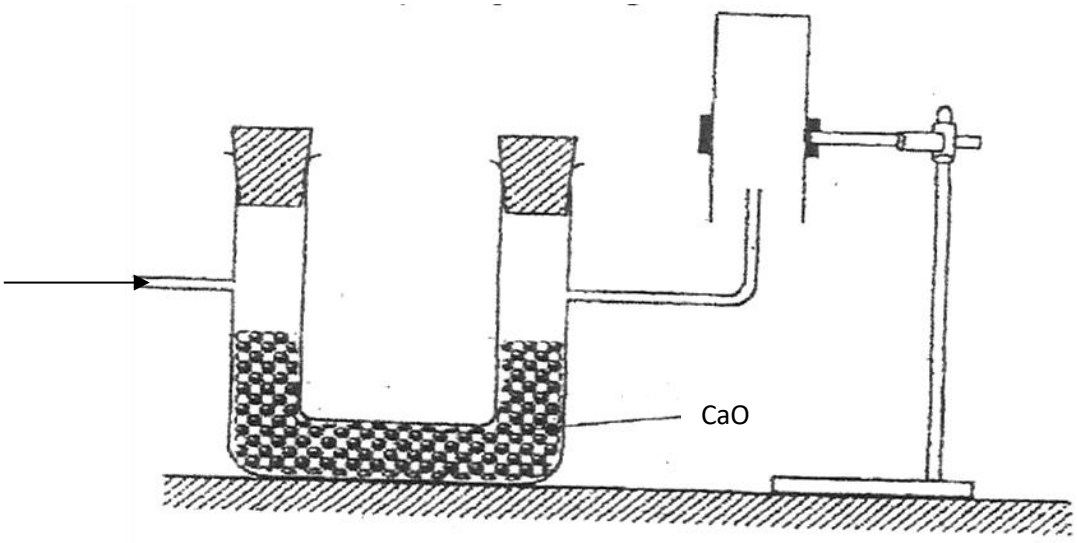
19. (a) State Graham's law of diffusion **(1mk)**

……

……

(b) The molar masses of gas **U** and **V** are 16.0 and 44.0 respectively. If the rate of diffusion of **U** through the porous materials is $12cm^{3-1}$. Calculate the rate of diffusion of V through the same materials **(2mks)**

20. The set up below was used to collect a dry sample of a gas



Give **two** reasons why the set-up cannot be used to collect carbon (IV) oxide gas **(2mks)**

……

……

……

21. Dilute sulphuric (VI) acid does not react fully with calcium carbonate while dilute hydrochloric acid reacts fully with calcium carbonate liberating carbon (IV) oxide. Explain **(2mks)**

……

……

……

22. On complete combustion of 0.5g of a hydro carbon; 1.257g of carbon (IV) oxide and 0.514g of water were produced. If the relative molecular mass of the hydrocarbon is 84, determine the molecular formula (*C=12,H=1,O=16)* **(3mks)**

21. The conversion of SO_2 to SO_3 in the contact process is shown by the equation

$$\mathbf{2SO_{2(g)} + O_{2(g)} \longrightarrow 2SO_{3(g)} \quad \Delta H = -197KJ}$$

(a) What would be the effect of?

(i) Increasing the concentration of Oxygen **(1mk)**

……

……

(ii) Increasing the temperature **(1mk)**

……

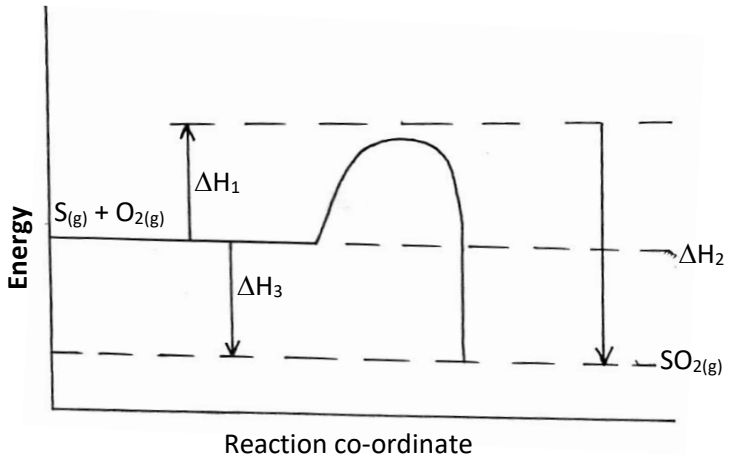
……

(b) Write an equation for the sulphuric (VI) acid from Oleum **(1mk)**

……

……

24. Sulphur burns in air to form sulpur (IV) oxide. A simple energy level energy level diagram for the reaction is given below. Study the diagram and answer the questions that follow:



(a) What do the following represents?ΔH_1 and ΔH_3 **(2mks)**

……

……

……

(b) Write an expression for ΔH_3in terms of $\Delta H_1$and ΔH_2 **(1mk)**

……

……

25. Given the reaction below

$$Zn_{(s)} + 2HCl_{(aq)} \longrightarrow ZnCl_{2(aq)} + H_{2(g)}$$

State how the following factors affect the rate of reaction giving explanation

(a) Using Zinc powder instead of granules **(1mk)**

……

……

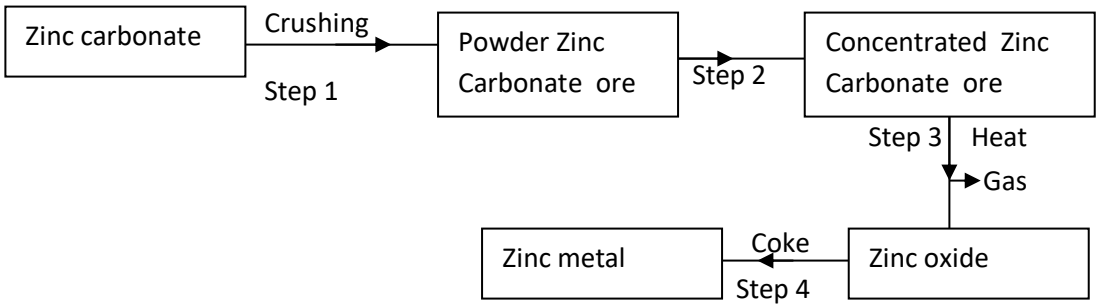
……

(b) Heating the reactants **(1mk)**

……

……

26. The flow chart below shows steps used in the extraction of zinc from one of its ores



(a) Name the process that is used in step 2 to concentrated concentrated zinc carbonate ore. **(1mk)**

……

(b) Write an equation for the reaction which takes place in step 3 **(1mk)**

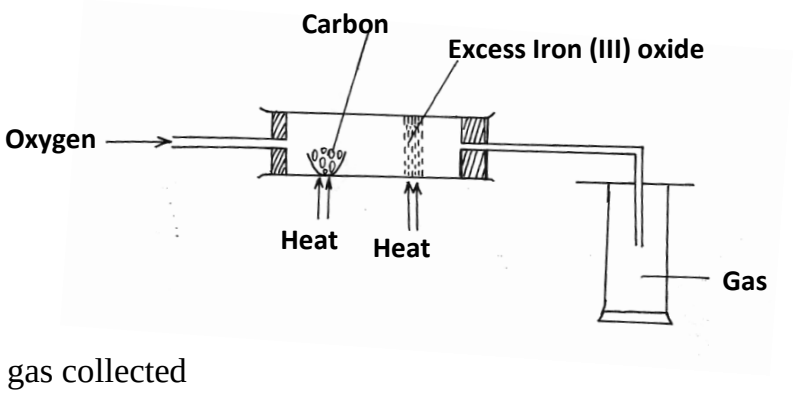
……

……

(c) Name one use of zinc other than galvanizing **(1mk)**

……

27. The set up below used to obtain a sample of iron



(a) Identify the gas collected **(½ mk)**

……

(b) What observation is made on the excess iron (III) oxide? **(½ mk)**

……

……

……

(c) Write equations for the two reactions that take place in the combustion tube **(2mks)**

……

……

28. The table below shows PH values of some solutions

Solution	A	B	C	D
PH values	13	7	1	6.5

(a) What solution reacts vigorously with Magnesium metal? **(1mk)**

……

(b) Which solution is likely to be that of Lemon juice? **(1mk)**

……

(c) Which solution forms complex ions with zinc (II) oxide? **(1mk)**

……

29. When a few drops of aqueous ammonia were added to Copper (II) Nitrate solution a light blue precipitate was formed. On addition of more aqueous ammonia a deep blue solution was formed. Identify the substances responsible for the:

(a) Light blue precipitate **(1mk)**

……

(b) Deep blue solution **(1mk)**

……

30. Explain why there is general increase in the first ionization energies of the elements in period 3 of the periodic table from left to right **(2mks)**

……

……

……

SOARING HIGH 2026 KCSE PREMOCK

KCSE SERIES 1 TRIAL

CHEMISTRY

233/2

PAPER 2

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

INSTRUCTIONS TO CANDIDATES

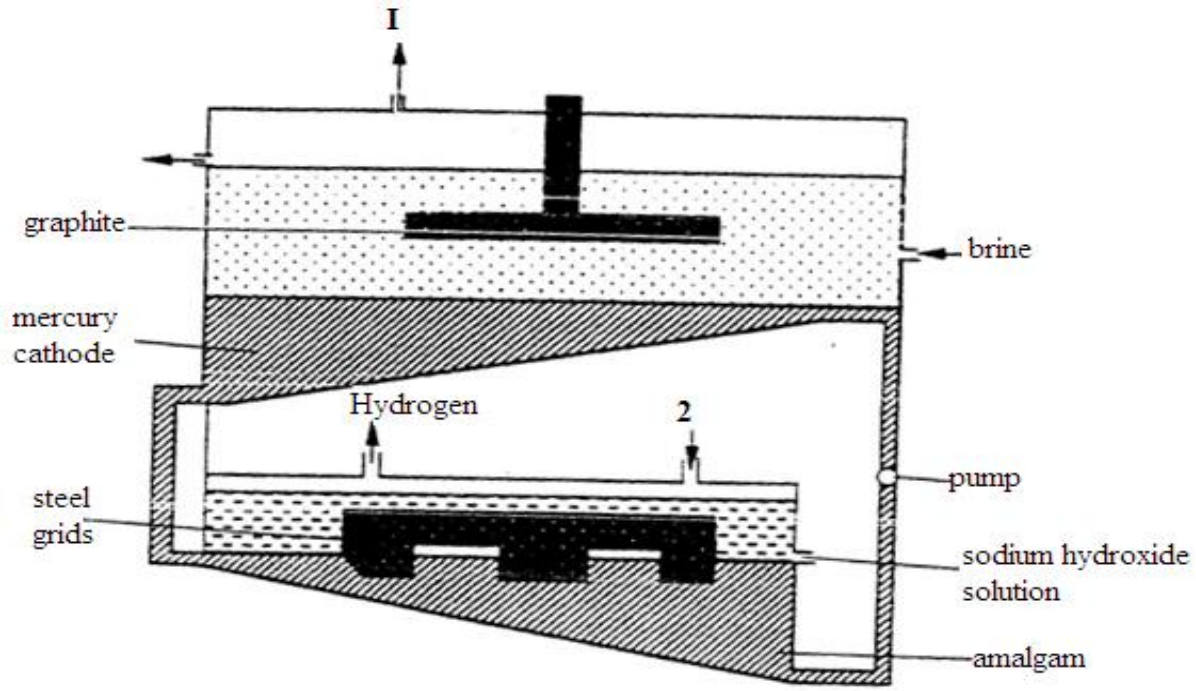
1. Write your name and admission number in the spaces provided above.
2. Sign and write the date of the examination in space provided.
3. Answer ALL the questions in the spaces provided in the question paper.
4. All working MUST be clearly shown where necessary.
5. Mathematical tables and silent electronic calculators may be used.

FOR EXAMINER'S USE ONLY

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1	10	
2	14	
3	8	
4	11	
5	13	
6	12	
7	12	
TOTAL SCORE	80	

QUESTIONS

1. The diagram below represents a mercury cell that can be used in the industrial manufacture of sodium hydroxide. Study it and answer the questions that follow



(a) (i) Name

I. the raw material introduced at 2**.** **(1mk)**

II. Another substance that can be used in the cell instead of graphite**.** **(1mk)**

(ii) Identify the by – product that comes out at I. **(1mk)**

(iii) Give

I. One use of sodium hydroxide**.** **(1mk)**

II. Two reasons why mercury is recycled**.** **(2mks)**

(b) A current of 100 amperes was passed through the cell for five (5) hours

(i) Write the equation for the reaction that occurred at the mercury cathode**.** **(1mk)**

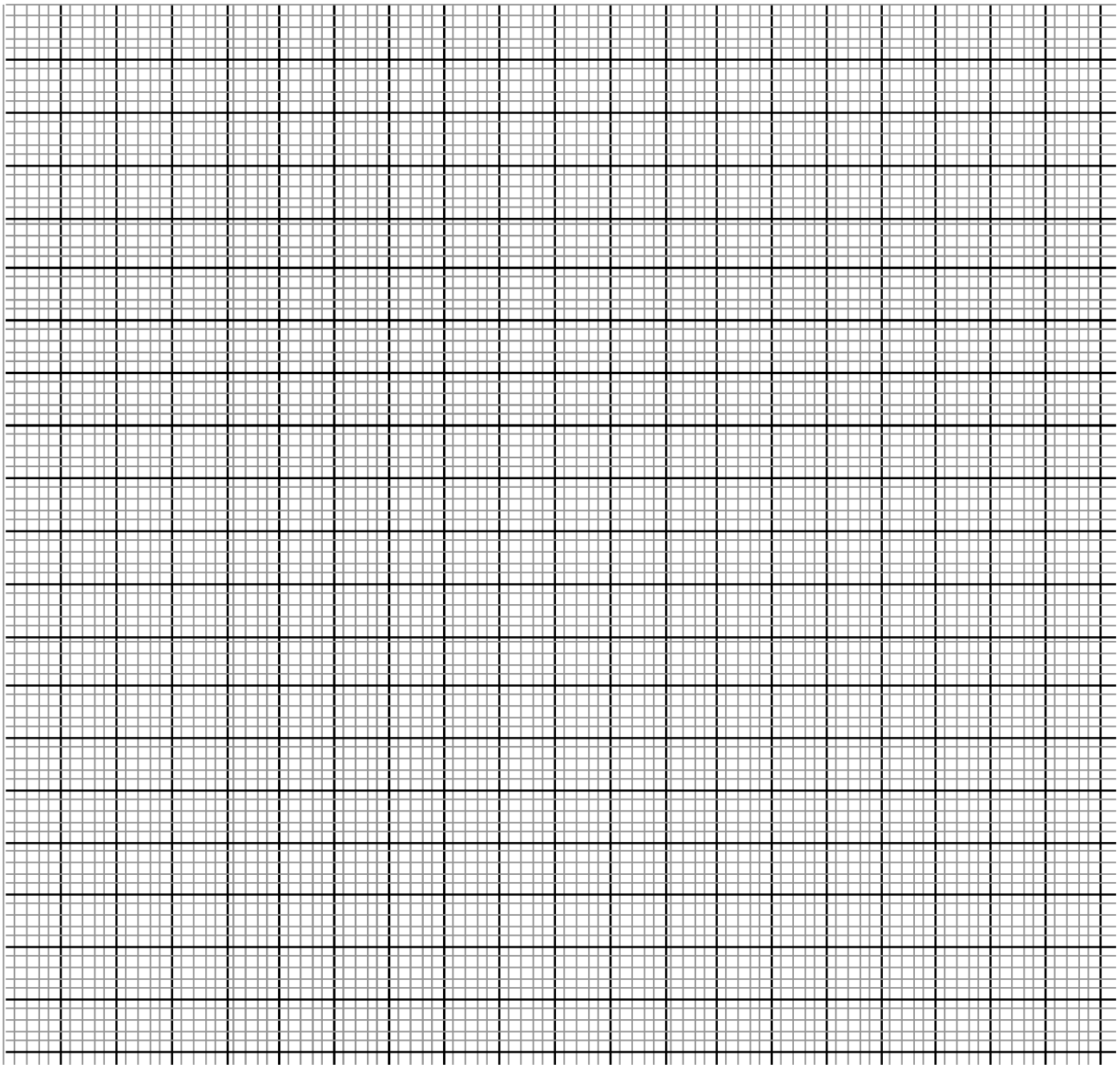
(ii) Calculate the mass of sodium hydroxide that was produced**.** **(3mks)**

(Na = 23.0, O = 16.0, H = 1.0, 1 Faraday = 96500 Coulombs)

2. In an experiment to study the rate for reaction between duralumin (an alloy of aluminium, magnesium and copper) and hydrochloric acid, 0.5g of the alloy were reacted with excess 4M hydrochloric acid. The data in the table below was recorded.

Use it to answer the questions that follow.

Time (minutes)	Total volume of gas (cm^3)
0	0
1	220
2	410
3	540
4	620
5	640
6	640



a) i) On the grid provided, plot a graph of total volume of gas produced (vertical axis) against time. **(3mks)**

ii) From the graph, determine the volume of gas produced at the end of 2 ½ minutes. **(1mk)**

b) Determine the rate of reaction between the 3rd and 4th minute**.** **(2mks)**

c) Give a reason why some solid remained at the end of the experiment. **(1mk)**

……

……

d) Given that 2.5cm^3 of the total volume of the gas was from the reaction between magnesium and aqueous hydrochloric acid,

(Al = 27.0 and Molar gas volume = 24,000cm^3 at 298K).

(i) Determine the volume of gas produced when hydrochloric acid reacted with aluminium metal. **(1mk)**

(ii) Write a chemical equation of the reaction in (i) above**.** **(1mk)**

……

(iii) Determine the percentage mass of aluminium present in 0.5g of the alloy. **(3mks)**

e) State two properties of duralumin that make it more suitable than aluminium in aeroplane construction**.** **(2mks)**

……

……

……

3. (a) What method can be used to separate a mixture of ethanol and propanol**?** **(1mk)**

……

……

(b) Explain how a solid mixture of sulphur and sodium chloride can be separated into solid sulphur and sodium chloride crystals**.** **(3mks)**

……

……

……

……

……

(c) The table below gives the solubilities of potassium bromide and potassium sulphate at 0^0C and 40^0C

Substance	Solubility g/100g water at	
	40^0C	80^0C
Potassium bromide	55	75
Potassium sulphate	85	95

When an aqueous mixture containing 60g of potassium bromide and 70 g of potassium sulphate in 100g of water at 80^0C was cooled to 40^0C some crystals were formed

(**i)** Identify the crystals. **(1mk)**

(ii) Determine the mass of the crystals formed. **(1mk)**

(iii) Name the method used to obtain the crystals. **(1mk)**

(iv) Suggest one industrial application of the method named in (iii) above**.** **(1mk)**

4. a)Give the name of the basic raw material for extraction of aluminium metal**.** **(1mk)**

……

b) Name the method that is used to extract aluminium from the basic raw material in (i) above. **(1mk)**

……

c) Write the chemical formula of the major component in the raw material in (i) above. **(1mk)**

……

d) i) Name two major impurities in the raw material in (i) above**.** **(2mks**)

……

……

ii) Explain how the impurities in named in (i) above are removed **(3mks)**

……

……

……

……

……

e)Cryolite is used in the extraction of aluminium from the basic raw material.

State its function **(1mk)**

……

……

f) Aluminium is a reactive metal yet utensils made of aluminium do not corrode easily. Explain this observation**.** **(2mks)**

……

……

……

5. a) The table below shows properties of chlorine, bromine and iodine.

Element	Formula	Colour and state room temperature	Solubility in water
Chlorine	Cl_2	i……	Soluble
Bromine	Br_2	Brown liquid	ii…….
Iodine	l_2	iii……	Slight soluble

Complete the table by giving the missing information in **(i),(ii) and (iii).** **(3mks)**

b)Chlorine gas is prepared by reacting concentrated hydrochloric acids with manganese (iv) oxide.

i) Write the equation for reaction between concentrated hydrochloric acid and manganese (iv) oxide**.** **(1mk)**

……

ii) What is the role of manganese (IV) oxide in this reaction**.** **(1mk)**

……

……

c) i)Iron (II) chloride reacts with chlorine gas to form substance E. Identify substance E. **(1mk)**

……

……

ii) During the reaction in c(i) above,6.30g of iron(II) chloride were converted to substance E. Calculate the volume of chlorine used**.** **(3mks)**

(Cl = 35.5, Molar gas volume at room temperature = 24000cm^3, Fe =56)

d) Draw and name the structure of the compound formed when excess chlorine gas is reacted with ethane gas. **(2mks)**

e) Give two industrial uses of chlorine. **(2mks)**

……

……

……

6. (a) The list below shows the formulae of some organic compounds. Use it to answer the questions that follow.

V_1. $CH_3CH_2CH_2OH$

V_2. $CH_3CH_2CH_3$

V_3. $CH_3CH_2CH_2C(=O)-OH$

V_4. $CH_3CH_2CH=CH_2$

V_5. $CH_3CH_2CH_2CH_3$

(i) Select two compounds which

I are not hydrocarbons **(1mk)**

……

……

II Belong to the same homologous series **(1mk)**

……

……

(ii) Identify the compound that is likely to undergo polymerization. Give a reason for your answer.

(2mks)

……

……

……

(b) The structures below represent two cleansing agents:

$R - COO^- Na^+$

$R - OSO_3^- Na^{+C}$

In the table below, give one advantage and one disadvantage of using each one of them. **(2mks)**

	Advantage	Disadvantage
$R - COO^- Na^+$		
$R - OSO_3^- Na^+$		

Under certain, ethanoic acid ($C_2H_4O_2$) and ethanol (C_2H_5OH) react to form a pleasant smelling compound.

(i) What is the general name of compound to which the pleasant compound belong? **(1mk)**

(ii) Write the formula of the pleasant smelling compound. **(1mk)**

(iii) Give one use of ethanoic acid other than the formation of the pleasant smelling compounds.

(1mk)

(iv) Write the equation for the reaction between dilute ethanoic acid and solid potassium carbonate **(1mk)**

(c) Fibres are either synthetic or natural. Give one:

(i) Example of a natural fibre **(1mk)**

(ii) Advantage of synthetic fibres have over natural fibres **(1mk)**

7. The grid below represents periodic table. Study it and answer the questions that follow. The letters do not represent the actual symbols of the elements.

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

I (a) Indicate on the grid the position of an element represented by letter N whose electronic configuration of a divalent cation is 2:8:8. **(1 mark)**

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

(c) Write an equation for the reaction between **B** and water. **(1 mark)**

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

(e) In terms of structure and bonding explain why the oxide of **G** has lower melting point than oxide of **L**. **(2 marks)**

II Study the information given below and answer the questions that follow:

Formula compound	NaCl	$MgCl_2$	Al_2C1_6	$SiC1_4$	$PC1_3$	$SC1_2$
B.P(ºC)	1470	1420	Sublimes	60	75	60
M.P(ºC)	800	710	At 800ºC	-70	-90	-80

(a) Why is the formula of aluminium chloride given as Al_2Cl_6 and not $AlCl_3$? **(1 mark)**

(b) Give **two** chlorides that are liquid at room temperature(25°c). Give a reason. (**2 marks)**

(c Give a reason why Al_2Cl_6 has a lower melting point than M_gCl_2 although both Al and Mg are metals. **(1 mark)**

SOARING HIGH 2026 KCSE PREMOCK

KCSE SERIES 1 TRIAL

CHEMISTRY

233/3

PAPER 3

TIME: 2¼ HOURS

SCHOOL…… SIGN……

CHEMISTRY PAPER 3 233/3

CONFIDENTIAL OF REQUIREMENTS

a) *Burette*
b) *Pipette*
c) *2 conical flasks*
d) *80cm^3 of 2.0m NaoH labelled B*
e) *100cm^3 0f 0.2m H2So4 labelledA*
f) *250cm^3 volumetric flask*
g) *A label*
h) *Pipette filter*
i) *Stand and clamp*
j) *500cm^3 distilled water*
k) *Phenolphthalein indicator*
l) *100cm^3 plastic beaker*
m) *Thermometer*
n) *10cm^3 measuring cylinder*
o) *100cm^3 measuring cylinder*
p) *50cm^3 2.0m Hcl*
q) *50cm^3 2.0mNaoH*
r) *6 test tubes in a test tube rack*
s) *0.2g of solid N ($pbNo_3$]*
t) *0.2g of solid P (Na_2So_4)*

REAGENTS

a) *2m NaoH*
b) *2MNH4oh*
c) *Ba (No_3) $_2$solution*
d) *2m nitric acid*
e) *Potassium iodide solution*

SOARING HIGH 2026 KCSE PREMOCK

KCSE SERIES 1 TRIAL

CHEMISTRY

233/3

PAPER 3

TIME: 2¼ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES

[a]Answer ALL questions in the spaces provided in each question.

[b] Mathematical tables and electronic calculators may be used for calculations.

[c]all working must be clearly shown where necessary.

FOR EXAMINERS ONLY

QUESTION	MAXIMUM SCORE	CANDIDATES SCORE
1	15	
2	13	
3	12	
Total	40	

1. You are provided with

2.0m NaoH solution labelled B

H_2 SO_4 acid solution labelled A `

You are to:

[a]Prepare a dilute solution of NaoH solution.

[b]Determine the concentration of H_2SO_4in moles per litre.

PROCEDURE 1

Using a pipette 25.0cm^3 of solution B and place it into 250cm^3 volumetric flask.

Add about 200cm^3 of distilled water and share well.

Add more water to make up to 250cm^3mark. Label this solution C.

[a]Calculate the concentration of the dilute solution C in moles per litres. **[2mks]**

PROCEDURE 2

Fill the burette with solution A and record the readings in the table below.

Pipette 25cm^3 of dilute solution C and place it into 250ml conical flask.

Add 2-3 drops of phenolphthalein indicator.

Titrate with solution A.

Record your results in the table below.

Repeat the titration two or more times and complete the table. **[4mks]**

Titration no	I	II	III
Final burette reading (cm^3)			
Initial burette reading(cm^3)			
Volume of solution A(cm^3)			

[a]Determine average volume of the acid (solution A) used. **[1mk]**

[b]Determine moles of dilute solution C in the volume used. **[2mks]**

[c]Write an equation for the reaction between NaoH and H_2SO_4 acid. **[2mks]**

[d]Determine the number of moles of A (H_2SO_4) used. **[2mks]**

[e]Determine the concentration of A (H_2SO_4) in moles per litre. **[2mks]**

2. You are provided with the following

[i]2m sodium hydroxide solution

[ii]2m hydrochloric acid

You are required to determine the molar enthalpy of neutralization of the acid using sodium hydroxide.

PROCEDURE

[i]Measure out 20cm^3 of acid into a clean plastic beaker.

[ii]Record the temperature of this solution in the table below

[iii]Measure 5cm^3 of sodium hydroxide and add it to the hydrochloric acid.

[iv]Stir with the thermometer and record the maximum temperature reached.

[v]Repeat the above procedure adding 5cm^3 portions of sodium hydroxide until the total volume of the solution is 50cm^3. **[3mks]**

Volume of acid(cm3)	20	20	20	20	20	20	20
Volume of NaoH added cm^3	0	5	10	15	20	25	30
Temperature(°c)of solution							

You are required to:

1[a]. Plot a graph of temperature rise against sodium hydroxide added. **[4mks]**

[b]From your graph

[i]Determine the expected temperature rise. **[2mks]**

[ii]Calculate the molar enthalpy of neutralization for this reaction. (C=4.2J/g/℃) assume density of solution is 1gcm^{-3})

[iii]The theoretical molar heat of neutralization is -57.2kj/mol-1.Compare your value in [ii] above with the theoretical value. Give the reasons for any differences noted between these two **values.** **[2mks]**

3. You are provided with solid N carry out the tests below and record your observations and inferences.

[a]Place a spatular of N in a test tube and add $5cm^3$ of water and shake well divide the solution in to three portions. **[1mk]**

OBSERVATION	**INFERENCE**

[b]Add sodium hydroxide to the first portion drop wise while observing till in excess. **[2mks]**

OBSERVATION	**INFERENCE**

[c]Add ammonia solution to the second portion drop wise until in excess. **[2mks]**

OBSERVATION	**INFERENCE**

[d]Add four drops of potassium iodide solution to the third portion. **[2mks]**

OBSERVATION	**INFERENCE**

[e]Put spatular of solid P in a test tube and add 5cm^3 of water and shake well. Add three drops of acid bariumnitrate followed by 5 drops of nitric acid. **[4mks]**

OBSERVATION	**INFERENCE**

SOARING HIGH 2026 KCSE PREMOCK

KCSE SERIES 1 TRIAL

PHYSICS

232/1

PAPER 1

TIME: 2 HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

INSTRUCTIONS TO CANDIDATES

a) *This paper consists of two sections **A** and **B**.*
b) *Answer **all** the questions in the two sections in the spaces provided after each question*
c) *All working **must** be clearly shown.*
d) *Electronic calculators, mathematical tables may be used.*
e) *All numerical answers **should be expressed** in the **decimal** notations.*
f) *You may use 'g' as 10m/s^2*

FOR EXAMINER'S USE ONLY

SECTION	QUESTION	MAX. SCORE	CANDIDATE'S SCORE
I	1-14	25	
II	15	14	
	16	09	
	17	14	
	18	10	
	19	08	
TOTAL SCORE		80	

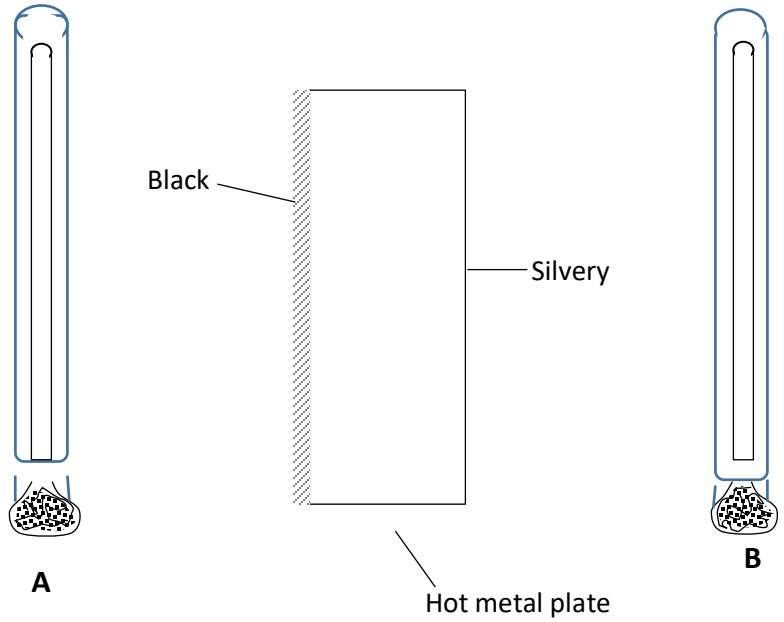
SECTION A (25 marks)

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

1 A micrometer screw gauge with a zero error –0.02mm was used to measure the diameter of a marble whose actual radius is 2.17mm. Determine the reading expected and hence draw the scale seen on the gauge (Pitch = 0.5mm). **(2 marks)**

2 Explain the variation of density of water when its temperature falls from 10^{o}C to freezing point. **(2 marks)**

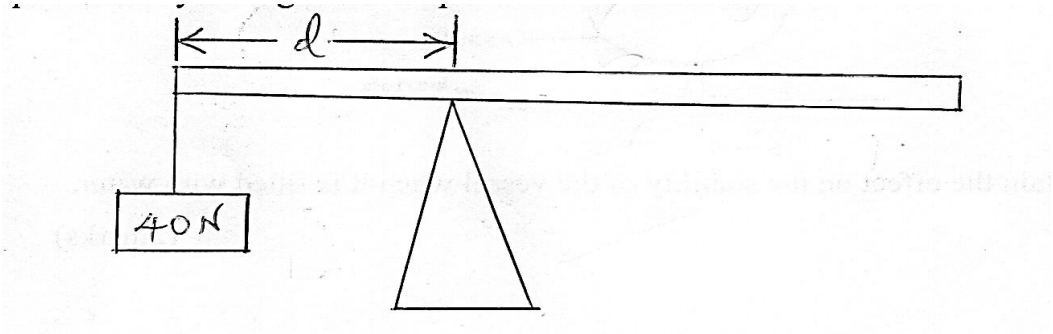
3 The figure below shows two identical thermometers **A** and **B** placed near and at equal distances on either sides of a hot metal plate painted black on the side **A** and silvery on side **B**.



State and explain the observation made on the reading of the thermometers after some minutes. **(2 marks)**

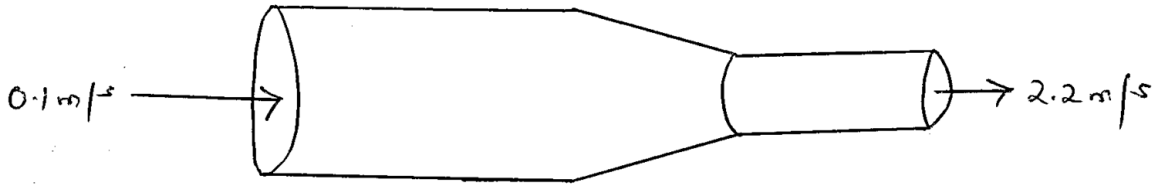
4 A body is acted upon by a force of 10N towards the right hand side and 6N towards the left hand side. Determine the resultant force. **(2marks)**

5 The figure below a uniform wooden plank of length 4m and weight 10N. The plank is held at equilibrium by a weight of 40N placed at one end as shown.



Determine the distance, d. **(3marks)**

6 The figure shows a non-viscous fluid that is not compressible moving through a pipe of varied cross-sectional area.



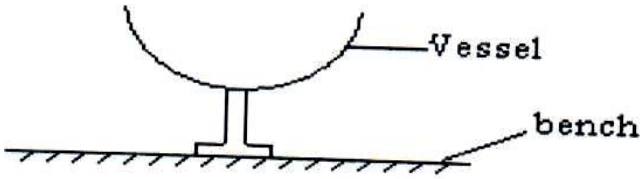
If the area of the narrower region is $0.05m^2$, determine the diameter of the wider region. **(3marks)**

7 State the S.I unit of luminous intensity. **(1mark)**

8 In terms of intermolecular forces, explain the difference between liquid and gaseous state.

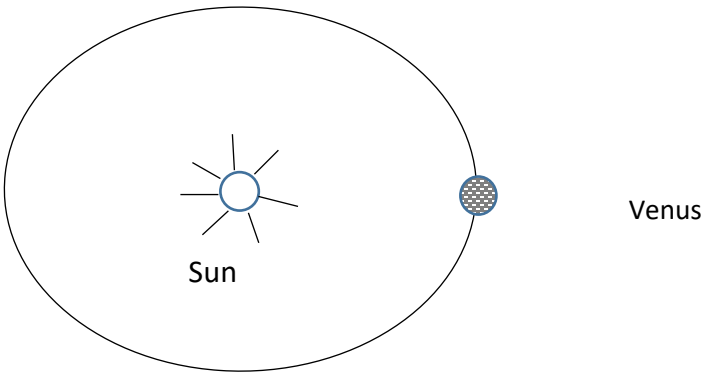
(2marks)

9 The figure shows a vessel resting on a horizontal bench.



State and explain the effect on the stability of the vessel when it is filled with water. **(2marks)**

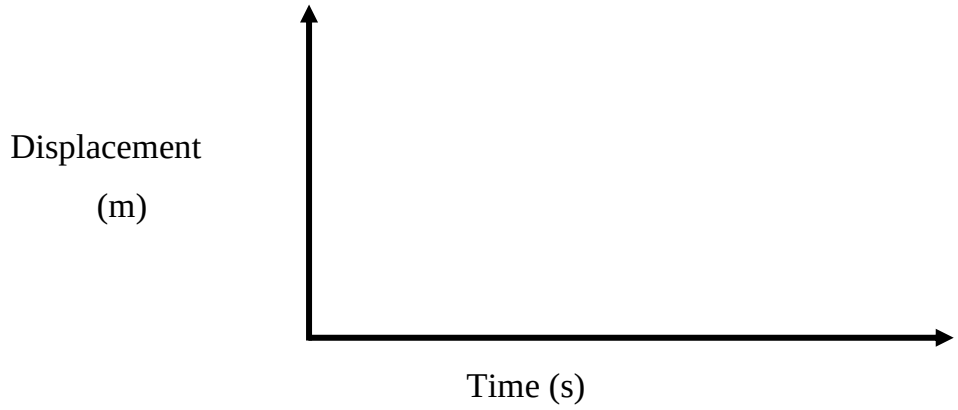
10The figure below shows a planet Venus orbiting the sun in a circular orbit at constant speed.



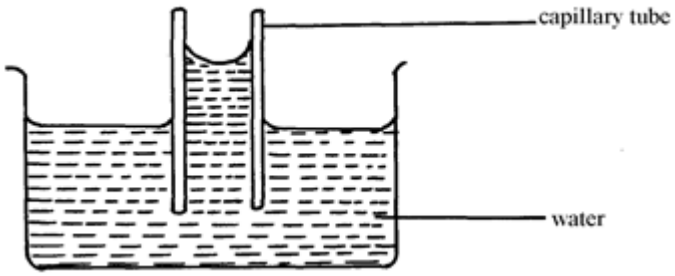
(i) State what provides the centripetal force. **(1 mark)**

(ii) Indicate the direction of centripetal force on the planet. **(1 mark)**

11.On the axes below, sketch displacement time graph for an accelerating body. **(1mark)**



12The figure shows a capillary tube dipped in water.



State **two** differences that will be observed when water is replaced with mercury in the set up above.

(2 marks)

13Water is known to boil at 100^0C. A student heated some water and noticed that it boiled at 101^0C.

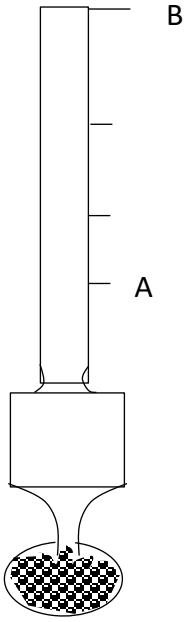
State two possible reasons for this observation. **(2 marks)**

SECTION B (55 marks)

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

15(a) State Archimedes' principle. **(1mark)**

(b) The figure shows a hydrometer.



(i) State the reason why lead shots are fixed at the bottom of hydrometer. **(1 mark)**

(ii) State the letter in the figure which represents a greater density. **(1 mark)**

(c) An ordinary hydrometer of mass 30g floats with 4cm of its stem out of the water. The area of the cross – section of the stem is 0.90 cm^2. Taking density of water= 1.0g/ cm^3.

Determine the:

(i) mass of the water displaced. **(1mark)**

(ii) Volume of water displaced. **(1mark)**

(iii) Volume of stem above water. **(2marks)**

(iv) Total volume of the hydrometer. **(2marks)**

(v) Length of stem above the surface when it floats in a liquid of relative density 1.5. **(2marks)**

(e) A balloon is filled with a gas which is lighter than air. It is observed to rise in air up to a certain height. State a reason why the balloon stops rising. **(1 mark)**

(f) The figure shows a bucket of water.

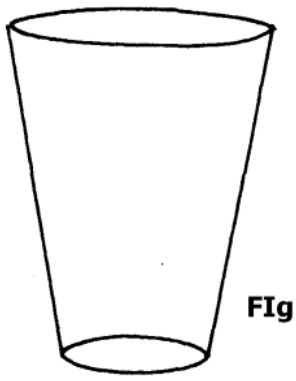


FIg 2

Explain why manufacturers prefer the shape shown above as a container for holding liquids such as water. **(2marks)**

16(a) The figure shows a block hanging at rest from a ceiling by a piece of rope.

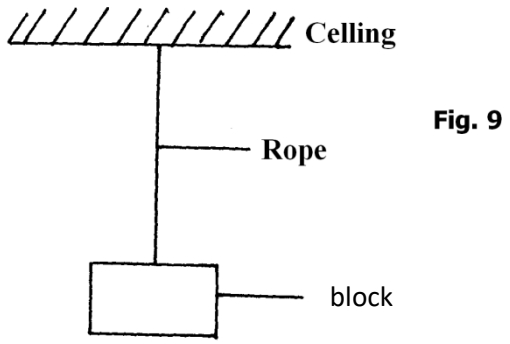


Fig. 9

Use the figure to answer question 16 (a) and (b)

(i) Both gravitational force and tensional force act on the system. State a reason for the presence of each force:

(I) Gravitational force. **(1mark)**

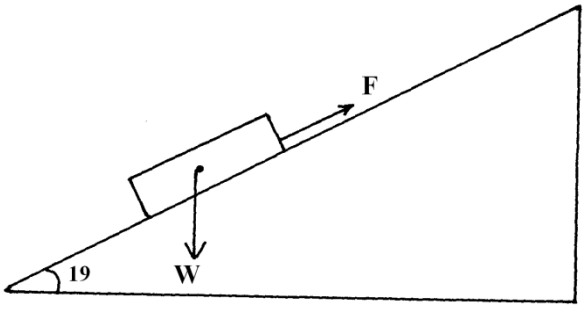
(II) Tensional force **(1mark)**

(ii)Air resistance and normal reaction are absent (do not act on the system). State a reason for each.

(I) Air resistance. **(1 mark)**

(II) Normal reaction **(1mark)**

(b) The figure shows a brick resting on an incline plane at an angle θ to the horizontal. The weight W and the frictional force, F_r are shown.



(i) On the same diagram show with an arrow one other force acting on the block and name the force.

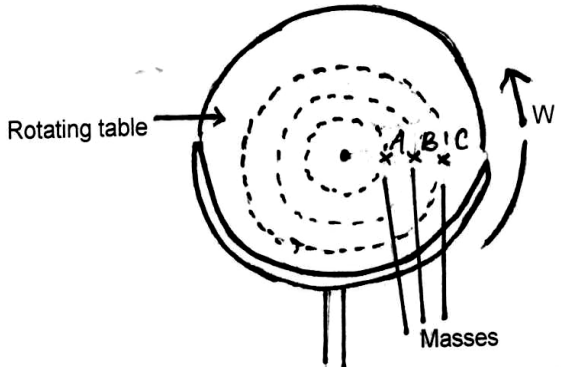
(1mark)

(ii) A runway for an airport is designed such that the lowest acceleration rate for the plane is $3m/s^2$. The take off speed for the plane is 65m/s. Determine the minimum length for the runway.

(2 marks)

(c) A motor cyclist wears a helmet lined on the inside with sponge. Explain how this minimizes injuries to the motorists head when involved in an accident. **(2 marks)**

17(a) The figure below shows masses A, B and C placed at different points on a rotating table.



The angular velocity ω, of the table can be varied.

(i) State **<u>two</u>** factors that determine whether a particular mass slides off the table or not. **(2marks)**

(ii) It is found that the masses slide off at angular velocities ω_A, ω_B and ω_C respectively. Arrange the values of ω_A, ω_B and ω_C in decreasing order. **(1mark)**

(b) A block of mass 200g is placed on a frictionless rotating table while fixed to the centre of the table by a thin thread. The distance from the centre of the table to the block is 15cm. If the maximum tension the thread can withstand is 5.6N, determine the maximum angular velocity the table can attain before the thread cuts. **(4marks)**

(c) State pressure law of an ideal gas. **(1 mark)**

(d) When the temperature of a gas in a closed container is raised, the pressure of the gas increases. Explain how the molecules of the gas cause the increase in pressure. **(2 marks)**

(e) State **one** assumption for the experiments carried out to verify the gas laws. **(1 mark)**

(f) A constant mass of hydrogen gas occupies a volume of 4.0 cm^3 at a pressure of $2.4 \times 10^5 Pa$ and temperature of 15^0C. Determine its volume at a pressure of $1.6 \times 10^5 Pa$ when the temperature is doubled. **(3 marks)**

18(a) State what is meant by specific latent heat of vaporization. **(1mark)**

(b) In an experiment to determine the specific latent heat of vaporization of water, steam at 100^0C was passed into water contained in a well lagged copper calorimeter.

The following measurements were made:-

Mass of calorimeter	=	50g
Initial mass of water	=	70g
Initial temperature of water	=	5^0C
Final mass of water + Calorimeter + condensed steam	=	123g
Final temperature of mixture	=	30^0C
Specific heat capacity of water	=	4200JKg^{-1}k^{-1}
Specific heat capacity of copper	=	390 JKg^{-1}k^{-1}

(i) Determine the:-

(I) Mass of condensed steam **(2marks)**

(II) Heat gained by water and calorimeter. **(2marks)**

(ii) Given that L is the specific latent of heat of vaporization of steam:

(I) Write an expression for the heat given out by steam. **(1mark)**

(II) Determine the value of L. **(2marks)**

(c) The figure shows two similar containers with equal amounts of methylated spirit at room temperature. A draught is blown over container A and their temperatures taken after sometime.

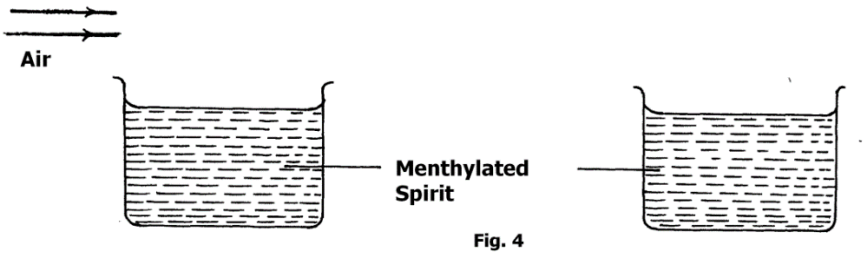


Fig. 4

State and explain one that will have a lower temperature. **(2marks)**

19(a) Two gear-wheels have 80 teeth and 20 teeth and they lock with each other. They are fastened on axles of equal diameter such that equal weight of 150N attached to the string around the axle will just raise 450N on the other axles.

Determine:

(i) the mechanical advantage. **(2marks)**

(ii) the velocity ratio. **(2marks)**

(iii) The efficiency of this machine. **(2marks)**

(b) State any **one** possible way of increasing velocity ratio of wheel and axle. **(1mark)**

(c) A Loudspeaker is a transducer. Explain. **(1mark)**

SOARING HIGH 2026 KCSE PREMOCK

KCSE SERIES 1 TRIAL

PHYSICS

232/2

PAPER 2

TIME: 2 HOURS

NAME……

SCHOOL…… **SIGN**……

INDEX NO…… **ADM NO**……

Instruction to Candidates

(a) *Write your name, index number in the spaces provided above.*
(b) *Sign and write the date of examination in the spaces provided above.*
(c) *This paper consists of* **two** *sections:* **A** *and* **B**.
(d) *Answer* **all** *the questions in sections* **A** *and* **B** *in the spaces provided.*
(e) ***All*** *working* **must** *be clearly shown.*
(f) *Silent non-programmable electronic calculators may be used.*

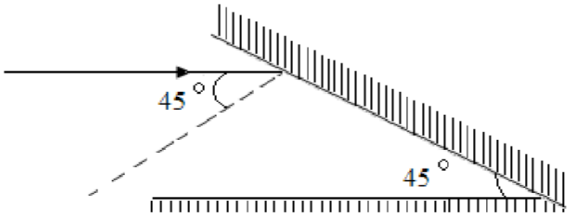
FOR EXAMINERS USE ONLY

Section	Question	Maximum Score	Candidate's Score
A	1 – 11	25	
B	12	12	
	13	12	
	14	12	
	15	9	
	16	10	
Total Score		80	

SECTION A 25 MARKS

Answer all the questions in the spaces provided.

The figure below shows a ray of light incident on a mirror at an angle of 45°. Another mirror is placed at an angle of 45° to the first one as shown. Sketch the path of the ray until it emerges.**2ks)**

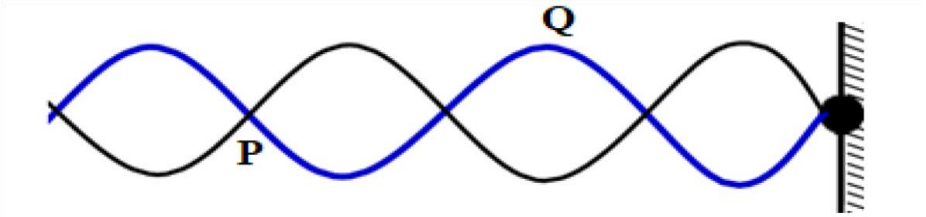


1. State any two ways of reducing the magnetic force of attraction of a magnet **(2 marks)**

……

……

2. The figure below shows a transverse stationary wave along a string.



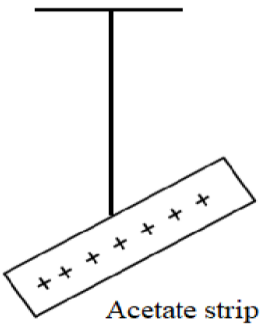
Name P and Q and explain how each is formed. (3 marks)

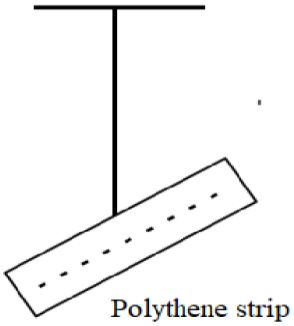
……

……

……

3. The diagrams below show a positively charged acetate strip and a negatively charged polythene strip freely suspended and isolated.



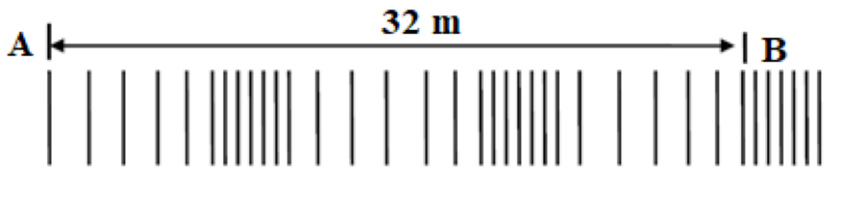


Two rods X and Y are brought up in turn to these strips. X attracts the acetate strip but repels the polythene strip. Rod Y does not repel either the acetate or the polythene. State the type of charge on each rod.

X ..... **(1 mark)**

Y ..... **(1 mark)**

5. The diagram below shows waves generated from a tuning fork. If the wave takes 0.1 second to move from point A to B. determine the frequency of the **wave.** **(4 marks)**



.....

.....

.....

.....

.....

6. Name two detectors of microwave **(2 marks)**

.....

.....

7. Other than current state two other factors that affect the magnitude of force on a current carrying conductor placed in a magnetic field. **(2 marks)**

.....

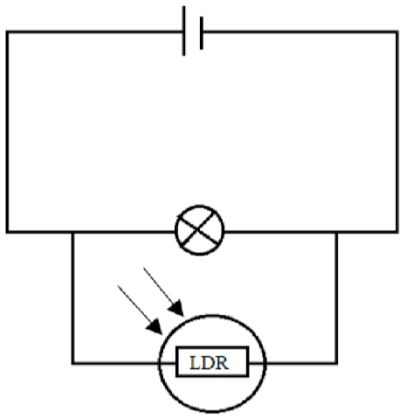
.....

8. Give a reason why a concave mirror is not preferred as a driving mirror**.** **(1 mark)**

.....

.....

9. A student connected the set up below in the laboratory. Explain the observation made on the bulb when the set-up below is taken to a dark **room** **(2 marks)**



……

……

……

10. A person standing 110 m from the foot of a cliff claps his hands and hears a sound 0.75 seconds later. Find the speed of sound in air**.** **(3 marks)**

……

……

……

……

……

11. The figure below is part of electromagnetic spectrum.

A		Visible light	UV	

Identify radiation A and state its source. **(2 marks)**

……

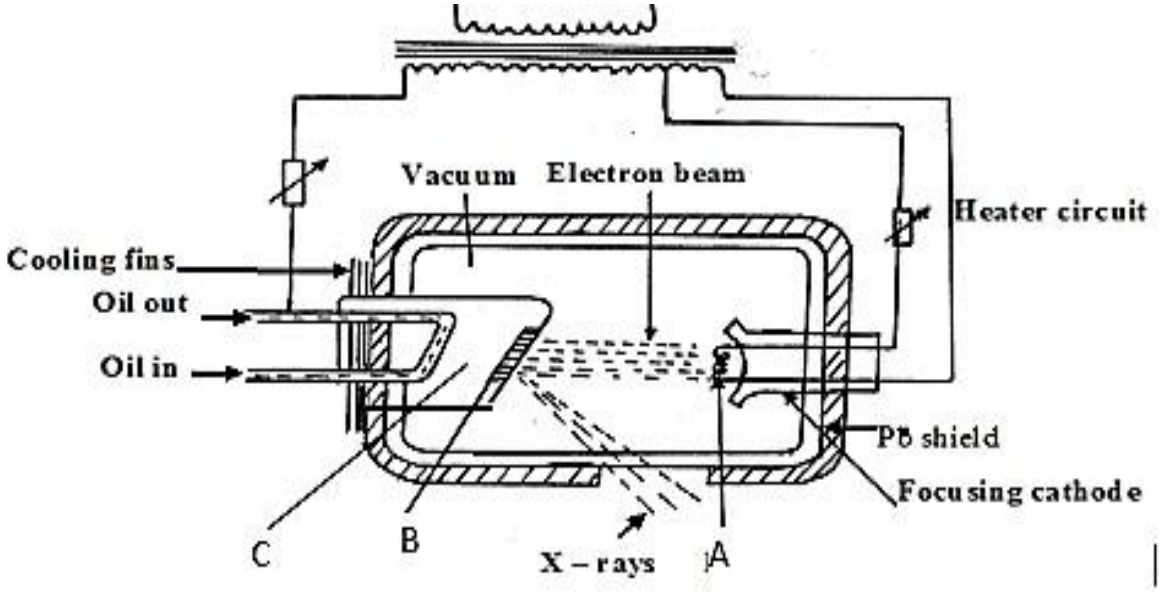
……

……

SECTION B 55 MARKS

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

12.(a) The figure below shows a X-ray tube.



(i) Name the part labelled C **(1 mark)**

……

(ii) State the property of the material labelled B on the diagram which makes it suitable for use in the X-ray tube. **(1 marks)**

……

……

(iii) Why is C inclined at an angle of 45^{o}? **(1 mark)**

……

……

(iv) State the adjustment that can be made to vary

I. The quality of X-rays **(1 mark)**

……

……

II. The quantity of the X-rays. (**1 mark)**

……

……

(v) An x-ray tube has an accelerating potential of 100KV. Determine the maximum frequency of the x-rays produced.

(Plank's constant = 6.63 × 10 $^{-34}$ Js, e = 1.6 × 10^{-19}C) **(3 marks)**

……

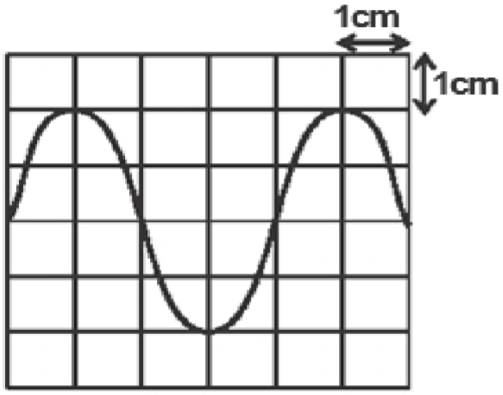
……

……

……

……

(b) In a CRO, waveform given below was displayed on the screen when the sensitivity at the Y plate was10V/cm and time base set at 20 milliseconds/cm.



Determine:

(i) peak voltage **(2 marks)**

……

……

……

(ii) frequency of the **signal** **(2 marks)**

……

……

……

13. a) 88226 Ra decays into 86222 Rn by emission of an alpha particle. Write a nuclear equation for the **decay** **(1 marks)**

b) i) What do you understand by the term half-life of a radioactive substance? **(1 mark)**

……

……

ii) A G.M tube registers 20 counts. When a radioactive source is brought close to it, it registers 3220 counts and 120 counts 30 hours later. What is the half-life of this substance**?** **(3 marks)**

……

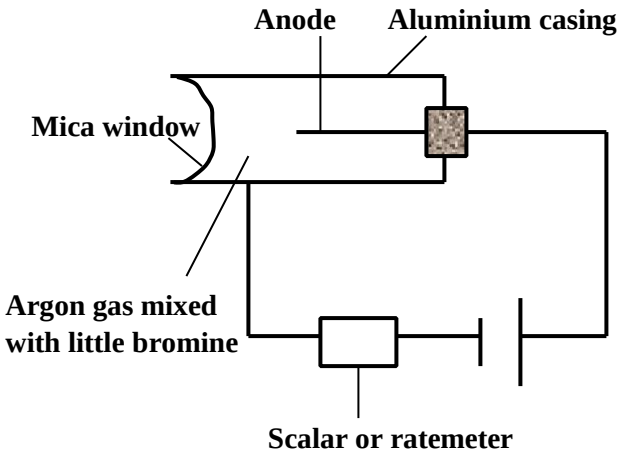
……

……

……

……

c) The figure below shows a G.M tube.



i) What is the purpose of the mica window? **(1 mark)**

……

……

ii) Explain the purpose of the bromine **(2 mark)**

……

……

……

iii) Why should argon gas be kept at low pressure **(1 mark)**

……

……

iv) What is meant by the term "*dead time"* as used in GM **tube** **(1 mark)**

……

……

v) Briefly explain how GM tube works. **(2 marks)**

……

……

……

14. (a) State the Ohm's Law **(1 mark)**

……

……

(b) You are provided a rheostat, 2 cells, a voltmeter, an ammeter, a switch and a fixed resistor.

i) Draw a circuit diagram that can be used to verify Ohm's law. **(2 marks)**

ii) Describe how the above set up can be used to determine Ohms **law.** **(4 marks)**

……

……

……

……

……

……

……

……

……

……

……

……

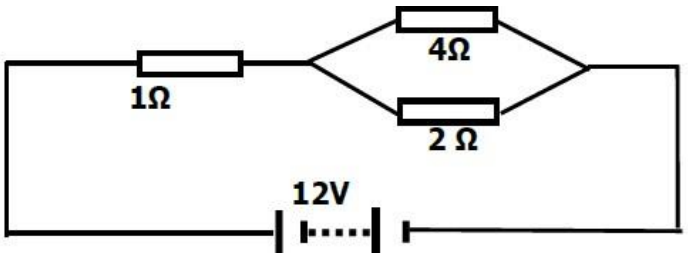
……

……

……

……

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



Calculate

(i) Determine the total resistance in the circuit. **(2 marks)**

……

……

……

(ii) The current through the 4Ω resistor **(3 marks)**

……

……

……

……

……

15. a) State Snell's **law** **(1 mark)**

……

……

b) A ray of light travelling from water to glass makes an angle of incident of 30^0. Find the angle of refraction in the glass. Refractive index of water = $\frac{4}{3}$. Refractive index of glass = $\frac{3}{2}$ **(3 marks)**

……

……

……

……

……

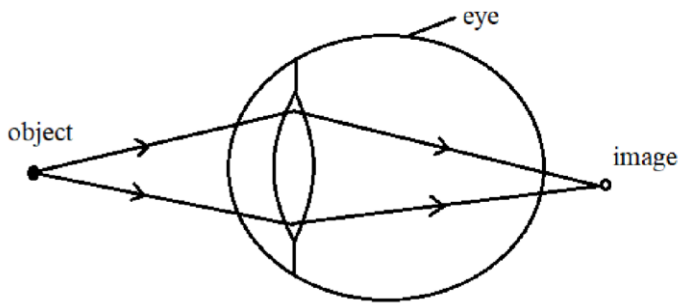
c) State the necessary and sufficient conditions for total internal reflection to occur. **(2 marks)**

……

……

……

d) The figure below shows a human eye defect.



(i) State one possible cause of this defect**.** **(1 mark)**

……

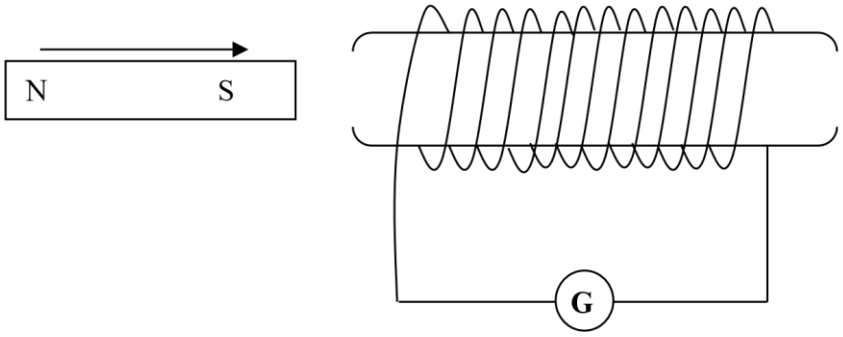
(ii) On the diagram, show how the defect is corrected. **(2 mark)**

16. (a) State the Lenz's law of electromagnetic induction. **(1 mark)**

……

……

(b) A bar magnet is moved into a coil of an insulated copper wire connected to a zero centre galvanometer as shown below



(i) Show on the figure above the direction of the induced current in the coil

(1 mark)

(ii) State and explain what is observed on the galvanometer when the south pole of the magnet is moved into and then withdrawn from the coil. **(2 marks)**

……

……

……

(c) A transformer has 800 turns in the primary and 40 turns in the secondary winding. The alternating voltage connected to the primary is 240V and current of 0.5.A. If 10% of the power is dissipated as heat within the transformer, determine the current in the secondary coil. **(3 marks)**

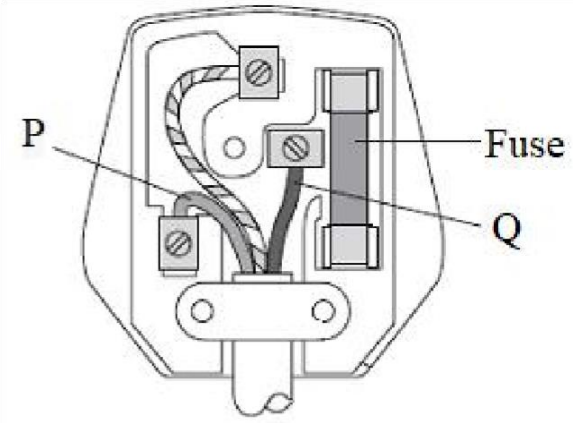
……

……

……

……

(d) The diagram below shows a three-pin plug.



(i) Name the colour of conductors P and Q **(2 marks)**

P……

Q……

(ii) Why is the earth pin longer than the rest in the three-pin plug shown above? **(1 mark)**

……

……

……

SOARING HIGH 2026 KCSE PREMOCK

KCSE SERIES 1 TRIAL

PHYSICS

232/3

PAPER 3

TIME: 2½ HOURS

SCHOOL…… SIGN……

CONFIDENTIAL

Each candidate is required to have the following:

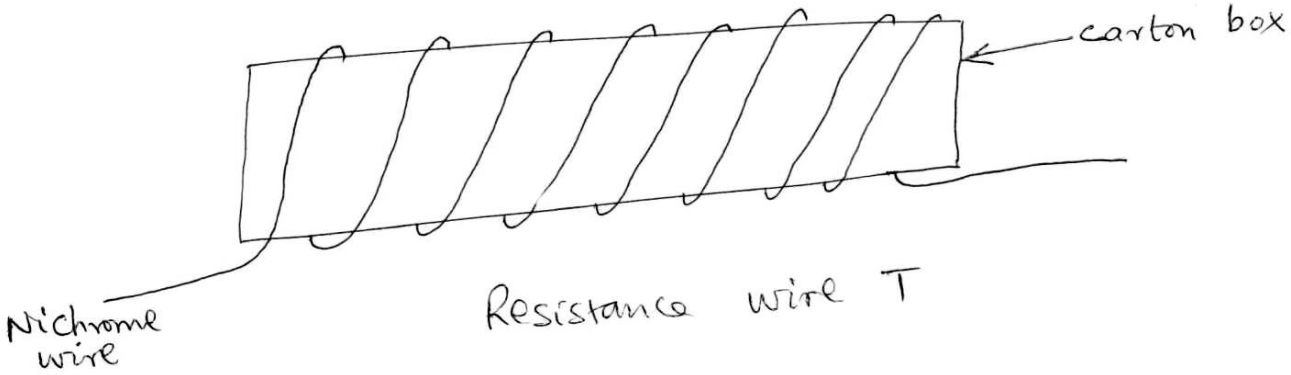
QUESTION 1

- A candle
- A white screen
- A lens and a convex lens holder. NB: Focal length = 20cm.
- A metre rule.
- A white screen with crosswire
- A Vernier Callipers.
- A 300g mass
- Two knife edges.
- Thread 15cm long

QUESTION 2

- A stop watch
- A 250ml glass beaker
- A thermometer (-10 to 110^0C)
- A tripod stand and wire gauze
- A measuring cylinder 100ml
- A source of heat
- Some water in a container about 500ml at room temperature
- A voltmeter (0 – 5V)
- Two new dry cells and cell holders
- Six connecting wires, each with a crocodile clip at one end.
- A switch.

- Tissue paper
- A resistance wire labelled R mounted on a metre rule.
  The physics teacher is required to mount a nichrome wire SWG 28 on a metre rule and label the wire R. The diameter of the wire is 0.36mm.
- A resistance wire labelled T.
  The Physics teacher is required to mount a nichrome wire SWG 28 on a small piece of carton box and label it T.
  The diameter of the wire is 0.36mm and its length is 60cm.



SOARING HIGH 2026 KCSE PREMOCK

KCSE SERIES 1 TRIAL

PHYSICS

232/3

PAPER 3

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

INSTRUCTIONS:

a) *Answer all the questions in this paper*

b) *You are supposed to spend the first 15 minutes of the* $2\frac{1}{2}$ *hours allowed for this paper reading the whole paper carefully before starting your work.*

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

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

e) *Mathematical table and electronic calculators may be used.*

f) ***The earth's gravitational pull,*** $g = 10Nkg^{-1}$

FOR EXAMINER'S USE ONLY:

QUESTION	TOTAL MARKS	CANDIDATE'S SCORE
1	**20**	
2	**20**	
GRAND TOTAL	**40**	

QUESTION 1

PART A

You are provided with the following:

1. Metre rule.
2. Vernier Callipers.
3. 300g mass
4. Two knife edges.
5. Thread

PROCEED AS FOLLOWS:

(a) Place the metre rule on the knife edges such that each is 5cm from the end. Ensure the mm scale is facing upwards. Set the distance between the knife edges, L= 900mm.

(b) Place the vernier callipers vertically against the metre rule at 50cm mark with the depth gauge lowered to touch the bench.

(i) Record the height h_o of the upper edge of the metre rule at the 50cm mark

h_o = _____cm _____mm **(1mark)**

(ii) Using the thread provided hang the 300g mass at 50cm mark of the metre rule ensuring it does not touch the bench. Measure and record the height h of the upper edge of the metre rule from the bench at the 50cm mark.

h = _____cm _____mm **(1mark)**

(iii) With the 300g mass hanging at the 50cm mark, adjust the position of the knife edges so that the distance L is 600mm with the knife edges equidistant from the 50cm mark i.e. at 20cm from each end.

Measure and record the height h of the upper edge of the metre rule at 50cm mark.

h = _____cm _____mm **(1mark)**

Table

Length L(mm)	900	600
Height h(mm)		
Depression, d = (h_o-h) (mm)		
Log L		
Log d		

(3marks)

(c) Determine the value of $s = \frac{log\ 900 - log 600}{log d_{900} - log\ d_{600}}$ **(2marks)**

(d) Evaluate $y = \frac{1}{s}$ **(1mark)**

(e) Given that $G = \frac{log\ K}{y}$ $where\ G = 2.75$, determine the value of K. **(1mark)**

PART B

You are provided with the following:

1. A white screen with crosswires

2. A Mounted lens

3. A White screen

4. A Candle

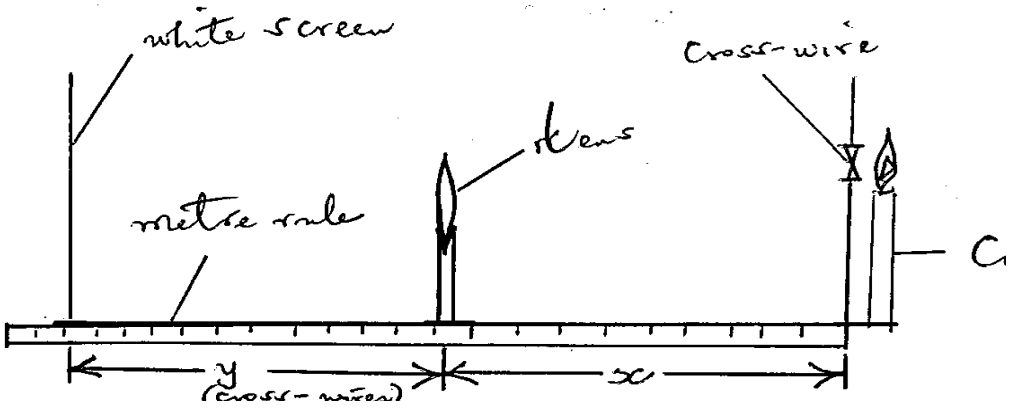
5. A Metre rule

PROCEED AS FOLLOWS:

(f) Estimate the focal length of the lens by focusing the image of a distant object on the screen provided e.g. distant window.

f_o = _____**cm** **(1mark)**

(g) Arrange the apparatus as shown.



With the object (cross-wires) illuminated using a candle flame placed at $x = 15cm$, move the screen until a sharp magnified image of the object is formed on the screen.

Measure and record the corresponding value of y in the table.

(h) Repeat step (g) for the value of $x = 18\ cm$

Table **(3 marks)**

$x\ (cm)$	15	18
$y\ (cm)$		
$\frac{x+y}{xy}$ (cm^{-1})		

(i) Determine the average of $\frac{x+y}{xy}$ **(2marks)**

(j) Compare the average $\frac{x+y}{xy}$ and $\frac{1}{fo}$ **(2marks)**

(k) Given that $\frac{1}{fo} = \frac{y}{(\frac{y}{x})+1}$ $and\ x = 25\ cm. Determine\ the\ value\ of\ y.$ **(2marks)**

QUESTION 2

PART A

You are provided with the following:

1. A voltmeter

2. A resistance wire labelled R mounted on a metre rule.

3. A metre rule.

4. A resistance wire labelled T mounted on a small piece of carton.

5. Two dry cells and a cell holder.

6. Six connecting wires, each with a crocodile clip at one end.

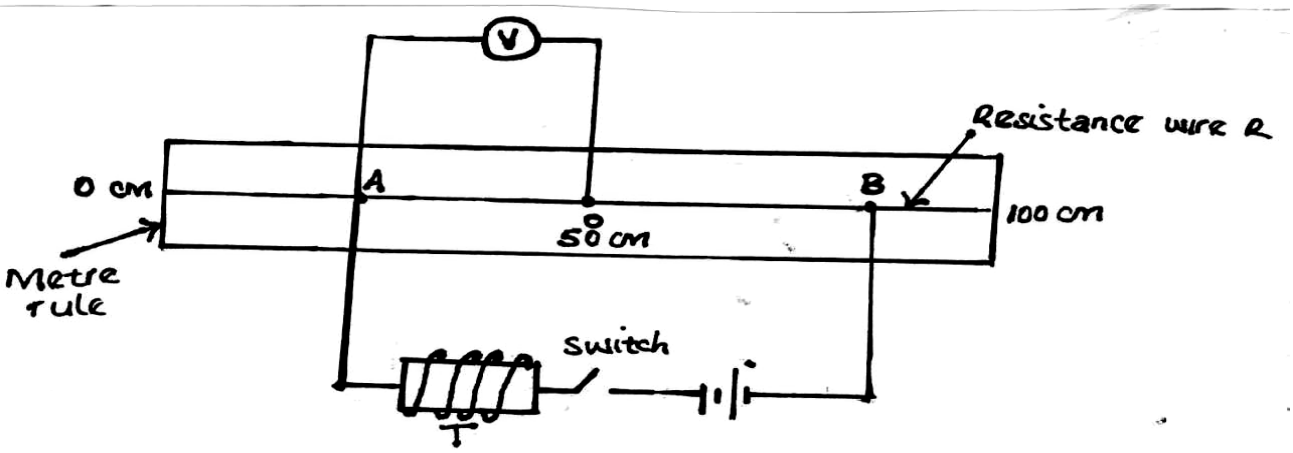
7. A switch.

PROCEED AS FOLLOWS:

a. Measure and record the e.m.f. E_0 of the cells connected in series, E_0 = ____ V.

(1mark)

b. Connect the circuit as shown below. Point O on the resistance wire R is at 50cm mark of the metre rule. A and B are points on resistance wire R such that AO = OB = x = 30cm.



(c) Close the switch. Read and record the potential difference V across AO

V = ……. Volts. **(1mark)**

(d) The relationship between V and x is given by:

$$\frac{1}{V} = \frac{35}{x} + \frac{1}{y}$$

Determine the value of y. **(2marks)**

(e) Use the e.m.f. E_0 to determine the constant k, given that:

$$k = \frac{8}{35E_0}$$ **(1mark)**

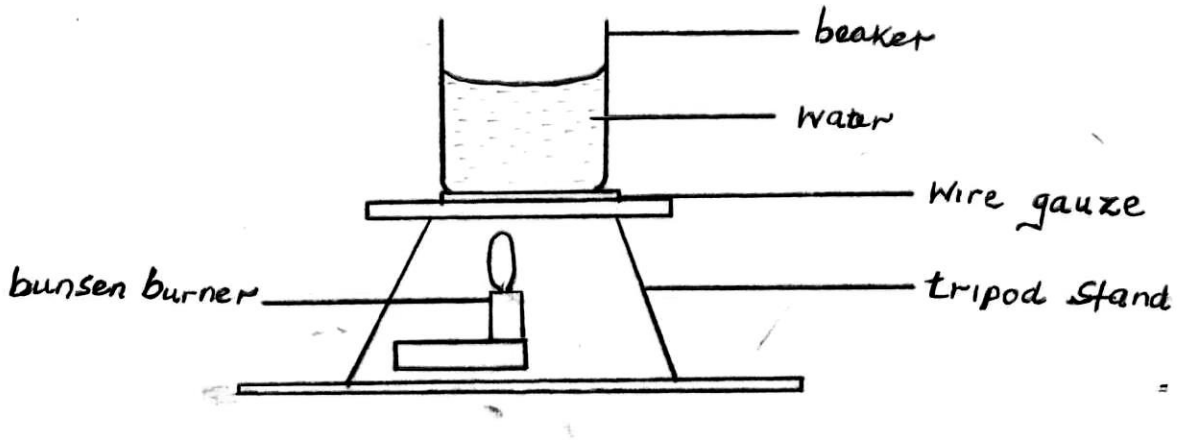
PART B

You are provided with the following:-

1. A glass beaker
2. A Bunsen burner
3. A Thermometer
4. A Stop watch
5. A Tripod stand and a Wire gauze
6. A measuring cylinder
7. Water in a container

Proceed as follows:

(f) Set the apparatus as shown in the figure.



(g) Measure 100cm^3 of water and pour it into the beaker. Take the initial temperature of the water.

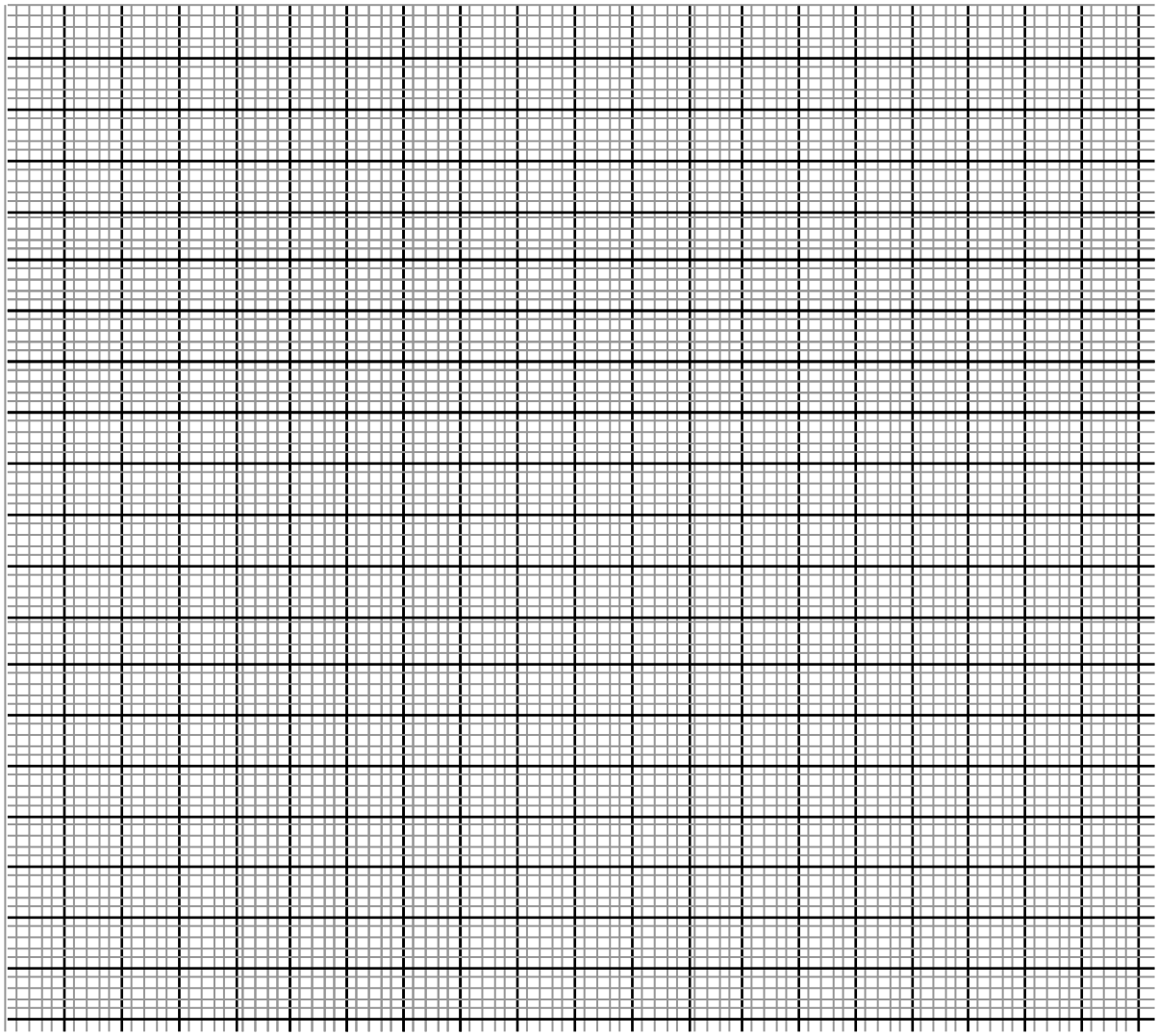
T_0 = ……^{0}C **(1mark)**

(h) Now heat the water to a temperature of 80^{0}C. Switch off the gas tap and place a thermometer into the beaker and start the stop watch when the temperature is 65^{0}C. Take the temperature T (^{0}C) of water after every two minutes. Record your results in the table

Table **(5marks)**

Time, t(min)	2	4	6	8	10	12	14
Temperature , T (^{0}C)							
(T - T_0) (^{0}C)							
Log (T - T_0)							

(i) Plot a graph of Log $(T - T_0)$ against Time (t). **(5marks)**



(j) Determine the value of P (log $(T - T_0)$) when t = 0. **(1mark)**

(k) Determine N, where N is the antilog of P. **(1mark)**

(l) Determine the temperature of the surrounding T_R using the expression $N = 65 - T_R$ **(2marks)**

SOARING HIGH 2026 KCSE PREMOCK

KCSE SERIES 1 TRIAL

MATHEMATICS

121/1

PAPER 1

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

INSTRUCTIONS TO DANDIDATES

1. *Write your name, index number and class.*
2. *The paper contains two sections: Section I and II*
3. *Answer ALL questions in section I and ONLY FIVE questions from section II.*
4. *All working and answers must be written on the question paper in the spaces provided below each question.*
5. *Marks may be awarded for correct working even if the answer is wrong.*

FOR EXAMINER'S USE ONLY

SECTION 1

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	TOTAL

GRAND TOTAL

SECTION II

17	18	19	20	21	22	23	24	25	TOTAL

1. Evaluate without using a calculator **(2 Marks)**

$$\frac{23.4 - 2(5.2 + 5.3)}{3.2 \; x \; 1.2}$$

2. In Blessed Church choir, the ratio of males to females is 2:3. On one Sunday service, ten male members were absent and six new female members joined the choir as guests for the day. If on this day the ratio of males to females was 1:3, how many regular members does the choir have?

(3 Marks)

3. A Kenyan bank buys and sells foreign currency as shown below.

	Buying	Selling
	Kenya shillings	Kenya shillings
1 Euro	84.15	84.26
1 US Dollar	80.12	80.43

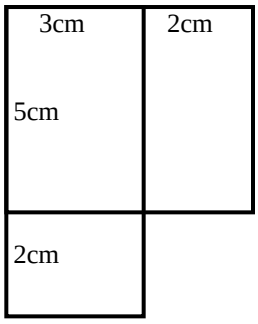
A tourist travelling from Britain arrives in Kenya with 5000 Euros. He converts all the Euros to Kenya shillings at the bank. While in Kenya he spends a total of KSh. 289,850 and then converts the remaining Kenya shillings to US dollars at the bank. Calculate (to nearest dollar) the amount he receives?

(3 Marks)

4. Simplify the expression. **(3 Marks)**

$$\frac{4x^2 - 16y^2}{6x^2 - 8xy - 8y^2}$$

5. Complete the figure below so as to make the net of a cuboid. Hence determine the surface area of the cuboid. **(4 Marks)**



6. The sum of the interior angles of a regular polygon is 1080^0. Calculate

(a) The number of sides of the polygon **(2 Marks)**

(b) The sizes of the exterior and interior angles of the polygon. **(2 Marks)**

7. If $3^{(2x)} - 4(3^x) + 3 = 0$. Find the possible values of x **(3 Marks)**

8. Three similar pieces of timber of length 240cm, 320cm and 380cm are cut into equal pieces. Find the largest possible area of a square which can be made from any of the three pieces**.(3 Marks)**

9. The sum of digits formed in a two digit number is 16. When the number is subtracted from the number formed by reversing the digits, the difference is 18. Find the number **(3 Marks)**

10. Solve for x given that **(3 Marks)**

$Log_{10}(x - 1) + 1 = Log_{10}(x - 4)$

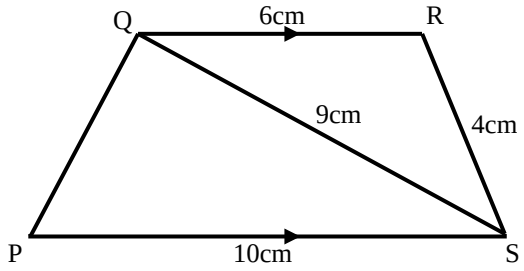
11. Three pens and four exercise books cost Sh. 87. Two pens and five exercise books cost Sh. 93. Find the cost of one pen and one exercise book. **(4 Marks)**

12. A farmer has enough feed to last 45 cows for 30 days. If he buys 5 more cows, how long will the feed last? **(2 Marks)**

13. Find the equation of the line perpendicular to $3x - 7y - 20 = 0$, and passes through the point (5,2) **(3 Marks)**

14. Wanza sold a bag of potatoes for Sh. 420 and made a profit. If she sold it at Sh. 320, she could have made a loss. Given that the profit is thrice the loss, how much did she pay for the bag of potatoes? **(3 Marks)**

15. In the figure below PQRS is a trapezium with QR parallel to PS. QR = 6cm, RS = 4cm, QS = 9cm and PS = 10cm.



Calculate

(a) The size of angle SQR **(2 Marks)**

(b) The area of triangle PQS **(2 Marks)**

16. Given that Cos $(x - 20)^0$ = Sin $(2x + 32)^0$ and x is an acute angle, Find tan $(x$ **– 4)^0 (3 Marks)**

SECTION II (50 MARKS)

Answer Only Five Questions In This Section

17. An expedition has 5 sections AB, BC, CD, DE and EA. B is 200m on a bearing of 050^0 from A. C is 500m from B. The bearing of B from C is 300^0. D is 400m on a bearing 230^0 from C. E is 250m on a bearing 025^0 from D.

(a) Sketch the route **(1 Mark)**

(b) Use the scale of 1cm to 50m to draw the accurate diagram representing the route. **(5 Marks)**

(c) Use your diagram to determine

(i) Distance in metres of A from E **(2 Marks)**

(ii) Bearing of E from A

18. A business lady bought 100 quails and 80 rabbits for Sh. 25,600. If she had bought twice as many rabbits and half as many quails she would have paid Sh. 7,400 less. She sold each quail at a profit of 10% and each rabbit at a profit of 20%.

(a) Form two equations to show how much she bought the quails and the rabbits **(2 Marks)**

(b) Find the cost of each **(3 Marks)**

(c) Calculate the profit she made from the sale of the 100 quails and 80 rabbits **(3 Marks)**

(d) What percentage profit did she make from the sale of the 100 quails and 80 rabbits**(2 Marks**

19. The table below shows the length of 40 seedlings.

Length in (mm)	Frequency
118-126	3
127 – 135	4
136 – 144	10
145 – 153	12
154 – 162	5
163 – 171	4
172-180	2

Determine

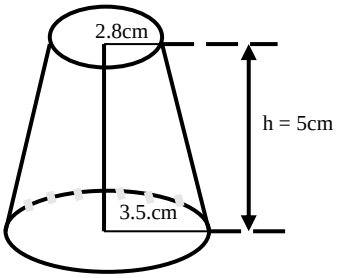
(a) (i) The modal class **(1 Mark)**

(ii) The median class **(2 Marks)**

(b) (i) The mean of the seedlings **(4 Marks)**

(ii) The median of the seedlings **(3 Marks)**

20. Find



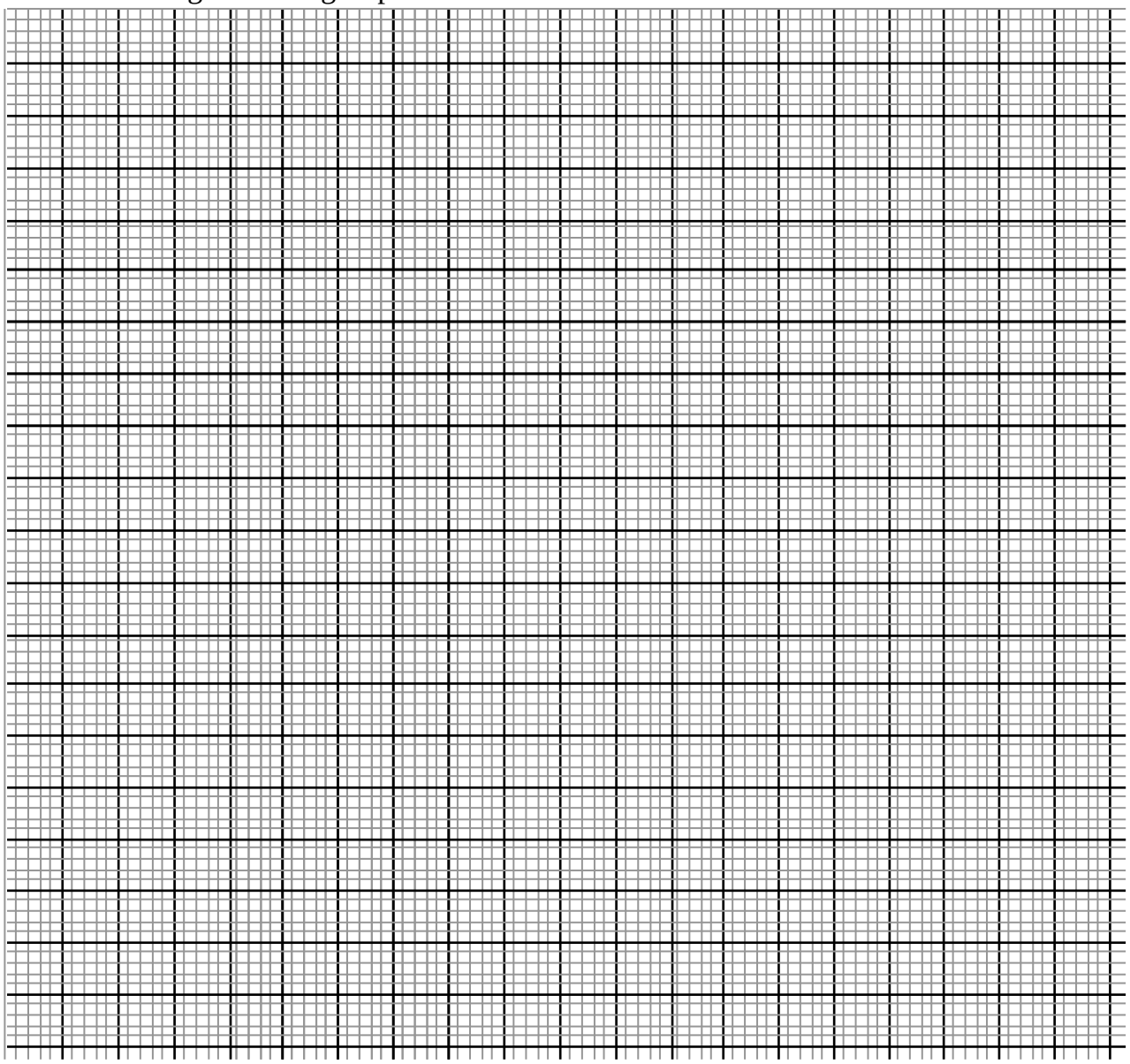
(a) The surface area of the frustrum **(5 Marks)**

(b) The volume of frustrum shown. **(5 Marks)**

21. Triangle ABC vertices A (-2, 6), B (2, 3) and C (-2, 3) is reflected in the line x = -3 to give the image

$A_1B_1C_1$. $A_1B_1C_1$ is translated by the vector $\begin{pmatrix}10\\2\end{pmatrix}$ to give image $A_2B_2C_2$. $A_3B_3C_3$ with coordinates A_3 (6,-6) B_3 (2,-3) and C_3 (6,-3) is the image of $A_2B_2C_2$ after transformation.

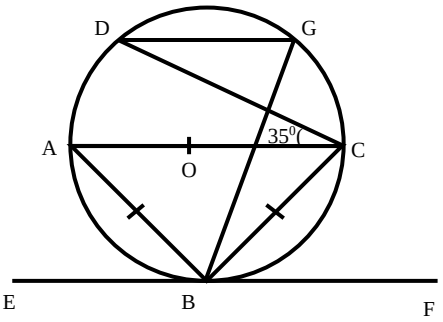
Plot all the triangles in the grid provided and determine



(i) The transformation that maps $A_2B_2C_2$onto A3B_3C_3 **(2 Marks)**

(ii) The simple transformation that maps ABC onto $A_3B_3C_3$ **(2 Marks)**

22. In the figure below AOC is a diameter of the circle centre O; AB = BC and $\angle ACD = 35^0$. EBF is a
tangent to the circle at B. G is a point on the minor arc CD.



Giving reason

(a) Calculate the size of

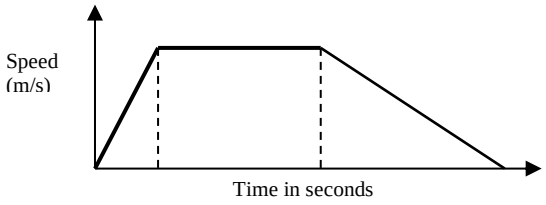
(i) $\angle BAD$ **(3 Marks)**

(ii) The obtuse $\angle BOD$ **(2 Marks)**

(iii) $\angle BGD$ **(2 Marks)**

(b) Show that $\angle ABE = \angle CBF$ **(3 Marks)**

23. The diagram below shows the speed-time graph for a bus travelling between two stations. The bus begins from rest and accelerates uniformly for 30 seconds. It then travels at a constant speed for 60
seconds and finally decelerates uniformly for 40 seconds.



Given that the distance between the two stations in 2090m. Calculate

(a) The maximum speed, in km/h the bus attained **(3 Marks)**

(b) The acceleration **(2 Marks)**

(c) The distance travelled during the last 20 seconds **(2 Marks)**

(d) The time the bus takes to travel the first half of the journey **(3 Marks)**

24. The members of a photograph club decided to buy a camera worth Shs. 4000 by each contributing the same amount of money. Fifteen member failed to pay their contribution due to various reasons. As a result each of the remaining members had to contribute Sh. 60 more.

(a) Find the number of members in the club **(7 Marks)**

(b) What was the percentage increase in the contribution per month? **(3 Marks)**

SOARING HIGH 2026 KCSE PREMOCK

KCSE SERIES 1 TRIAL

MATHEMATICS

121/2

PAPER 2

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

INSTRUCTIONS TO CANDIDATES

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

b) *This paper consists of **TWO** sections. Section I and Section II.*

c) *Answer **ALL** the questions in section I and only **FIVE** questions from Section II.*

d) *All answers and working must be written on the question paper in the spaces provided below each question.*

e) *Show all the steps in your calculations, giving your answers at each stage in the spaces below each question.*

f) *Marks may be given for correct working even if the answer is wrong.*

g) *Non-programmable silent calculators and KNEC mathematical tables may be used except where stated otherwise.*

FOR EXAMINER'S USE ONLY

SECTION I

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	TOTAL

SECTION II

17	18	19	20	21	22	23	24	TOTAL

GRAND TOTAL	

SECTION I (50 MARKS)

Answer ALL the questions in this section.

1. Use logarithms to evaluate:

$$\sqrt[3]{\frac{45.3 \times 0.00697}{0.534}}$$ **(4 marks)**

2. a) Expand $\left(1 - \frac{1}{2}x\right)^6$ to fourth term. **(2 marks)**

b) Use the expansion above to evaluate $(0.98)^6$ **(2 marks)**

3. The price of a new car is shs. 800,000. If it depreciates at a constant rate to shs. 550,000 within 4 years, find the annual rate of depreciation. **(3 marks)**

4. Object A of the area $10cm^2$ is mapped onto its image B of area $60cm^2$ by a transformation whose matrix is given by P = $\begin{pmatrix} x & 4 \\ 3 & x+3 \end{pmatrix}$. Find the positive values of x. **(3 marks)**

5. Without using a calculator or mathematical tables, express $\frac{\sqrt{3}}{1-Cos\ 30^0}$ in surd form and simplify. **(3 marks)**

6. The position vector of A and B are a = 4**i** + 4**j** – 6**k** and b = 10**i** + 4**j** + 12**k.** D is a point on AB such that AD:DB is 2:1. Find the co-ordinates of D. **(3 marks)**

7. A variable Z varies directly as the square of X and inversely as the square root of Y. Find percentage change in Z if X is increased by 20% and Y decreased by 19%. **(3 marks)**

8. Pipe A can fill a tank in 2 hours, Pipe B and C can empty the tank in 5 hours and 6 hours respectively. How long would it take:

a) To fill the tank if A and B are left open and C is closed. **(2 marks)**

b) To fill the tank with all pipes open. **(2 marks)**

9. Given that Sin $\left(\frac{2}{3}x + 20^0\right)$– Cos $\left(\frac{5}{6}x + 10^0\right)$ = 0. Without using a mathematical table or a calculator, determine tan$(x + 20^0)$. **(3 marks)**

10. Make P the subject of the formula $XY^P = Q^{PX}$ **(3 marks)**

11. The coordinates of the end points of diameter are A(2,4) B(−2,6). Find the equation of a circle in the form $ax^2 + by^2 + cx + dy + e = 0$ **(3 marks)**

12. A bag contains 10 balls of which 3 are red, 5 are white and 2 green. Another bag contains 12 balls of which 4 are red, 3 are white and 5 are green. A bag is chosen at random and a ball picked at random. Find the probability the ball so chosen is red. **(3 marks)**

13. The first, the second and sixth terms of an increasing arithmetic progression are the three consecutive terms of a geometric progression. If the first term of the arithmetic progression is 2, find:

a) Common difference of the arithmetic progression (**2 marks)**

b) Common ratio of the geometric progression. **(1 mark)**

14. Solve for x in the equation

$\frac{6x-4}{3} - \frac{2x-1}{2} = \frac{6-5x}{6}$ **(2 marks)**

15.The length and breadth of a rectangular floor garden were measured and found to be 4.1m and 2.2m respectively. Find the percentage error in its area. **(3 marks)**

16. Given that 4y = 3 Sin $\frac{2}{5}x$ for $0 \leq x \leq 360$. Determine:

a) Amplitude of the curve. **(1 mark)**

b) Period of the curve. **(2 marks)**

SECTION II (50 MARKS)

Answer any FIVE questions in this section.

17. Asteel manufacturing factory had a sample of 5 iron rods of various lengths. The lengths of the rods were measured and recorded in the table below:

Length (cm)	8-10	11-13	14-16	17-19	20-22	23-25	26-28
No. of rods	4	7	11	15	8	5	3

a) State the frequency of the modal class. **(1 mark)**

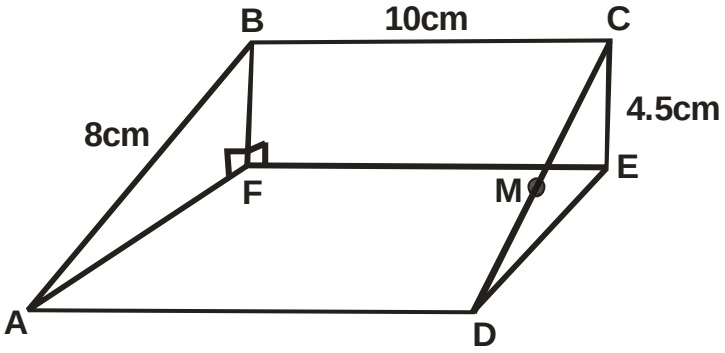
b) Using 18 as an assumed mean, calculate:

i) Actual mean **(5 marks)**

ii) Variance **(3 marks)**

iii) Standard deviation **(1 mark)**

18.



The above diagram represents a wooden prism. ABCD is a rectangle. Points E and F are directly below C and B respectively. M is the midpoint of CD. AB = 8cm, BC= 10cm and CE= 4.5cm.

a) The size of angle CDE. **(2 marks)**

b) Calculate:

i) Length of AC. **(2 marks)**

ii) The angle CAE makes with the plane ADEF. **(2 marks)**

c) Find the:

i) Length of MB. **(2 marks)**

ii) Angle CBM. **(2 marks)**

19. Anaeroplane flies from a point P(60^0N, 45^0W) to a point Q(60^0N, 135^0E). Given that the radius of the earth is 6370km,

a) Calculate the shortest distance between P and Q:

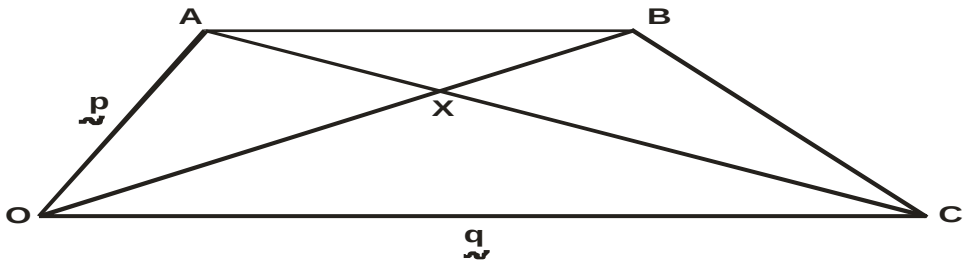
i) inkilometres (km) **(3 marks)**

ii) in nautical miles (nm) **(1 mark)**

b) If the plane flew at a speed of 600 knots, how long did it take to move from P to Q**.?(2 marks)**

c) The plane left P at 10.00a.m on Monday. At what time did it arrive at Q if it travelled along a parallel latitude at the same speed. **(4 marks)**

20. In the figure below OA = **p** and OC = **q**. Vector AB = $\frac{3}{4}$OC. Express in terms of unit vectors **p** and **q** the vectors.



a)

i) AC **(1 mark)**

ii) OB **(1 mark)**

iii) BC **(1 mark)**

b) Vector AC intersects with vector OB at X such that AX = tAC and OX = hOB. By expressing OX in two ways in terms of t and h,
Find:

i) Scalars t and h **(5marks)**

ii) the ratio OB: BX **(2 marks)**

21. Two fair dice one a regular tetrahedron (4 faces) and the other a cube are thrown. The scores are added together. Complete the table below to show all possible outcomes. (2 marks)

		CUBE					
		1	2	3	4	5	6
TETRAHEDRON	1						
	2						
	3						
	4						

a) Find the probability that:

i) The sum is 6. **(1 mark)**

ii) The sum is an odd number. **(1 mark)**

iii) The sum is 6 or 9. **(2 marks)**

b) If a player wins a game by throwing a sum of 6 or 9, draw a tree diagram and use it to find probability that he wins at least once when the dice are thrown twice. **(4 marks)**

22. The table below shows the income tax rates for a certain year.

Taxable pay per month Ksh	Tax rate
1 -9680	10%
9681 – 18800	15%
18801 – 27920	20%
27921 – 37040	25%
37040 – and above	30%

That year Mary paid net tax of Ksh.5,512 p.m. Her total monthly taxable allowances amounted to Ksh.15220 and he was entitled to a monthly relief of Ksh. 162. Every month the following deductions were made.

- NHIF – Ksh.320
- Union dues – Ksh.200
- Co-operative shares – Ksh.7500

a) Calculate Mary's monthly basic salary in Ksh. **(7 marks)**

b) Calculate her monthly net salary. **(3 marks)**

23.A number of people working at a factory decided to raise 72000 to buy a plot of land. Each person was to contribute the same amount. Before contributions five people retired from working at the factory and thus did not contribute. The same target of 72000 was still to be met by the remaining.

a) If n stands for the number of people working in the factory originally, show that the increase in the contribution per person was shs.$\frac{360000}{n\,(n-5)}$ **(3 marks)**

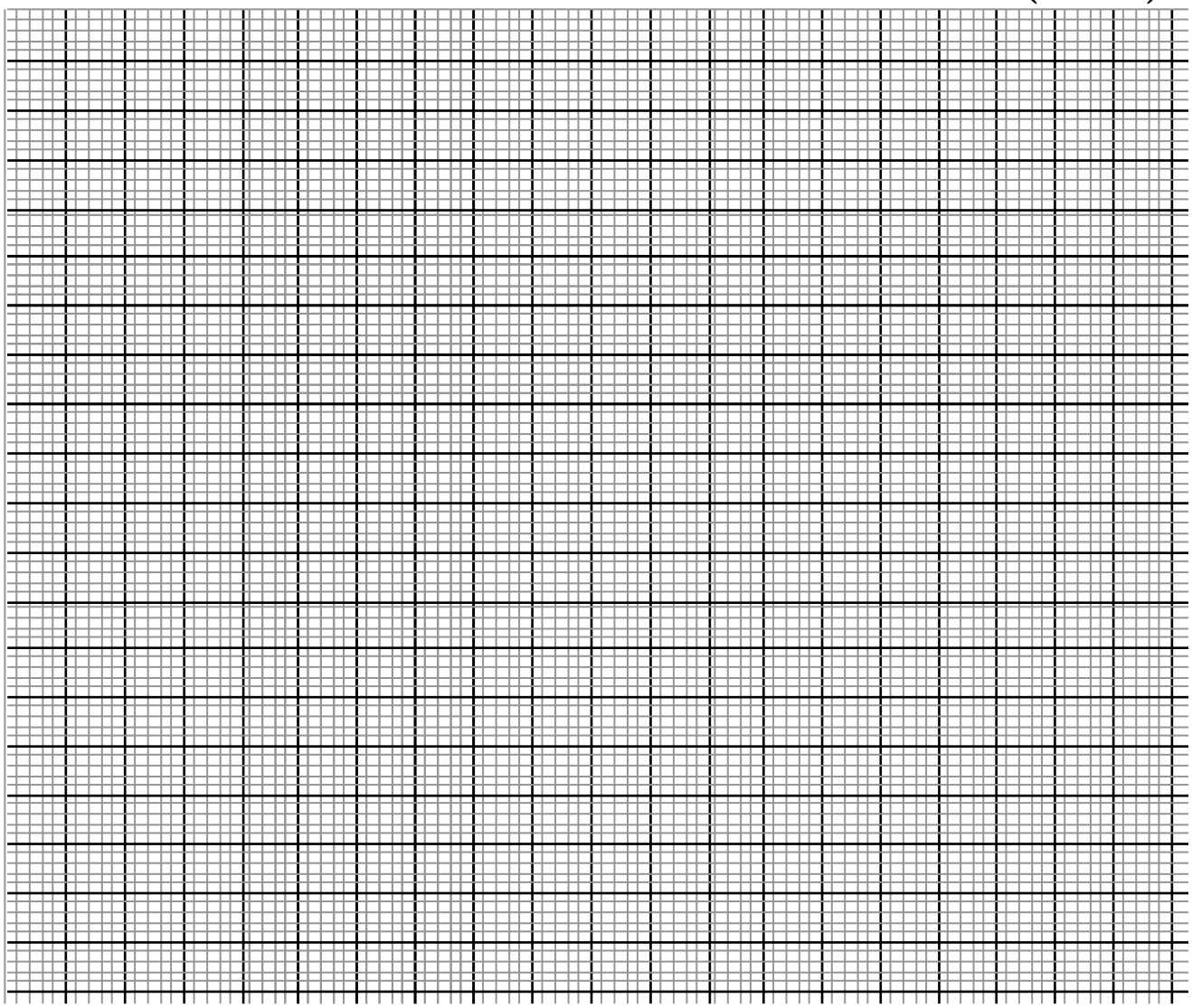
b) If the increase in contribution per person was sh.1200, find the number of people originally working at the factory. **(4 marks)**

c) Calculate the percentage increase in the contributions per person caused by retirement, giving your answer to one decimal place. **(3 marks)**

24.a) Complete the table below for the functions y = 3Sin x and y = 4Cos (2x - 10) (2 marks)

x	0	15	30	45	60	75	90	105	120	135	150	165
3Sin x	0	0.78						2.90			1.50	
4Cos (2x-10)	3.94		2.57			3.06				-0.69		3.06

b) Using a scale of 1cm to rep 1 unit on the vertical axis and 1cm to rep 150 on the horizontal axis, draw both curves on the same axes. **(5 marks)**



c) Use your curves to solve 3 Sin x – 4 Cos (2x -10) = 0 **(2 marks)**

d) State the phase angle of the curve y = 4 Cos (2x -10) **(1 mark)**

SOARING HIGH 2026 KCSE PREMOCK

KCSE SERIES 1 TRIAL

COMPUTER STUDIES

451/1

PAPER 1

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

INSTRUCTION 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 **ALL** questions in section **A***
d) *Answer question16 and any other **THREE** questions from section **B***
e) *All answers should be written in the spaces provided on the question paper*

FOR EXAMINER'S USE ONLY

SECTION	QUSTIONS	CANDIDATE'S SCORE
A	1 -15	
B	16	
	17	
	18	
	19	
	20	
	TOTAL SCORE	

SECTION A (40 MARKS)

Answer ALL the questions in SECTION

1. Mention two devices that can connected to the computer via HDMI cable **(2marks)**

……

……

2. State three ways in which ICT can be used to enhance customer service delivery in a supermarket

(**3marks**)

……

……

……

3. Describe two roles of a Web designer **(2 marks)**

……

……

……

4. Mr. Kamau is a teacher at Chianda High School used Ms-Excel to process the marks obtained by his student during the term. The table below shows the details entered in the Ms-Excel worksheet

	A	B	C	D	E	F	G	H	I
1	**Name**	**CAT1**	**CAT 2**	**CAT TOTAL**	**EXAM**	**TOTAL MAR**	**POSITI O**	**GRADE**	**REMARK**
2	**Mark Jama**	**14**	**06**	**20**	**56**	76	**1**		
3	**Caleb Wekeza**	**13**	**08**	**21**	**34**	**55**	**6**		
4	**Kanini Mulue**	**10**	**04**	**14**	**59**	**73**	**3**		
5	**Justine Melanie**	**11**	**07**	**18**	**57**	**75**	**2**		
6	**Julia Wahome**	**06**	**09**	**15**	**48**	**63**	**5**		
7	**Austin Kilome**	**08**	**07**	**15**	**50**	**65**	**4**		

Hints

CAT1is out 15, CAT2 is out 15 and Exam is out 70

(a) Give the formula used to calculate the Total Marks for Julia Wahome **(1mark)**

……

……

(b) Write a function that give each student his position in class based on the performance **(2marks)**

……

……

……

(c) Write a logical function that will display the following remarks in column I **(2marks)**

Total Marks	**Remark**
0 - 49	**Fail**
50 - 59	**Above Average**
60 - 69	**Fair**
70 - 79	**Good**
80 - 100	**Excellent**

5. Give two reasons to justify why SATA cables are used in modern computers to connect the hard disk to the motherboard **(2marks)**

……

……

……

6. Give three file systems supported by windows operating system **(3marks)**

……

……

……

……

7. Describe the use of the following keys found on a standard keyboard **(2marks)**

(a) Esc

……

……

(b) Prt sc

……

……

8. Explain the following terms with references to algorithm

(a) Definiteness **(2marks)**

……

……

……

(b) Finiteness **(2marks)**

……

……

……

9. Mention two ICT related courses offered in Kenyan universities at undergraduate level **(2marks)**

……

……

……

10. What is flaming **(2marks)**

……

……

……

11. A computer operator was working with a computer using windows operating system. After sometimes he started experiencing the following problems

- Abnormal restarting

- Computer failing to load the operating system
- Computer hangs
- Computer displaying Fatal Exception error on the screen

State three possible causes of the problems mentioned above **(3marks)**

……

……

……

12. Identify two limitations of traditional approach to system development **(2marks)**

……

……

13. Use flowchart to demonstrate how IF THEN and REPEAT..... UNTIL can be implemented **(2marks)**

……

……

……

……

……

……

14. State three functions of Repeater stations in data communication **(3marks)**

……

……

……

15. Describe three layout guides available in DTP that assist a user to place an object in a preferred position **(3 marks)**

……

……

……

……

SECTION B (60 MARKS)

16.

(a) State three features of a compiler **(3marks)**

.....

.....

.....

(b) When writing a computer program programmers are always advised to use approaches and techniques that makes the program easy to follow and maintain. List four ways in which a programmer can make program code easy to follow **(4marks)**

.....

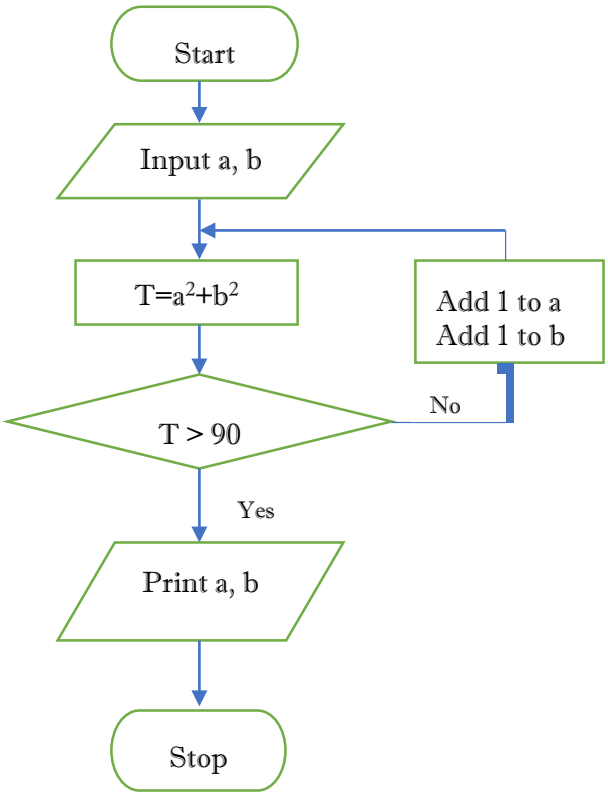
.....

.....

.....

.....

(c) Study the flowchart below and use it to answer the questions that follow



(i) Given that the user keyed in 3 as the value of a and 1 as the value of b get the final output of the flowchart **(3marks)**

.....

.....

.....

.....

.....

.....

(ii) Use a pseudo code to represent the flowchart in (c) **(5marks)**

17.

(b) Briefly describe the three main coding schemes **(3marks)**

……

……

……

……

(c) Convert the following numbers to binary number

(i) B2.AAH **(3marks)**

……

……

……

……

(ii) $\frac{13}{64}$ base 10 **(3marks)**

……

……

……

(d) The table below was created using Ms-Access use it to answer the questions that follow

Table Name: Product

Product ID	Product Name	Unit Cost	Quantity	Total
P00101	Milk	120	34	4080
P00201	Bread	100	56	5600
P00301	Beans	150	45	6750

(i) State the most appropriate data type for Product ID and Total **(2marks)**

……

……

……

(ii) Suggest how you would set the input mask for the Product Name so that the data entered in that field appear the way they are in the table **(2marks)**

……

……

……

(iii) Represent the dynaset shown below in a SQL form given that the table Name is product **(2marks)**

Product ID	Product Name	Unit Cost	Quantity	Total
P00101	Milk	120	34	4080

……

……

……

18.

(a) Describe four services available in the internet that support communication only **(4marks)**

……

……

……

……

……

……

(b) Modern computing have embraced the use of drop box, google drive and OneDrive. These platforms are hosted by the internet and many computer users prefer backing up their data using these facilities. Give three reasons to justify this phenomenon **(3marks)**

……

……

……

……

……

(c) Janetitle a computer student from Maranda High school launched the browser to access the internet , the browser displayed an error message Server Not Found on the screen this didn't allow Janetitle to access the internet. State three possible causes of this anomaly **(3marks)**

……

……

……

……

……

(d) Briefly describe the following features of word processor **(2marks)**

(i) Subscript

……

……

……

(ii) Drop cap

……

……

……

(e) State two arithmetic operation that can be performed on a row of a numeric data in a word processor table **(1mak)**

……

……

(f) In each case of (e) above give the expression used **(2marks)**

……

……

……

19.

(a) Enumerate four breakthrough in health care instigated by ICT **(4marks)**

……

……

……

……

……

(b) Mention four application areas of Artificial Intelligence **(3marks)**

……

……

……

……

(c) List three scanning devices available at Electronic Point Sale Terminal **(3marks)**

……

……

……

(d) Describe two ways of preventing eavesdropping **(2marks)**

……

……

……

(e) System failure is considered as threat to data security. Describe three measures an organization should put in place to guard against system failure **(3marks)**

……

……

……

……

20.

(a) Identify modes of data communication represented in (i), (ii), (iii) and (iv) below **(4marks)**

(i) Principal Addressing students in assembly using public address system

_____

_

(ii) WhatsApp chat

_____

_

(iii) Phone conversation

_____

_

(iv) Walkie talkie conversation

_____

_

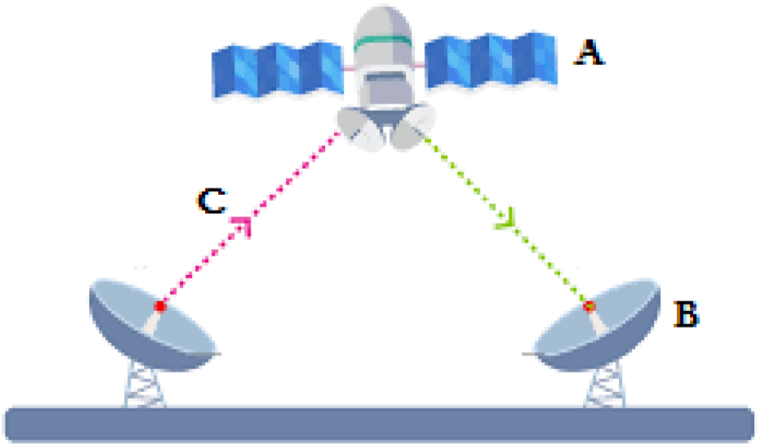
(b) List three challenges experienced by computer networks that are set up using twisted pair cables **(3marks)**

……

……

……

(c) Study the diagram below and use it to answer the questions that follow



(i) Identify the parts labelled A, B and C in the diagram above **(3marks)**

……

……

……

(ii) State function of the part labelled A **(2marks)**

……

……

……

(d) Name any three components of virtual reality **(3marks)**

……

……

……

SOARING HIGH 2026 KCSE PREMOCK

KCSE SERIES 1 TRIAL

COMPUTER STUDIES

451/2

PAPER 2

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

INSTRUCTIONS TO CANDIDATES

a) *Indicate your name and index number at the right hand corner of each printout*
b) *Write your name and index number on the CD/removable storage medium provided*
c) *Write the name and version of the software used for each question attempted in the answer sheet provided*
d) *Answer all the questions, All questions carry equal marks*
e) *Passwords should not be used while saving in the CD/removable storage Medium*
f) *Marked printout of the answers on the sheet*
g) *Hand in all the printouts and the CD/removable storage medium used*

1. *The table below shows list of students admitted to Nyambaria High School under different sponsors.*

(a) *Open a database program and create a database named* ***NHS.****(1mark)*

(b) *Create three tables named* ***Students****,* ***Sponsor*** *and* ***Fees.*** *(3 marks)*

(c) *Using database* file created in (a) above use the following field properties.
(6marks)

Student_Table

Field name	Data types and properties
School-Code	Default value = 427
AdmNo	Text (Size = 4, Required = Yes)
Student Name	Text (Size = 16)
Date of Birth	Date and time (Size = 10)
Amount paid	Text (Size = 4, Required = Yes)
SponsorID	LookUp -sponsor table
BankID	Text

Sponsor_Table

Field name	Data types and properties
SponsorID	Text (Size = 4, Required = Yes)
Sponsor Name	Text (Size = 16)

Amount_Table

Field name	Data types and properties
BankID	Text
BankName	Text (Size = 10)
Amount Per Student	Number (Size = 8, Decimal Place = 2)
Mode of payment	Text (Size = 12)

(i) Create the relationship between the tables. (2marks)

(ii) Enforce referential integrity between the tables. (1mark)

(iii)Create the three forms **StudentForm, SponsorForm** and **AmountForm**.

(3marks)

(iv)Enter the following data in their respective tables using the respective **forms**.

(8 marks)

Table 1: SponsorTable

SponsorID	Sponsor Name
S1	Wings
S2	Majani
S3	Elimu

Table 2: StudentTable

Sch-Code	AdmNo	SponsorID	StudName	BankID	DateOfBirth
427	444	S1	Lilian Mwende	100	12/03/2000
427	443	S3	Ruth Akinyi	200	23/01/1998
427	445	S2	Frida Omondi	100	11/07/2002
427	442	S1	Bianca Godana	300	12/05/2005
427	410	S3	Christine Awuor	300	28/05/1999
427	413	S2	Baraka kalala	200	30/09/1998
427	449	S1	Rael Mokaya	100	18/02/2005
427	411	S3	Slivia Odanga	100	17/04/2001
427	412	S2	Jane Kawaswa	200	19/06/2004
427	415	S2	Jack Jake	100	22/03/2003

Table 3: AmountTable

BankID	BankName	Amount Per Student	Mode of payment
100	COOP	**550,000**	EFT
200	KCB	**120,000**	M-banking
300	EQUITY	**420,000**	Cheque

(d) Create a query to display the fields:

(i) AdmNo, Sponsor name, age and Students whose first name start with letter **"B"** and whose payment Bank is **"COOP"** Save query as **B-query**.

(5marks)

(ii) StdName, Sponsor name, Mode of payment and Amount per student. Calculate the total amount received. Save query as **AMount-query**.

(5marks)

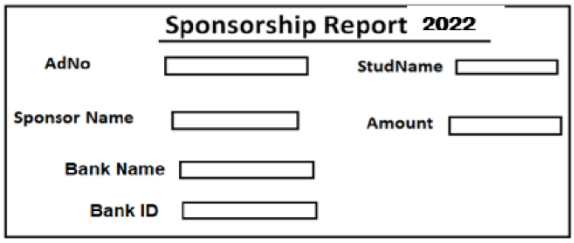
(iii)Create **Amountreport** from A**mount query** display all the records grouped by mode of payment and find the average per mode of payment

(4 marks)

(d) Create a bar chart to display students and their respective amount received. Save chart as S-**chart.** (2 marks)

(e) Create **S-report** to display the fields as it appears in the figure below.

(5marks)



(f) Print the following: (4 marks)

(i) The Student table

(ii) The B- query

(iii)The chart

(iv)The S-report

2. The following data was extracted from Applicants' file for Maranda high school comp/Maths teacher recruitment

(a) (i) Enter the data as it appears in a spreadsheet. And save it as **INTERVIEW**

(13mks)

	A	B	C	D	E	F	G	H	I
1	NAME	ADDRESS	TOWN	comp	Math	Eng	MEAN	APPLICANT POSITIO	REMARK
2	Willington	400	Nairobi	40	60	60			
3	Benjamin	3201	Kisumu	55	50	40			
4	Nyambane T.	5600	Kisii	70	60	50			
5	Grace	1236	Bungoma	30	80	70			
6	Rebbeca	48	Eldoret	75	70	80			
7	Fatuma A	6032	Mombasa	40	30	50			
8	Kamau J.	8021	Nyeri	50	40	55			
9	Achieng .	209	Siaya	80	50	70			

(ii) Insert two blank rows at the top of the worksheet. (1 mark)

(iii)Enter the following title and subtitle in the blank rows respectively; MARANDA HIGH SCHOOL RECUIRTMENT FILE and APPLICANTS DETAILS.

(3marks)

(iv)Centre the title and subtitle across the columns that contain data.

(2marks) (b) Using functions, compute:

(i) The mean for each Applicant and format it to 2 decimal places. (3marks)

(ii) The position of each Applicant. (3marks)

(iv) The highest and lowest score for Benjamin, enter the answers in L3 and M3 respectively (3marks)

(c) The school wishes to analyze the applicants' data in order to find those applicants who qualify for recruitment. Successful candidates MUST meet the following minimum requirements;

i. Must have scored a mean of 40 marks and above;

ii. Must have scored 60 marks and above in Computer;

iii. Must have scored 50 marks and above in either Mathematics or English. Use the above criteria to remark If the applicants qualifies, the function should display

'Successful'. Otherwise it should display 'Unsuccessful'.

(5marks)

(d) Using a function find the number of applicants who are successful.

(2marks)

(e) Copy the entire worksheet to sheet 2 and rename it as Successful Applicants.

(2marks)

(f) Filter the 'Successful Applicants' sheet to display the records of those applicants who are successful. (2marks)

(g) In a new worksheet Create a bar chart to compare the performance of mathematics and computer for all applicants (4marks)

(i) Insert SUBJECT **PERFORMANCE** as the heading of the chart (2 mark)

(ii) Assign the appropriate LEGENDS to the chart (1 mars)

(v) Name the axis appropriately (2 marks)

(h) Print: (2 marks)

I. **INTERVIEW**;

II. Successful Applicants Sheet;

SOARING HIGH 2026 KCSE PREMOCK

KCSE SERIES 1 TRIAL

HOME-SCIENCE

441/1

PAPER 1

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

441/1

HOME-SCIENCE

PAPER 1

THEORY

INSTRUCTIONS TO CANDIDATES

(a) *Write your name, school and index number in the spaces provided above.*
(b) *Sign and write the date of the examination in the spaces provided above.*
(c) *This paper consists of* ***three*** *sections* ***A***, ***B*** *and* ***C****.*
(d) ***All*** *the questions in Section* ***A*** *and* ***B*** *are compulsory.*
(e) *Answer any other* ***two*** *questions in section* ***C****.*
(f) *Answers to all the questions must be written in the spaces provided.*

FOR OFFICIAL USE ONLY

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1 – 20	40	
B	21	20	
C		20	
		20	
TOTAL SCORE		100	

SECTION A : 40 MARKS

Answer all the questions in the spaces provided.

1. What are cosmetics? **(½ mark)**

……

……

2. State **two** ways of preventing bites and stings in the home. **(1 mark)**

……

……

……

3. State **two** points to consider when cleaning oil painted walls. **(1 mark)**

……

……

4. What is buffing? **(½ mark)**

……

……

……

5. Classify the following small kitchen equipment. **(1 ½ marks)**

(a) Pie dish

……

(b) Ice scoops

……

(c) Saucepot

……

6. Mention **two** disadvantages of cooking food by frying. **(2 marks)**

……

……

……

7. Give **two** examples of regenerated fibres. **(1 mark)**

……

……

8. State **two** points to consider when buying sewing threads. **(1 mark)**

……

……

9. State **two** causes of looped stitches when machining. **(1 mark)**

……

……

10. State **two** reasons for using trimmings during clothing construction. **(1 mark)**

……

……

11. State **three** reasons for using tucks on children's clothes. **(1 ½ marks)**

……

……

……

12. Name **three** kinds of equipment used for holding dirty clothes before laundering. **(1 ½ marks)**

……

……

……

13. State **two** properties of wool that should be considered when laundering woolen articles.

(1 mark)

……

……

……

14. French seam is not suitable for making pyjamas and knickers, why? **(½ mrk)**

……

……

15. Name **three** nutritional disorders associated with lifestyle. **(1 ½ marks)**

……

……

……

16. What is incomplete or second class proteins? **(½ marks)**

……

……

17. Name **two** types of buttonholes. **(1 mark)**

……

……

18. Distinguish between raglan and kimono sleeve. **(1 mark)**

……

……

19. Name the **two** types of pockets. **(1 mark)**

……

……

20. Mention **three** types of play in child development. **(1 ½ marks)**

……

……

……

21. State **three** flavouring essences used in cake-making. **(1 ½ marks)**

……

……

……

22. Name **one** immunizable diseases that can cause disfigurement. **(½ mark)**

……

23. What is insomnia? **(½ mark)**

……

……

24. Identify **one** area in a garment where faced slit opening is applied. **(½ mark)**

……

25. State **two** factors that influence consumer buying. **(1 mark)**

……

……

26. Define the following terms as used in clothing construction process. **(2 marks)**

(a) Overlay

……

……

(b) Layering

……

……

(c)Gusset

……

……

(d) Cuff

……

……

27. State two qualities of a good hem. **(1 mark)**

……

……

28. A stable state of mind of a lactating mother is important for milk production; identify two situations when the mother produces little or no milk at all. **(1 mark)**

……

……

29. Give **one** main disadvantage of using sodium bicarbonate in flour mixtures. **(½ mark)**

……

30. State **one** common cause of badly risen loaf with close texture. **(½ mark)**

……

31. Identify **two** ways of ventilating a house mechanically. **(1 mark)**

……

……

32. Name **two** areas in the house where light fixtures can be found. **(1 mark)**

……

……

33. State **two** disadvantages of using left-over food. **(2 marks)**

……

……

34. Identify the type/shape of flower arrangement suitable for placing on an invalid tray. **(½ mark)**

……

35. Define double complementary colour scheme and give an example. **(1 mark)**

……

……

36. State **two** factors to consider when setting a the table. **(2 marks**

……

……

……

37. Name **two** common methods used to insert a zip fastener. **(1 mark)**

……

……

38. State **two** factors that influence the efficiency of a detergent. **(1 mark)**

……

……

SECTION B: 20 MARKS (COMPULSORY)

39. You are expecting guests. Describe how to;

(a)Launder a polyester shirt with chewing, gum stain. **(11 marks)**

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

……

(b) Thorough clean a glass window with a metal frame. **(9 marks)**

……

……

……

……

……

……

……

……

……

……

……

……

……

……

SECTION C (40 MARKS)

Answer any two questions in this section.

40. (a) Plastic is one of the commonly used materials to make kitchen equipment. Discuss plastic under the following headings:-

(i) Classification of plastics. **(3 marks)**

(ii) General care of plastics. **(3 marks)**

(iii) General cleaning of plastics. **(4 marks)**

(b) (i) What is credit buying? **(1 mark)**

(ii) Discuss **three** forms of credit buying. **(4 ½ marks)**

(c) Explain **three** factors that determine the width of a hem. **(4 ½ marks)**

41. (a) Highlight **five** points to observe when laying pattern pieces onto the fabric and cutting out. **(5 marks)**

(b) Highlight **five** points on the planning and serving of meals for invalids. **(5 marks)**

(c) State **five** measures you would take to conserve fuels in your home. **(5 marks)**

(d) (i) Give **two** examples of layette. **(1 mark)**

(ii) State **four** points to bear in mind when laundering layette. **(4 marks)**

42. (a) Cholera is a waterborne disease caused by a bacteria. Cholera break-out is currently experienced in different parts of Kenya.

(i) Suggest **two** possible reasons for the outbreak. **(2 marks)**

(ii) List **four** symptoms and signs of cholera. **(4 marks)**

(iii) If you were called upon to address the people in the affected areas, What would be your advice on the prevention and control of cholera? Give **four** points. **(4 marks)**

(b) Describe the procedure for attaching an already prepared collar into a shirt using a self-neatening method. **(5 marks)**

(c) Explain **five** uses of sugar in flour mixtures. **(5 marks)**

SOARING HIGH 2026 KCSE PREMOCK

KCSE SERIES 1 TRIAL

HOME-SCIENCE

441/2

PAPER 2

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

441/2

HOMESCIENCE

CLOTHING CONSTRUCTION

PAPER 2

PRACTICAL

$2_{1/2}$ HOURS

Instruction to the students

(a) This paper consists of 3 printed pages.

(b) Candidates should check the question paper to ascertain that all the pages printed as indicated and that no questions are missing.

A pattern of girl's skirt is provided. You are advised to study the sketches, the question paper and the layout carefully before you begin the test.

MATERIALS PROVIDED

1.

A- Skirt front

B- Skirt back

C- Pocket

D- Front yoke

2. Light weight plain cotton fabric 50cm long by 90cm wide.

3. Sewing thread to match the fabric.

THE TEST

Using the materials provided, cut out and make up the RIGHT HALF of the skirt to show the following process.

(a) Making of the back dart

(b) The preparation of the gathers on the skirt front piece

(c) Attachment of the yoke piece to the skirt front piece using a neatened open seam.

(d) Attachment of front pocket piece to the skirt front and back pocket to the skirt back.

(e) The making of a neatened open seam at the side above and below pocket mouth.

(f) The joining of the bag seam (do not neaten)

(g) The preparations of the skirt hem and slip hemming it.

At the end of the test, firmly, sew onto your work, a single fabric a label bearing your name and number.

Remove the needle and pins from your work, then fold your carefully and present it for assessment.

SOARING HIGH 2026 KCSE PREMOCK

KCSE SERIES 1 TRIAL

HOME-SCIENCE

441/3

PAPER 3

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

441/3

HOME SCIENCE

FOODS AND NUTRITION

PRACTICAL

PAPER 3

1 ¾ HOURS

PLANNING SESSION: 30 MINUTES

PRACTICAL TEST SESSION 1 ¼ HOURS

INSTRUCTIONS TO CANDIDATES

- *Read the test carefully.*
- *Write your name and index number on every sheet of paper used.*
- *Textbooks and recipes may be used during the planning session as reference materials.*
- *You will be expected to keep to your order of work during the practical session.*
- *You are allowed to take away ONLY your reference materials at the end of the planning session.*
- *You are not allowed to bring additional notes to the practical session.*

THE TEST

Your grandfather will pay a visit at your home while your parents are away. Using ALL the ingredients listed below, prepare, cook, and present a one-course lunch for both of you. In addition include a nourishing drink.

Ingredients

- Potatoes/Rice/ maize meal flour
- Liver / minced beef
- Tomatoes
- Onions
- Dhania
- Carrots
- Hoho
- Green leafy vegetables
- Fruits in season
- Milk
- Sugar
- Salt

Planning session: 30 minutes

Use separate sheets of paper for each task listed below and use carbon paper to make duplicate copies then proceed as follows:

1. Identify the dishes and write down their recipes.
2. Write down your order of work
3. Make a list of the foodstuff and equipment you will require.

SOARING HIGH 2026 KCSE PREMOCK

KCSE SERIES 1 TRIAL

ISLAMIC RELIGIOUS EDUCATION

314/1

PAPER 1

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

INSTRUCTIONS TO CANDIDATES.

1) *This paper consists of six questions.*
2) *Answer any five questions on the foolscaps provided.*
3) *Each question carries 20 marks.*

QUESTION	CANDIDATE'S SCORE
1	
2	
3	
4	
5	
6	
TOTAL SCORE	

1 a. Explain the relevance of narrating stories of the prophet in the Holy **Quran.** **(6marks)**

b. Discuss the factors that will strength peace and cohesion in the society according to suratul hujurat **(8marks)**

c. State six reasons why the Quran was revealed in **bits** **(6 marks)**

d.

2a. Outline ways through which the Qur'an has been protected from interpolation. **(8marks)**

b. Why was Zaid bin Thabit placed in charge for the compilation of the **Qur'an.** **(5 marks)**

c. State where the surah was revealed. **(7 marks)**

i) Suratul Alaq – ii) Suratul Asr – iii) Suratul Nasr – iv) Suratul Fiil –

v) Suratul Baqara – vi) Suratul Nur – vii) Suratul Hujurat –

3a. Discuss the contribution of Hadith to the Development of Islamic culture. **(7marks)**

b. Enumerate Methods used by Imam Bukhari in the compitation of Sahih Bukhari**. (7marks)**

c. The prophet said seeking knowledge is an obligation on every Muslim. In what ways muslims in Kenya have practiced the saying about the acquisition of knowledge**.** **(6marks)**

4a.Differentiate between hadith Qudsi and hadith an Nabawwi**.** **(6 marks)**

b. The prophet saw said "whoever is merciful even to a sparrow that he slaughter Allah will be merciful to him on the day of judgment. In light of this hadith and other on caring of animals. Explain the Islamic teaching of the Hadith on the care for animals. **(8marks)**

c. Explain the four forms of hadith **(4marks)**

5a.Discuss the factors that led to the development of school of thought (madhahibs)**.(8 marks)**

b. Describe the performance of swalatul musafir**.** **(8marks)**

c. Significance of the concept of Tawba in Islam**.** **(4 marks)**

6 a. Explain the three times of Tawheed**.** **(6 marks)**

b. Gives the reasons for the revelation of Divine books of Alla**h.** **(7 marks)**

c. Outline the significance of Qadha and Qadar to a muslim. **(7 marks)**

SOARING HIGH 2026 KCSE PREMOCK

KCSE SERIES 1 TRIAL

ISLAMIC RELIGIOUS EDUCATION

314/2

PAPER 2

TIME: 2½ HOURS

NAME……

SCHOOL…… SIGN……

INDEX NO…… ADM NO……

INSTRUCTIONS TO CANDIDATES.

1) *This paper consists of six questions.*
2) *Answer any five questions on the foolscaps provided.*
3) *Each question carries 20 marks.*

QUESTION	CANDIDATE'S SCORE
1	
2	
3	
4	
5	
6	
TOTAL SCORE	

1. (a).Discuss the measures put by Islam to guard the society against zinaa. (10 marks)

(b) State the manners of visiting the toilet according to Islam. (5 marks)

(c) What is the rationale for the prohibition of *Israf*? (5 marks)

2. (a) State the conditions for *nikah*. (5 marks)

(b) Identify reasons that may force a husband and wife to divorce each other (7 marks)

(c) Explain the different types of eddat in Islam (8marks)

3. (a) Identify **five** illegal ways of earning money according to Islam. (5marks).

(b) Give the conditions that an agreement has to fulfill for it to be binding to two Parties according to Islam. (8mks)

(c) Describe the Islamic teachings on co-existence with non-Muslims. (7 marks)

4. (a) Explain **five** challenges Kenyan Muslims face in education. (10 marks)
(10mks).

(b) Give reasons why Sayyidina Uthman Ibn Affan was elected Caliph (5marks)

(c) Mention **five** contributions of Caliph Umar bin Khattab to the development of Islam. (5marks)

5. (a) Mention the contribution made by the Abbasids to education. (6marks).

(b) Explain ways through which Prophet Muhammad (p.b.u.h) eliminated racism. (7marks)

(c) Discuss the factors that led to the fall of the Ummayads (7marks)

6. (a) Discuss four ways in which Islamic culture has influenced the Kenya society.(8 marks)

(b) State Ibn Khaldun's views in education. (7marks)

(c) Identify five contributions of Ibn Sina to medicine. (5 marks)

THE END

FOR THE FOLLOWING;

- ✓ **ONLINE TUITION**
- ✓ **REVISION NOTES**
- ✓ **SCHEMES OF WORK**
- ✓ **SETBOOKS VIDEOS**
- ✓ **TERMLY EXAMS**
- ✓ **QUICK REVISION KITS**
- ✓ **KCSE TOPICALS**
- ✓ **KCSE PREMOCKS**
- ✓ **TOP SCHOOLS PREMOCKS**
- ✓ **JOINT PREMOCKS**
- ✓ **KCSE MOCKS**
- ✓ **TOP SCHOOLS MOCKS**
- ✓ **JOINT MOCKS**
- ✓ **KCSE POSTMOCKS**
- ✓ **TOP SCHOOLS PREDICTIONS**
- ✓ **KCSE PREDICTIONS**
- ✓ **KCSE REVEALED SETS**

CALL/TEXT/WHATSAPP

0746-222-000

0742-999-000

mwalimuconsultancy@gmail.com

This is a Copyright Property of Mwalimu Consultancy Ltd.

Powered By Mr Isaboke