KCSE 2022 PREDICTION

ALL SUBJECTS

SET 2

SUBJECTS PREDICTED INCLUDE;

Mathematics,English,Kiswahili,CRE,Geography,History,Biology,Chemistry,Physics,

French,Agriculture,Business,Computer,IRE &Home-Science.

Set 2 of Detailed Comprehensive Possible Expected Questions/Areas Predicted By KNEC Examiners to ALL

KCSE 2021 CANDIDATES Sitting in APRIL 2022.

(CONFIDENTIAL)

FOR MARKING SCHEMES/ANSWERS

CALL/WHATSAPP 0707550000 / 0705525657

SUCCESS TO ALL KCSE CANDIDATES!

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KCSE 2021 PREDICTION

NAME…… **INDEX NO…….**

SCHOOL…… **SIGN…….**

DATE……

313/1

CHRISTIAN RELIGIOUS EDUCATION

Paper 1

Time: 2 ½ Hours

Instructions to Candidates:

1. *The question paper has **six** questions.*
2. *The candidate should answer* **ANY FIVE** *questions.*
3. *All the answers should be written in the answer booklet provided.*

FOR EXAMINERS USE ONLY

QUESTION	MARKS
Q1	
Q2	
Q3	
Q4	
Q5	
Q6	
GRAND TOTAL	

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QUESTIONS

1. **(a)** From the genesis stories of creation, outline **seven** teachings about human beings. **(7 marks)**

   (b) With reference to the story of the fall of human beings in Genesis 3, state **four** effects of sin on Adam and Eve. **(8 marks)**

   (c) How does the church help to bring back members who have fallen from the faith? **(5marks)**

2. **(a)** Describe the covenant ceremony between God and Abraham. (Genesis 15:1-9) **(8 marks)**

   (b) State the characteristics of the covenant between God and Abraham. **(7 marks)**

   (c) Identify five lessons that Christians learn about God from the call of Abraham. **(5 marks)**

3. **(a)** State **seven** functions of the temple in the Jewish community **(7 marks)**

   (b) Identify **six** ways which show that king Solomon turned away from the covenant way of life. **(6 marks)**

   (c) Give **seven** factors that led to the increase of Christian denominations in Kenya today. **(7 marks)**

4. **(a)** Give **four** similarities between prophets in the Old Testament and traditional African communities. **(8 marks)**

   (b) Outline **five** teachings of prophet Amos on the remnant and restoration of the Israelites (Amos 9:8-15) **(5 marks)**

   (c) State the relevance of prophet Amos teaching on election of Israel to Christians in Kenya today. **(7 marks)**

5. **(a)** Outline **six** response that Jeremiah made to God during his call (Jer 1:4-19) **(6 marks)**

   (b) Show how the letter Jeremiah wrote to the exiles gave them hope for restoration. **(Jer 29:4-15)** **(7 marks)**

   (c) Suggest **seven** reasons why Christians should accept pain and suffering in their daily lives. **(7 marks)**

6. **(a)** Name the specialists in Traditional African Communities **(5 marks)**

   (b) Explain reasons why cleansing rituals were performed in Traditional African Communities. **(8 marks)**

   (c) Suggest **seven** reasons why the church is opposed to female genital mutilation (F.G.M.) **(7 marks)**

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NAME…… **INDEX NO…….**

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DATE……

313/2

CHRISTIAN RELIGIOUS EDUCATION

Paper 2

Time: 2 ½ Hours

Instructions to Candidates:

1. *This paper contains six questions.You are required to answer **ANY FIVE** questions.*
2. *All answers should be written in the answer booklet provided.*
3. *All answers must be written in English.*

FOR EXAMINERS USE ONLY

1	2	3	4	5	6	GRAND TOTAL

1. **(a)** Outline **seven** prophecies made by Prophet Jeremiah concerning the Messiah(Jer 23:5-6) **(7 marks)**

   (b) Describe the birth of John the Baptist (Luke 1:57-79) **(8 marks)**

   (c) What does the Magnificat reveal about the nature of God? (Luke 1:46-56) **(5 marks)**

2. **(a)** Narrate the temptations of Jesus in the wilderness before he began his public ministry (Luke 4:1-13) **(8 marks)**

   (b) State **seven** lessons that Christians learn from the call of the first disciples. (Luke 5:1-11) **(7 marks)**

   (c) Outline the teaching of Jesus on the love for enemies from the sermon on the plain (Luke 6:27-36) **(5 marks)**

3. **(a)** Give **six** similarities between the Jewish Passover and the Christian Easter. **(6 marks)**

   (b) In which ways was the trial of Jesus unfair? **(6 marks)**

   (c) Explain **four** ways in which Christians fight injustices in the society today. **(8 marks)**

4. **(a)** State the teachings of Jesus on the role of the Holy Spirit **(5 marks)**

   (b) How are the gifts of The Holy Spirit manifested in the church today? **(8 marks)**

   (c) State **seven** factors that threaten unity in the church today. **(7 marks)**

5. **(a)** Identify sources of Christian Ethics. **(7 marks)**

   (b) Identify ways in which the youth in Kenya can lead responsible sexual lives **(7 marks)**

   (c) State the importance of children in both Christianity and Traditional African Communities. **(6 marks)**

6. **(a)** Outline the Christian teaching on family **(6 marks)**

(b) State **eight** characteristics that demonstrate responsible parenthood. **(8 marks)**

(c) How does the church strengthen family relationship today? **(6 marks)**

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KCSE 2021 PREDICTION

NAME…… **INDEX NO……..**

SCHOOL…… **SIGN……..**

DATE……

311/1

HISTORY AND GOVERNMENT

Paper 1

Time: 2 ½ hours

Instructions to candidates:

a) *This paper consists of **THREE** sections A, B and C.*

b) *Answer **ALL** questions in section A, **three** in section B and **two** questions in section C.*

c) *Answers to all questions to be given in the answer sheets provided.*

For Examiner's Use Only

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

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SECTION A [25 marks]

Answer All the Questions in This Section

1. Give **two** ways in which archeologists identify a pre-historic site. **(2 marks)**

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2. Identify **one** natural factor that caused the Abagusii to migrate from Mt.Elgon to their present homeland. **(1 mark)**

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3. State the **main** factor that contributed to the growth of city states along the Kenyan coast before 1500AD. **(1 mark)**

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4. Name the winds that aided the early visitors to come to Kenya coast upto 1500AD. **(1 mark)**

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5. Give **two** peaceful methods of resolving conflicts in Kenya. **(2 marks)**

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6. State **two** ways in which direct democracy is exercised in Kenya. **(2 marks)**

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7. Identify **two** education commissions established in Kenya before independence. **(2 marks)**

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8. Name the body that made laws of Kenya during the colonial period. **(1 mark)**

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9. Outline **two** problems experienced by political associations in Kenya upto 1939. **(2 marks)**

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10. Define promulgation. **(1 mark)**

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11. Give **two** methods used by the British to administer the Kenya colony between 1920 -1963.

(2 marks)

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12. Give **two** ways in which colonial land policy undermined African farming. **(2 marks)**

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13. Who formed the Kenya People's Union (KPU) in 1960? **(1 mark)**

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14. What was the **main** contribution of Prof. Wangari Maathai to development of Kenya? **(1 mark)**

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15. Give **two** qualifications that a person must fulfill in order to be allowed to register as a voter in Kenya. **(2 marks)**

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16. Identify **one** house of the Kenya parliament. **(1 mark)**

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17. Name **one** branch of the national police service in Kenya. **(1 mark)**

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SECTION B: 45 MARKS

Answer Any Three Questions.

18. (a) State **five** economic activities of the Agikuyu during pre-colonial period. **(5 marks)**

(b) Describe the political organization of the Maasai during the pre-colonial period **(10 marks)**

19. (a) State **five** reasons for the coming of the Portuguese to Kenyan coast in the 15th Century. **(5 marks)**

(b) Explain **five** effects of the Portuguese rule on East African Coast. **(10 marks)**

20. (a) State **five** political developments between 1945 and 1963 which hastened the attainment of independence in Kenya. **(5 marks)**

(b) Explain the roles played by the Kenya Federation of Labour during the colonial period. **(10 marks)**

21. (a) Identify **three** pillars of Nyayoism. **(3 marks)**

(b) Explain **six** ways in which Harambee has promoted education in Kenya. **(12 marks)**

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SECTION C: 30 MARKS

Answer Any Two Questions in this Section.

22. (a) Give **three** circumstances in which one's right to life may be taken away. **(3 marks)**

(b) Explain **six** reasons why it is important to respect human rights. **(12 marks)**

23. (a) Name **five** functions of the Independent Electoral and Boundaries Commission of Kenya.

(5 marks)

(b) Explain how judicial independence is promoted in Kenya. **(10 marks)**

24. (a) Identify **five** stages in preparation of the National Budget in Kenya. **(5 marks)**

(b) Explain why it is important for the government of Kenya to prepare the National Budget annually. **(10 marks**

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311/2

HISTORY AND GOVERNMENT

Paper 2

Time: 2 ½ Hours

Instructions to Candidates

a) *This paper consists of THREE sections A, B and C.*

b) *Answer **ALL** questions in section A, **THREE** in section B and **TWO** in section C*

c) *Answers to ALL questions to be given in the answer sheets provided.*

For Examiner's Use Only

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

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SECTION A [25 marks]

Answer All the Questions in This Section

1. Name **one** source of information on the creation theory of man. **(1 mark)**

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2. Identify **two** artifact that can be found in archeological site **(2 marks)**

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3. State **two** ways in which agriculture spread in Africa. **(2 marks)**

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4. Give the main form of transport used during the Trans-Saharan trade. **(1 mark)**

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5. Identify one way in which HIV/AIDS affects industrialization. **(1 mark)**

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6. Outline two social functions of the ancient city of Athens in Greece **(2 marks)**

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7. State two economic activities of Shona during the pre-colonial period. **(2 marks)**

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8. Give two social reasons which made the European countries to scramble for colonies in Africa.

(2 marks)

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9. State one way in which Ndebele benefited after British Ndebele war (1893-1896) **(1 mark)**

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10. Identify one political reform introduced by President Fredrik De Klerk that led to the achievement of black majority rule in South Africa. **(1 mark)**

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11. Name the system of administration introduced by the French after the assimilation policy. **(1 mark)**

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12. Identify the main reason why many nations of the world turn against Germany during the First World War. **(1 mark)**

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13. Highlight two social effects of the First World War. **(2 marks)**

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14. Name two nations which were placed under the League of Nations after the end of World War. **(2 marks)**

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15. Outline two duties of the United Nations Secretariat. **(2 marks)**

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16. Name one superpower nation that was involved in cold war. **(1 mark)**

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17. Give the main reason for the formation of non-aligned movement. **(1 mark)**

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SECTION B: 45 MARKS

Answer Any Three Questions in This Section

18. (a) Highlight **five** changes which marked the Agrarian Revolution in Britain. **(5 marks)**

(b) Discuss **five** effects of the Agrarian Revolution in the United States of America.

(10 marks)

19. (a) Outline **five** methods which were used by the Europeans to acquire colonies in Africa.

(5 marks)

(b) Explain **five** reasons why Africans were defeated during the Maji Maji rebellion. **(10 marks)**

20. (a) Outline **three** reasons why the policy of assimilation was easily applied in the four communes of Senegal. **(3 marks)**

(b) Explain **six** effects of the British direct rule in Zimbabwe. **(12 marks)**

21. (a) Outline **five** characteristics of the commonwealth nations. **(5 marks)**

(b) Discuss **five** reasons why PAN-AFRICAN movement had not established itself in Africa well before 1945. **(10 marks)**

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SECTION C: 30 MARKS

Answer Any Two Questions from This Section

22. (a) Give **three** functions of the Kabaka of Buganda Kingdom during the pre-colonial period**.**

(3 marks)

(b) Describe the political organization of the Shona during the pre-colonial period.

(12 marks)

23. (a) Identify **five** weapons used during the cold war. **(5 marks)**

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

24. (a) State **three** ways in which one can qualify as a member of the House of Lords in Britain.

(3 marks)

(b) Describe **six** duties of the Prime Minister of Britain. **(12 marks)**

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312/1

GEOGRAPHY

Paper 1

Time: 2 ¾ Hours

Instructions to Candidates

a) *This paper has two sections:* ***A*** *and* ***B****.*

b) *Answer* ***all*** *questions in section* ***A***

c) *Answer* ***question 6*** *and any* ***two other*** *questions from section* ***B****.*

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

FOR EXAMINERS USE ONLY

SECTION A

Question number	1	2	3	4	5	Sub Total
Marks						

Grand total

SECTION B

Question number	6	7	8	9	10	Sub Total
Marks						

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SECTION A

Answer All Questions in This Section

1. (a) What is a Stevenson screen? **(2 marks)**

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(b) Name **two** forms of precipitation that commonly occur in Kenya **(2 marks)**

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2. (a) State **three** characteristics of the crust **(3 marks)**

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(b) Give **three** reasons why the intensity of insolation is higher at equator than at Polar Regions. **(3 marks)**

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3. **(a)** Identify **two** theories used to describe the origin of Fold Mountains. **(2 marks)**

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(b) Give **three** effects of Fold Mountains on climate. **(3 marks)**

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4. **(a)** Name **two** types of earth movements that occur within the earth's crust. **(2 marks)**

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(b) Name **three** tectonic plates **(3 marks)**

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5. **(a)** Define faulting **(2 marks)**

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(b) State **three** effects of faulting on human environment (**3 marks)**

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SECTION B

Answer Question 6 and Any Other Two Questions in This Section

6. Study the map of **Yimbo** 1:50,000 (sheet 115/1) provided and answer the following questions

a) What is the map name of the extract given? **(1 mark)**

b) Name the type of boundaries in the map extract. **(2 marks)**

c) Calculate the area of Mageta island **(2 marks)**

d) **(i)** Using a scale of 1cm represent 20M, draw a cross-section from grid reference 270850 to 330850. **(4 marks)**

On it, mark and name the following features:

- Forest
- Hill
- River
- Swamp

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

e) Describe the long profile of River Yala. **(5 marks)**

f) Citing evidence from the map, explain the factors that influence trade in the area covered by the map. **(6 marks)**

7. (a) Define the following

(i) Aridity **(2 marks)**

(ii) Wind **(2 marks)**

(b) (i) Explain **three** ways in which wind erodes weathered materials in arid areas. **(6 marks)**

(ii) Name **three** features which develop under arid conditions as a result of wind erosion. **(3 marks)**

(c) State **four** factors which influence wind transportation in desert. **(4 marks)**

(d) (i) Apart from Wadis, name any **three** resultant features of water action in arid areas. **(3 marks)**

(ii) Describe the formation of a Wadi. **(5 marks)**

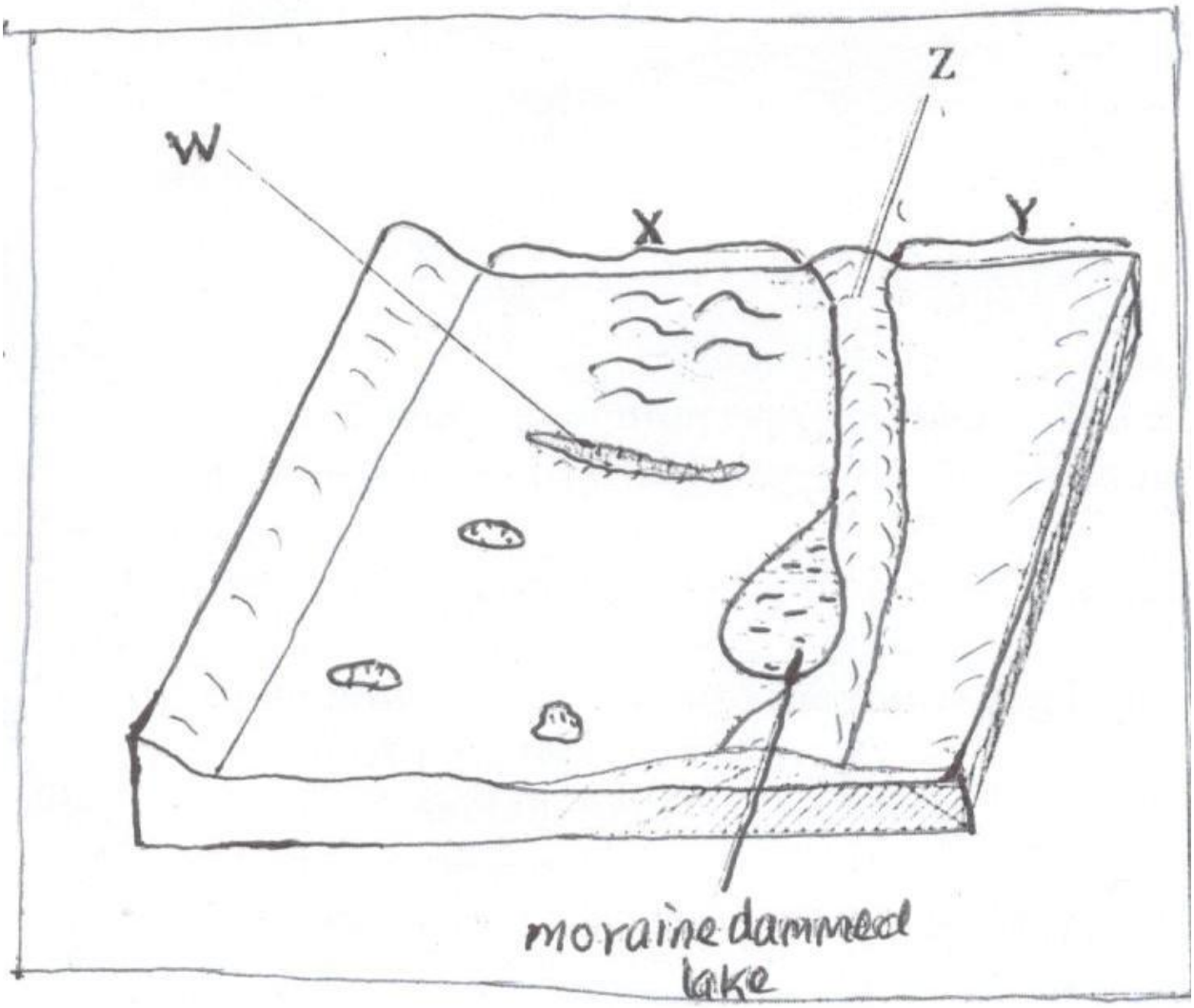
8. (a) What is a glacier? **(2 marks)**

(b) Describe how the following glacial erosional processes occur.

(i) Plucking **(3 marks)**

(ii) Abrasion **(3 marks)**

(c) The diagram below shows features on a glaciated lowland.



(i) Name the features marked **W**, **X**, **Y** and **Z**. **(4 marks)**

(ii) Describe how a drumlin is formed. **(5 marks)**

(d) Explain **four** negative effects of glaciations in low-land areas. **(8 marks)**

9. (a) **(i)** Define weathering **(2 marks)**

(ii) Explain the following processes of weathering

a. Hydration **(2 marks)**

b. Oxidation **(2 marks)**

c. Frost action **(3 marks)**

(b) State **three** conditions that influence the process of Solifluction. **(3 marks)**

(c) Describe how an exfoliation dome is formed. **(5 marks)**

(d) Explain **four** physical factors that enhance movement of material along the slope due to gravity. **(8 marks)**

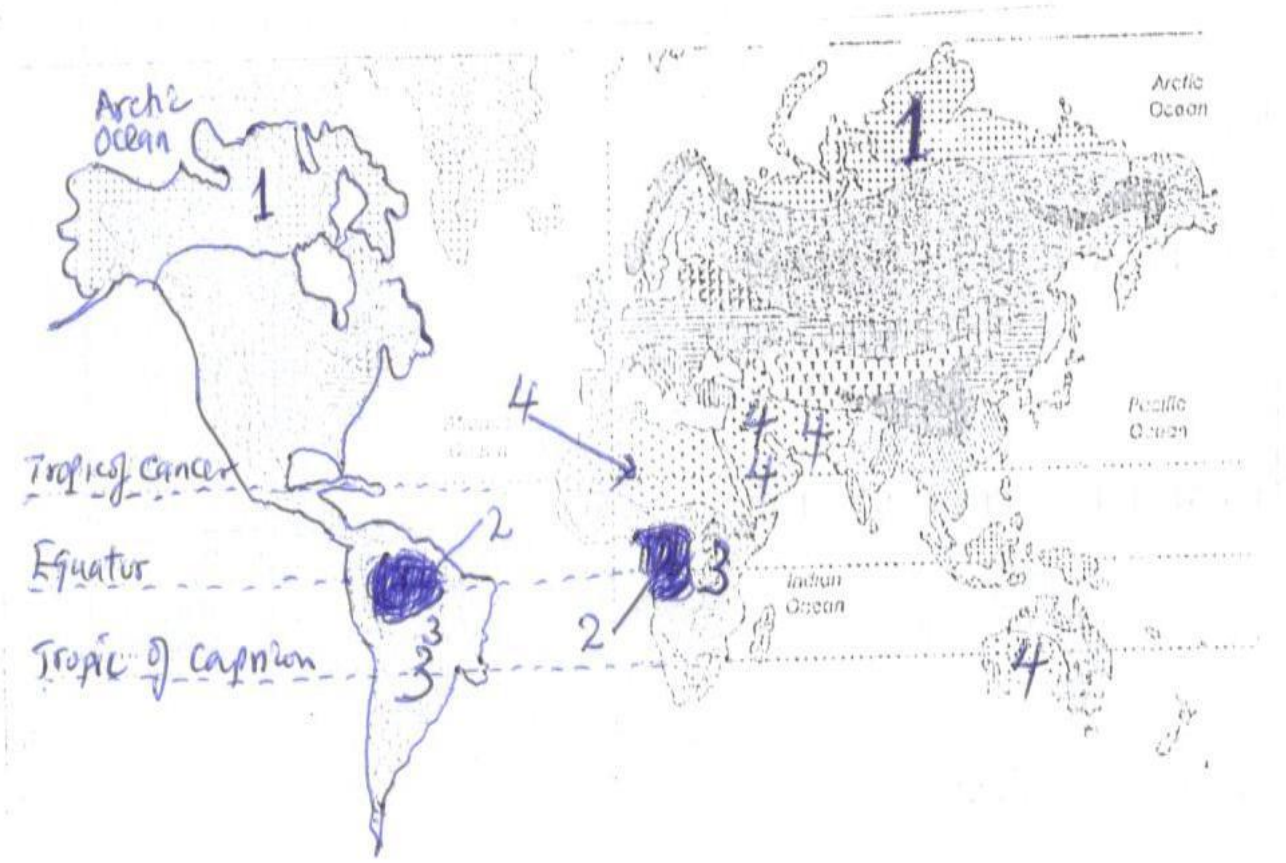
10. (a) Define the term vegetation. **(1 mark)**

(b) Explain how the following factors influence the distribution of vegetation.

(i) Aspect **(2 marks)**

(ii) Relief **(4 marks)**

(c) The map below shows world vegetation zone



(i) Name vegetation type marked 1, 2, 3 and 4. **(4 marks)**

(d) Explain **four** ways in which trees in coniferous forests are adopted to the climatic conditions. **(8 marks)**

(e) A form four Geography class is planning to carry out a field study in Kakamega forest.

(i) State how they would use the following tools during the study.

a. A tape recorder **(1 mark)**

b. A sketch map **(1 mark)**

c. A camera **(1 mark)**

(ii) Give **three** methods they would use to collect the data during the study. **(3 marks)**

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312/2

GEOGRAPHY

Paper 2

Time: 2 ¾ Hours

Instructions to Candidates:

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

(b) *Answer **ALL** questions in section **A**. In **section B** answer question **6** and any other **TWO** questions.*

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

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1	2	3	4	5	Total

6	7	8	9	10	Total

GRAND TOTAL

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SECTION A

Answer All Questions In This Section (25 Marks)

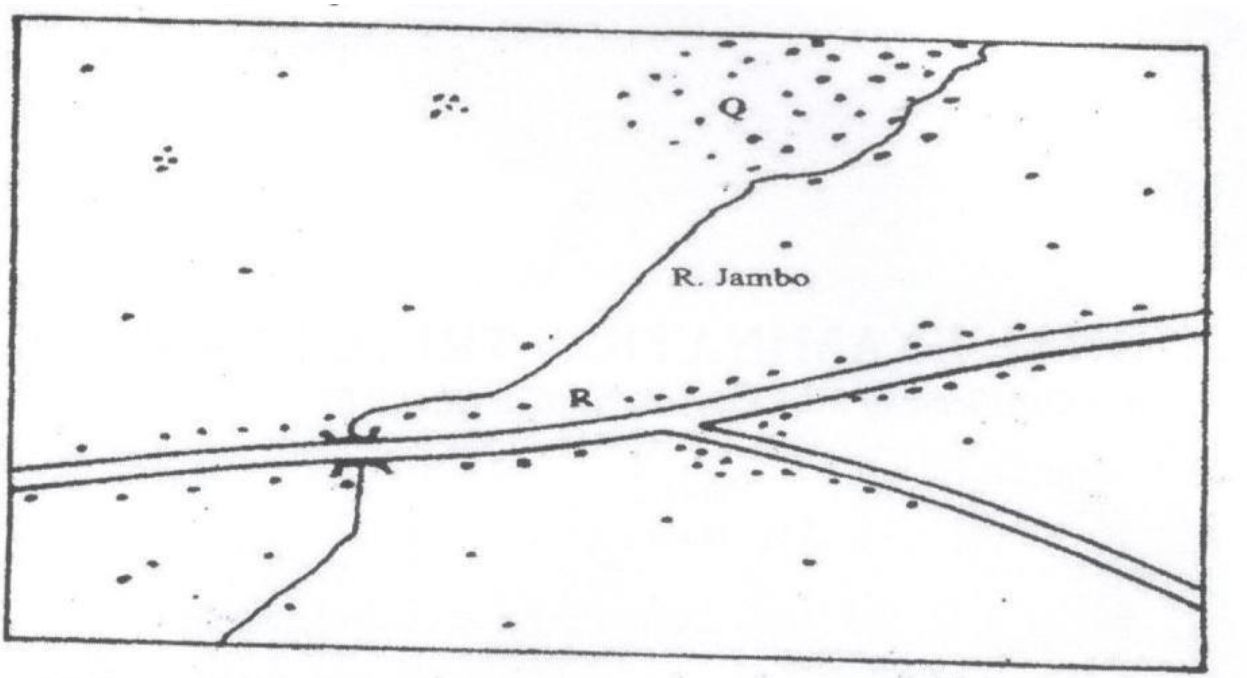
1. **(a)** Name the two types of human settlements **(2 marks)**

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Use sketch map below to answer question **(b)**



(b) Identify the settlement pattern marked Q and R. **(2 marks)**

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2. (a) State three characteristics of Jua Kali Industries in Kenya. **(3 marks)**

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(b) Give three problems facing the Jua Kali Industries in Kenya. **(3 marks)**

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3. The table below represents information on population change in Kenya by province between years 2000 and 2005.

Province	Population in Millions	
	Years	
	2000	**2005**
Nairobi	2.229	2.751
Central	3.882	4.038
Coast	2.662	2.927
Eastern	4.840	5.120
North-Eastern	1.054	1.438
Nyanza	4.598	4.916
Rift Valley	7.386	8.366
Western	5.532	3.885
Total	**30.183**	**33.441**

(a) Which province had the highest change in population between 2000 and 2005?

(3 marks)

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(b) Calculate the percentage increase in population in Kenya between 2000 and 2005. **(2 marks)**

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4. **(a)** State three problems that are associated with low tourist season in Kenya. **(3 marks)**

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(b) Name two main inland tourist attractions found in Kenya. **(2 marks)**

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5. (a) Distinguish between land reclamation and land rehabilitation. **(2 marks)**

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(b) State three significances of irrigation farming in Kenya **(3 marks)**

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SECTION B

Answer Question 6 and Any Other Two Questions in This Section.

6. Study the photograph below and use it to answer the questions that follow:



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

(ii) Name the type of livestock farming practice represented by the photograph. **(1 mark)**

(iii) Draw a rectangle measuring 16cm by 9cm to represent the area of the photograph. On it, sketch and label the main features shown on the photograph. **(5 marks)**

(b) (i) State four reasons why zero grazing is more popular among the dairy farmers in the Kenya highlands. **(4 marks)**

(ii) State similarities between dairy farming in Kenya and Denmark. **(3 marks)**

(iii) Explain four challenges faced by dairy farmers in Kenya. **(8 marks)**

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(c) State three steps being undertaken by the government to improve dairy farming in Kenya. **(3 marks)**

7. (a) (i) Name three types of minerals. **(3 marks)**

(ii) Briefly explain any three factors influencing the occurrence of minerals. **(6 marks)**

(b) (i) Describe the stages involved in the processing of gold. **(5 marks)**

(ii) State any five contributions of soda ash to the economy of Kenya. **(5 marks)**

(c) Students from Kembu Day School carried a field study on mining of soda ash on Lake Magadi.

(i) State any two hypotheses for their study. **(2 marks)**

(ii) State four problems they probably faced. **(4 marks)**

8. (a) (i) Define energy. **(2 marks)**

(ii) List three renewable sources of energy. **(3 marks)**

(b) (i) State two advantages of solar energy. **(2 marks)**

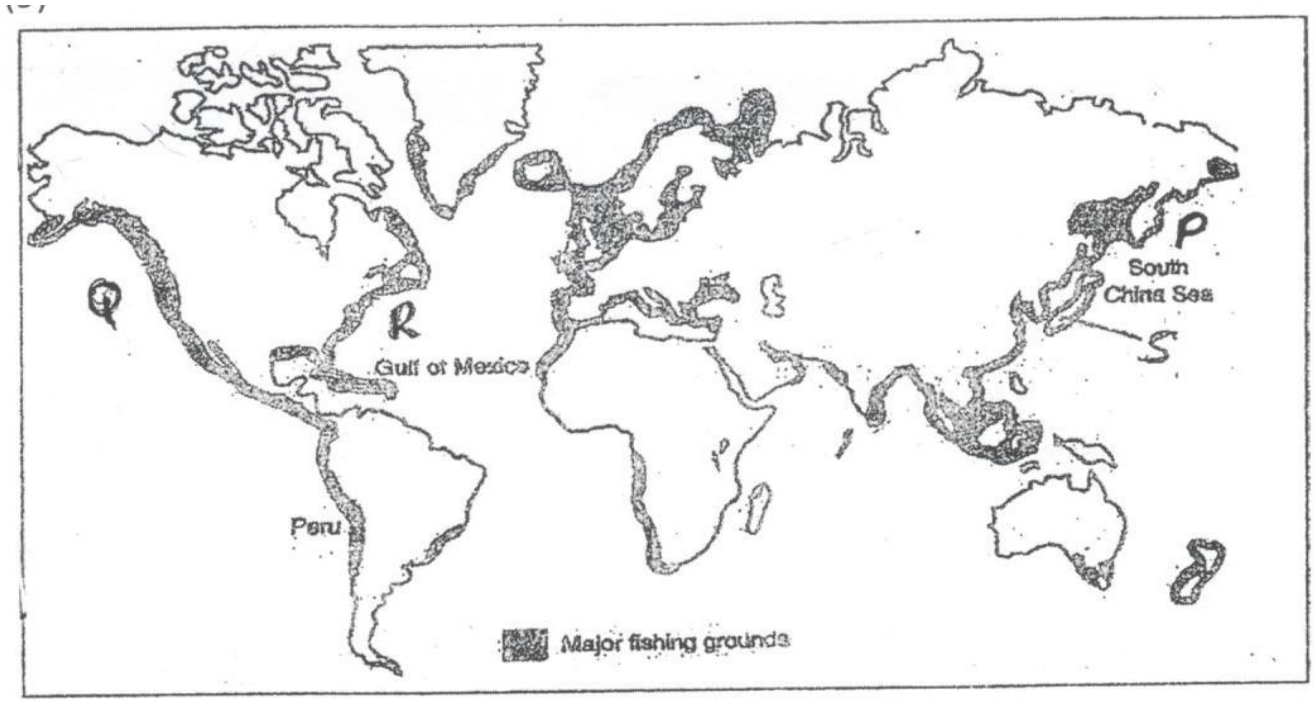
(ii) Give four reasons why there has been a decline in the use of a coal as a source of energy. **(4 marks)**

(c) Explain four ways in which Kenya has benefited from development of the seven forks hydroelectric power projects. **(8 marks)**

(d) (i) Define energy crisis. **(2 marks)**

(ii) State four effects of the energy crisis in the world **(4 marks)**

9. The map below shows the major fishing grounds in the world. Use it to answer the question.



(a) (i) Name the fishing grounds marked **P, Q** and **R** **3 marks)**

(ii) Explain four conditions that favour fishing in country marked **S** **(8 marks)**

(b) (i) Differentiate the term Pelagic and Dermarsal fish **(2 marks)**

(ii) Explain how ocean currents favour fishing in the shaded areas **(4 marks**)

(c) (i) State two methods used to preserve fish in Kenya. **(2 marks**)

(ii) Explain three human problems facing Marine fishing in East Africa. **(6 marks)**

10. (a) (i) Define re-afforestation **(2 marks)**

(ii) State four reasons why afforestation should be encouraged in Kenya **(4 marks)**

(iii) Name three provinces in Canada where forestry in practiced on large scale.

(3 marks)

(b) Explain three problems which hinder the Kenya government efforts to manage and conserve forest. **(6 marks)**

(c) Explain three factors that favour the growth of natural forest on the slopes of Mount Kenya

(**6 marks)**

I**(d)** dentify four factors that favour exploitation of forest in Canada. **(4 marks)**

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121/1

MATHEMATICS

PAPER 1

2 ½ Hours

Instructions to Candidates

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

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

c) *This paper consists of **TWO** sections: **section I** and **section II***

d) *Answer **all** the questions in **section I** and on only **five** questions from **section II***

e) ***Non-programmable** silent calculator **and** KNEC Mathematical tables may be used, except where stated otherwise.*

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Section I

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	**Total**

Section II

Grand Total

17	18	19	20	21	22	23	24

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SECTION I [50 marks]

Attempt All the Questions

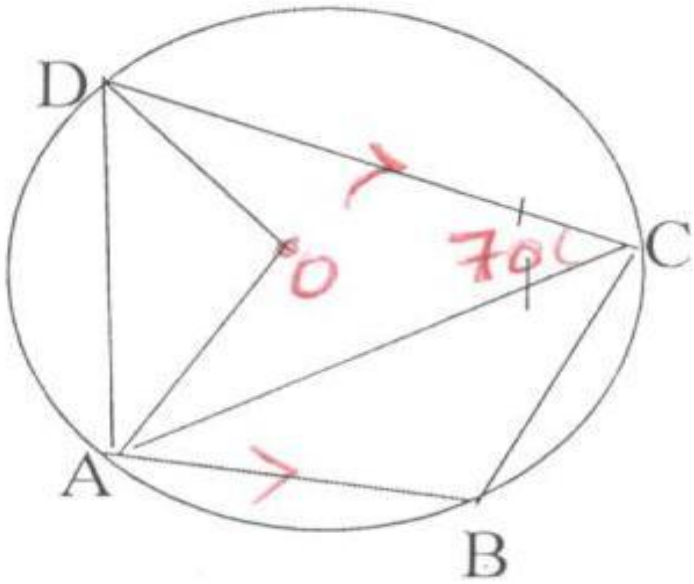
1. Evaluate $\frac{½ \text{ of } 3\,½ + 1\,½\,(2^{1}/_{2} - {}^{2}/_{3})}{¾ \text{ of } 2\,½ \div ½}$ **(3 marks)**

2. Mr.Rotich decided to honour his top 3 students in Mathematics by sharing sh 12,000 in the ratio 6:5:x for the first, second and third student respectively. If student number 2 got sh 4,000, find the value of x.

. **(3 marks)**

3. Express $3.02\dot{\dot{3}}$ as a fraction. **(2 marks)**

4. O is the center of the circle below and AB is parallel to DC. Angle ACD=70^o and angle ACB=10^o **(3 marks)**



Calculate the angles:

(i) ABC **(2 marks)**

(ii) OAD **(2marks)**

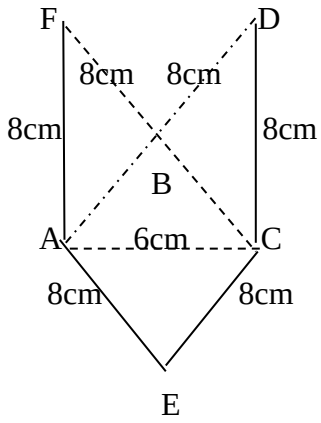
5. A sphere has a radius of 3.0cm. Find its density if the sphere has a mass of 100grams.

(3 marks)

6. Use reciprocal table to evaluate reciprocal of 0.3654. Hence find $\frac{\sqrt{3.24}}{0.3654}$ to 3 significant figures

(3 marks)

7. Below is a net of a model of a 3- dimensional figure. The lengths AB=BC=AC=6cm and lengths AF = FB = BD = CD = CE = AE = 8.0 cm. **(3 marks)**



(a) Sketch the solid model taking ABC as the base and height 5cm. **(2 marks)**

(b) Name the figure sketched. **(1 mark)**

8. Using logarithm tables, evaluate. **(4 marks)**

$$\frac{\sqrt[3]{47.26x0.866^2}}{345.8}$$

9. A line has the equation 3x – 2y – 5 = 0. Find:

(a) The gradient of the line. **(1mark)**

(b) The equation of the line in the form y = mx+c that passes through the point (4,6) and is perpendicular to the given line. **(3 marks)**

10. The exterior angle of a regular polygon is $(x-50)^o$ and the interior angle is $(2x+20)^o$. Find the number of sides of the polygon. **(3 marks)**

11. Simplify $\frac{x-5}{x+5} - \frac{7x-35}{x-25}$ **(3 marks)**

12. The cost of a camera outside Kenya is US $1,000 Jane intends to buy one camera through an agent who deals in Japanese. The agent charges her a commission of 5% on the price of the camera and further 1260 Yen as importation tax. How much Ksh will she need to send to the agent to obtain the camera, given that **(4 marks)**

1 U $ = 105.00 Yen

1 US$ = Ksh 63.00

13. Given that $\mathbf{a}\begin{pmatrix}2\\3\end{pmatrix}$ and $\mathbf{c} = \begin{pmatrix}3\\5\end{pmatrix}$ and $\mathbf{a} + 2\mathbf{b} = \mathbf{c}$. Find:

(i) b **(2 marks)**

(ii) Magnitude of ($\mathbf{a} + \mathbf{b}$) correct to 2 decimal places **(2 marks)**

14. A circle of radius 10.5cm has a sector whose angle at the centre of 12^o is cut off. Find the perimeter of the resulting sector. **(2 marks)**

15. Find all integral values of x which satisfy the inequalities $x + 11 > 4x - 19 \geq (2 - x)$ **(3 marks)**

16. A number q is such that when it is divided by 27, 30 and 45 the remainder is always 3. Find the smallest value of q. **(2 marks)**

SECTION II – 50

Attempt Only Five Questions

17. A passenger train travelling at 25Km/hr is moving in the same direction as the truck travelling at 30km/hr. The railway line runs parallel to the road and the truck takes 1 ½ minutes to overtake the train completely.

(a) Given that the truck is 5m long determine the length of the train in metres. **(6 marks)**

(b) The truck and the train continue moving parallel to each other at their original speeds. Calculate the distance between them after 4 minutes and 48 seconds after the truck overtake the train. **(2 marks)**

(c) The truck stopped 45 minutes after overtaking the train. How long did the train take to catch up with the truck? **(2 marks)**

18. The table below shows the distribution of marks scored by 40 students in an examination.

Class interval	60-64	65-69	70-74	75-79	80-84	85-89	90-94	95-99
Frequency	2	3	6	11	8	x	2	1

(a) Find the value of x **(1 mark)**

(b) State the modal class **(1 mark)**

(c) Calculate the mean mark correct to 2 d.p **(4 marks)**

(d) Calculate the median mark **(4 marks)**

19. A school water tank is in the shape of a frustum of a cone, the height of the tank is 7.2m and the top and bottom radii are 6m and 12m respectively.

(a) Calculate the slant height of the frustum, correct to one decimal place. **(2 marks)**

(b) Calculate the area of the curved surface of the tank correct to 2 d.p. **(3 marks)**

(c) Find the capacity of the tank, in litres correct to the nearest litre. **(3 marks)**

(d) On a certain day, the tank was filled with water. If the school has 500 students and each student uses an average of 40 litres of water per day, determine the number of days the student s would use the water. **(2 marks)**

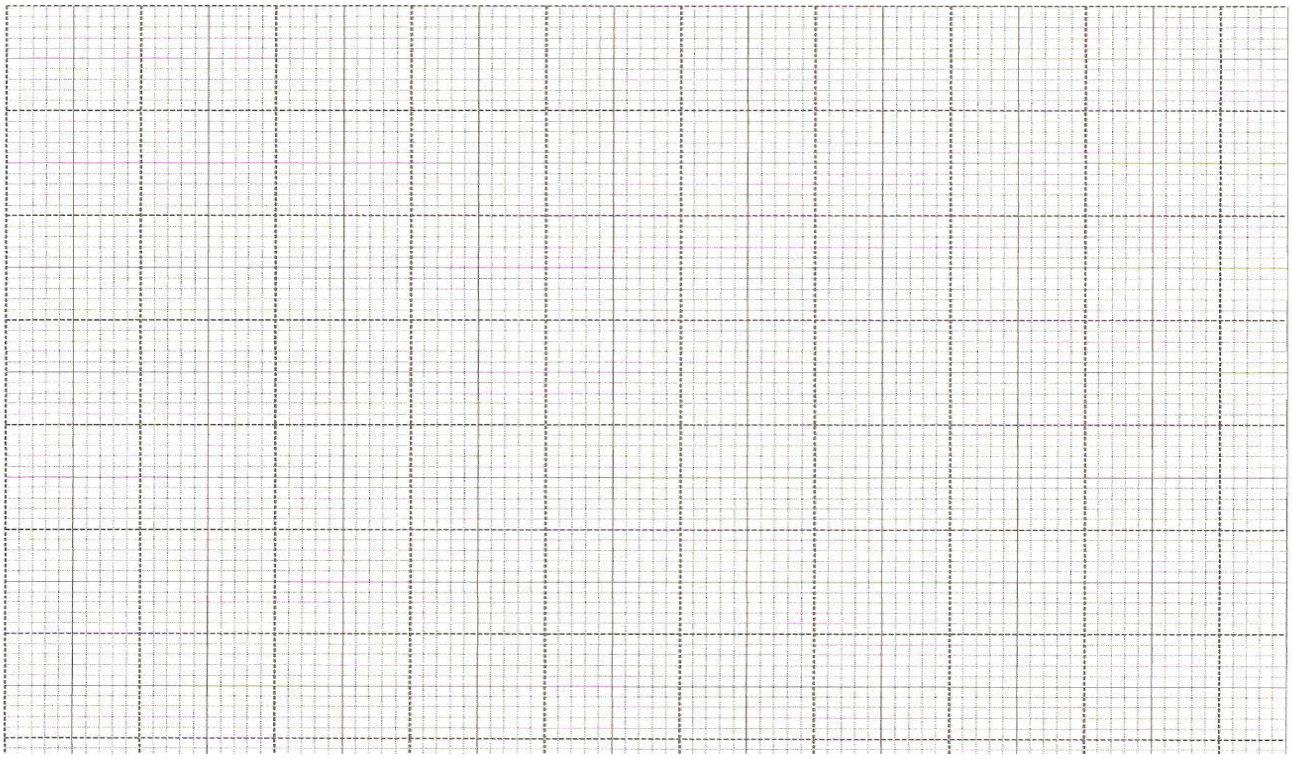
20. In Bomet county, a tailor bought a number of suits at a cost of sh 57,600 from wholesaler. Had he bought the same number of suits from a supermarket, it would have cost him sh 480 less per unit. This would have enabled him to buy four extra suits for the same amount of money.

(a) Find the number of suits the tailor bought. **(7 marks)**

(b) The tailor later sold each suit for sh 720 more than he paid for it. Determine the percentage profit he made. **(3 marks)**

21. A triangle BC with vertices A A(-4,2), B(-6,6) and C(-6,2) undergoes enlargement scale factor -1 and centre (-2,6) to produce triangle $A^IB^IC^I$.

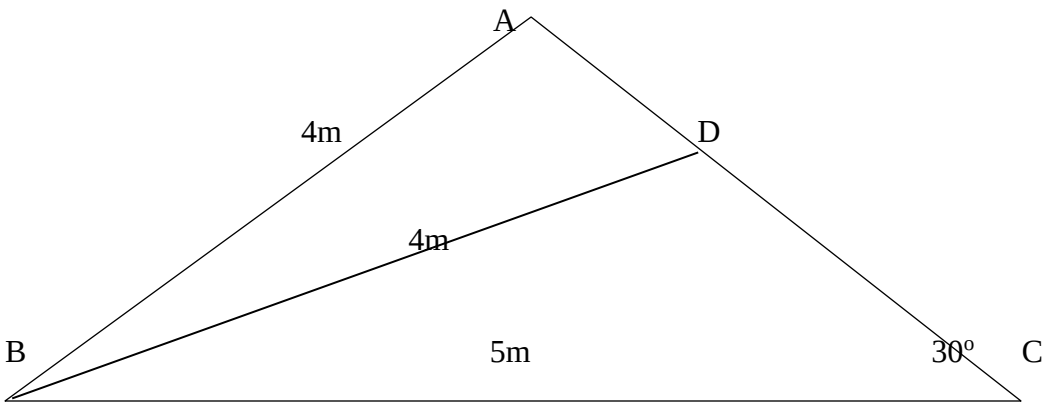
(a) On the grid provided draw triangle ABC and its image $A^IB^IC^I$, state the co-ordinates of $\Delta A^IB^IC^I$ **(4mks)**



(b) Triangle $A^IB^IC^I$ is the reflected in the line y+x to give $A^{II}B^{II}C^{II}$. Draw triangle $A^{II}B^{II}C^{II}$ and state the co-ordinates of its vertices. **(3 marks)**

(c) If triangle $A^{II}B^{II}C^{II}$ is mapped onto a triangle whose co-ordinates are A^{III} (-4,-2), B^{III} (-6,-6) and C^{III} (-6,-2) by a rotation, find the centre and angle of rotation. **(3 marks)**

22. The figure below shows a piece of land ABC not drawn to scale. Angle BDC is obtuse.



Calculate correct to 2 decimal places

(a) Angle BC **(3 marks)**

(b) Length AD **(3 marks)**

(c) Length DC **(2 marks)**

(d) Area of triangle ABC **(2 marks)**

23. The following measurements were recorded in a field book of a farm in metres

(xy = 400m)

	Y	
	400	
C60	340	
	300	120D
	240	100E
	220	160F
B100	140	
A120	80	
	X	

(a) Using a scale of 1cm representing 40m draw an accurate map of the farm. **(4 marks)**

(b) If the farm is on sale at Ksh 80,000.00 per hectare, find how much it costs. **(6 marks)**

24. A trader bought 5 shirts and 2 trousers at a cost of sh 2400. If he had bought 2 shirts and 4 trousers, he would have spent sh.3200.

(a) (i). Form two equations to represent the information above. **(2 marks)**

(ii). Using matrix method find the cost of a shirt and a trouser. **(4 marks)**

(b) If the trader bought 16 shirts and 20 trousers and sold them making a profit of 20% per shirt and 15% per trouser, find the percentage profit made on the total sale. **(4 marks)**

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KCSE 2021 PREDICTION

NAME…… **INDEX NO……..**

SCHOOL…… **SIGN……..**

DATE……

121/2

MATHEMATICS

Paper 2

TIME: 2 ½ Hours

INSTRUCTIONS TO CANDIDATES

- Write your name and Admission number in the spaces provided at the top of this page.
- This paper consists of two sections: Section I and Section II.
- Answer ***ALL*** questions from section I and ***ANY FIVE*** from section II
- Non – Programmable silent electronic calculators and KNEC mathematical tables may be used, except where stated otherwise.

FOR EXAMINERS USE ONLY

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

KCSE Predictions Marking Schemes - **0707550000 / 0705525657**

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SECTION I: ***Answer all questions from this section***

1. Use logarithm tables to evaluate **(4 Marks)**

$$\sqrt[3]{\frac{45.3 \times 0.00697}{0.534}}$$

2. Solve for x in the equation $2\text{Sin}^2x - 1 = \text{Cos}^2x + \text{Sinx}$ for $0^0 \leq x \leq 360^0$ **(3 Marks)**

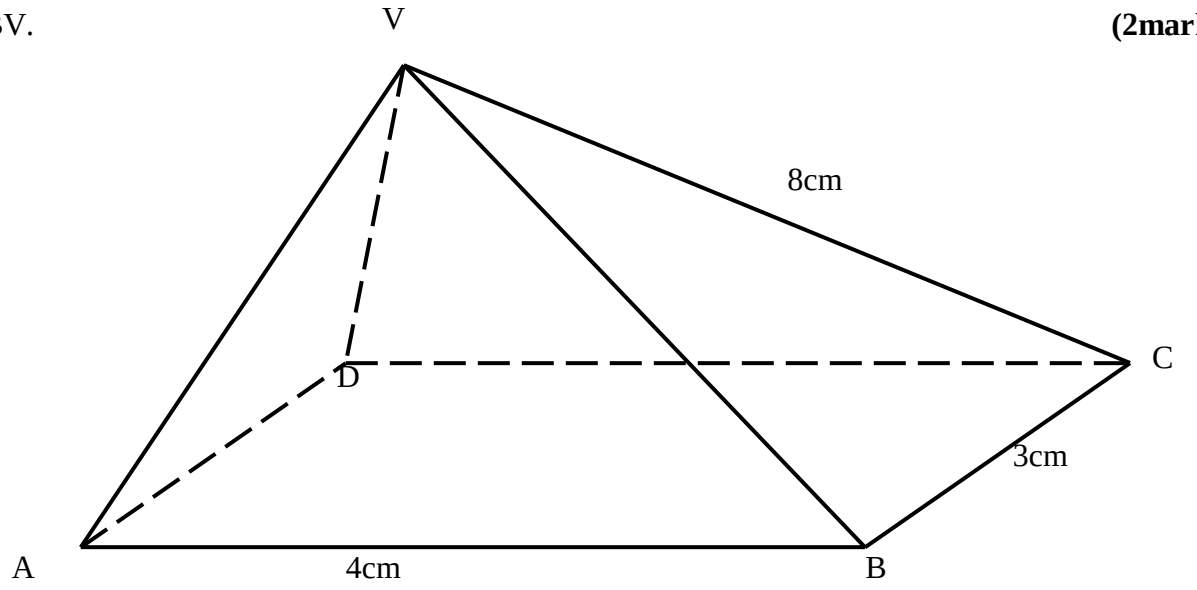
3. (a) Expand $\left(1 + \frac{3}{x}\right)^5$ upto the fifth term **(2 Marks)**

(b)Hence use your expansion to evaluate the value of $(2.5)^5$ to 3 d.p. **(2 Marks)**

4. Make p the subject of the formula **(3 Marks)**

$$E = \sqrt{\frac{p-3u}{y-3xp}}$$

5. The figure below shows a rectangular based right pyramid. Find the angle between the planes ABCD and ABV. **(2marks)**



6. A object A of area $10cm^2$ is mapped onto its image B of area $60cm^2$ by a transformation whose matrix is given by P= $\begin{Bmatrix} x & 4 \\ 3 & x+3 \end{Bmatrix}$. Find the possible values of x **(3 Marks)**

7. The position vectors of A and B are $\underset{\sim}{a} = 4i + 4j - 6k$ and $\underset{\sim}{b} = 10i + 4j + 12k$. D is a point on AB such that AD:DB is 2:1. Find the co-ordinates of D **(3 Marks)**

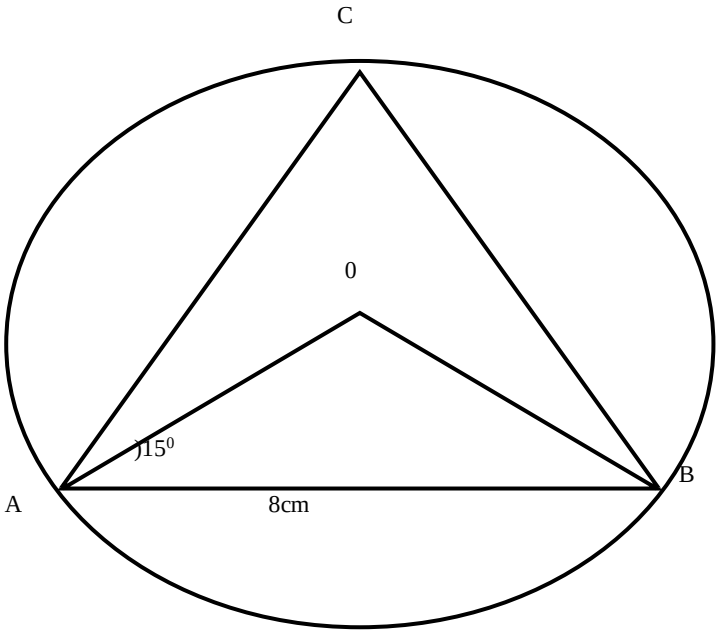
8. A dealer has two types of grades of tea, A and B. Grade A costs Sh. 140 per kg. Grade B costs Sh. 160 per kg. If the dealer mixes A and B in the ratio 3:5 to make a brand of tea which he sells at Sh. 180 per kg, calculate the percentage profit that he makes **(3 marks)**

9. A variable Z varies directly as the square of X and inversely as the square root of Y. Find the percentage change in Z if X increased by 20% and Y decreased by 19% **(3 Marks)**

10. By rounding each number to the nearest tens, approximate the value of $\frac{2454\ x\ 396}{66}$ Hence calculate the percentage error arising from this approximation to 4 significant figures **(3 Marks)**

11. Find the centre and radius of the circle whose equation is $2x^2 + 2y^2 - 8x + 12y - 2 = 0$ **(3 Marks)**

12. In the figure below AB = 8cm and O is the centre of the circle. Determine the area of the circle if angle OAB= 15^0 **(3 Marks)**



13. Pipe A can fill a tank in 2 hours; pipes 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 closed **(2 Marks)**

(b) To fill the tank with all the pipes open **(2 Marks)**

14. (a) Find the inverse of the matrix $\begin{pmatrix} 4 & 3 \\ 3 & 5 \end{pmatrix}$ **(1 Mark)**

(b)Hence solve the simultaneous equation below using matrix method **(3 Marks)**

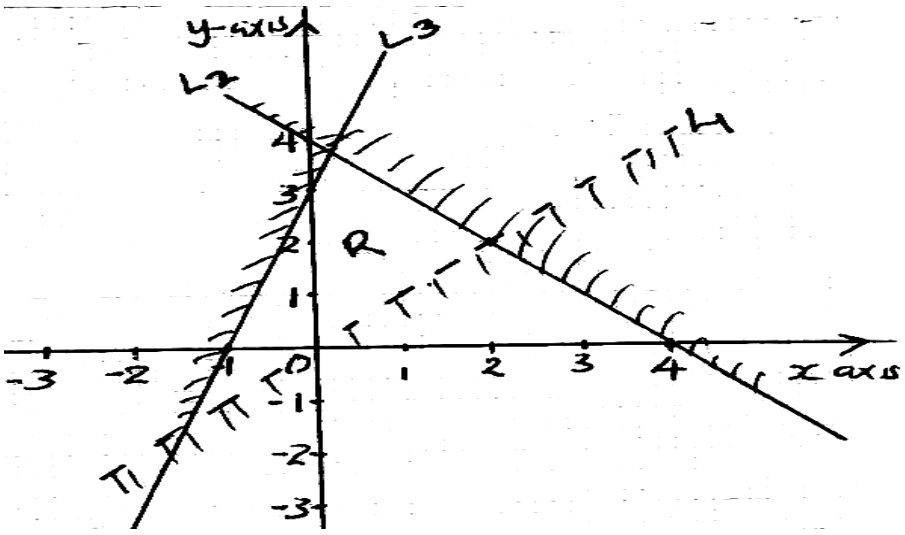
$4x + 3y = 6$

$5y + 3x - 5 = 0$

15. Evaluate by rationalizing the denominator and leaving your answer in surd form. **(2 Marks)**

$$\frac{\sqrt{8}_{0}}{1+Cos\ 45}$$

16. Form the three inequalities that satisfy the given region R **(3 Marks)**



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SECTION II – 50 MARKS

Answer any FIVE questions from this section

17. (a) P, Q and R are three quantities such that P varies directly as the square of Q and inversely as the square root of R.

i) Given that P = 12 when Q = 24 and R = 36, find P when Q =27 and R = 121. **(3 Marks)**

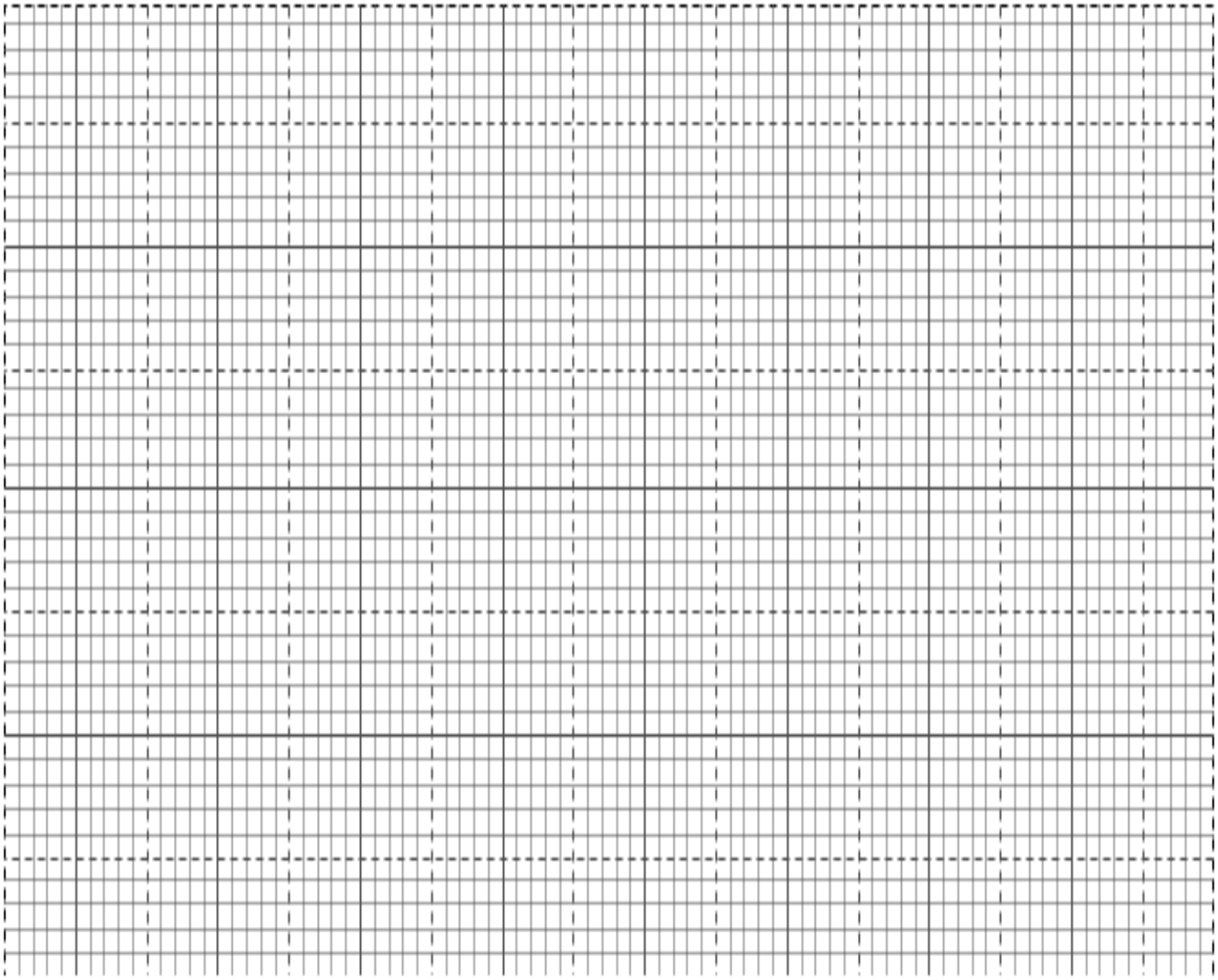
ii) If Q increases by 10% and R decreases by 25%, find the percentage increase in P. **(4 marks)**

b) If Q is inversely proportional to the square root of P and P = 4 when Q = 3. Calculate the value of P when Q = 8. **(3 marks)**

18. (a) complete the table for the curves $y = 3\sin(2x + 30^0)$ and $y = \text{Cos}2x$,use the range $0 \leq x \leq 180^0$

x	0	15	30	45	60	75	90	105	120	135	150	165	180
y=3sin (2x+30)	1.5		3		1.5		-1.5			-2.60	-1.00		1.5
y=Cos 2x	1			0		-0.866		-0.866	-0.5			0.866	1

(b) Using the scale Horizontal axis 1cm represent 30^0, vertical axis 1cm represent 1 unit, draw the graphs of $y = 3 \text{ Sin } (2x + 30)$ and $y = \text{Cos } 2x$ **(4 Marks)**



(c) Use your graph to solve the equation $3\sin(2x + 30) = \cos 2x$ **(1 Mark)**

(d) Determine the following from your graph

(i) Amplitude of $y = 3\sin(2x + 30)$ **(1 Mark)**

(ii) Period of $y = 3\sin(2x + 30)$ **(1 Mark)**

(iii) Period of $y = \cos 2x$ **(1 Mark)**

19. The 2nd and 5th terms of an arithmetic progression are 8 and 17 respectively. The 2nd, 10th and 42nd terms of the A.P. form the first three terms of a geometric progression. Find:

(a) The 1st term and the common difference. **(3 Marks)**

b) The first three terms of the G.P and the 10th term of the G.P. **(4 Marks)**

(c) The sum of the first 10 terms of the G.P. **(3Marks)**

20. The probability of passing KCSE depends on the performance in the KCPE. If the candidate passes the KCPE, the probability of passing KCSE is $\frac{4}{5}$. If the candidate fails in the KCPE, the probability of passing KCSE is $\frac{3}{5}$. If a candidate passes KCSE the probability that he/she will get employed is $\frac{5}{8}$. If he/she fails KCSE the probability of getting employed is $\frac{1}{3}$. The probability of passing KCPE is $\frac{2}{3}$.

(a) Draw a well labelled tree diagram to represent the above information. **(2 Marks)**

(b) Using the tree diagram, find the probability that a candidate:-

(i) Passes the KCSE **(2 Marks)**

(ii) Gets employed **(2 Marks)**

(iii) Passes KCSE and get employed **(2 Marks)**

(iv) Passes KCPE and does not get employed **(2 Marks)**

21. The heights of 100 maize plants were measured to the nearest centimeter and the results recorded in the table shown below.

Height x (cm)	Frequency	d	d^2	fd	fd^2	cf
25 – 29	5			-15		5
30 – 34	12			-24		17
35 – 39	18	-1	1	-18		35
40 – 44	30	0	0	0		65
45 – 49	17	1	1			
50 – 54	11	2				
55 – 59	7	3				

(a) Complete the table **(2 Marks)**

(b) Calculate to 2 d.p.

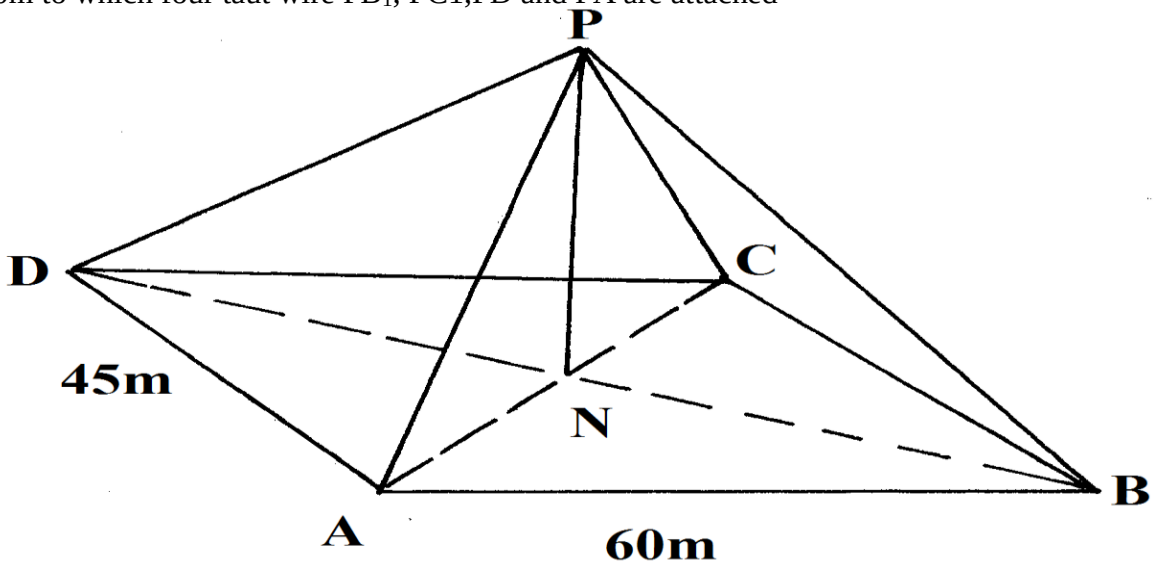
(i) The mean **(2 Marks)**

(ii) The standard deviation **(2 Marks)**

(c) Using the data above plot and give and use it to find the quartile deviation **(4 Marks)**

(graph provided)

22. The figure below shows rectangular plot ABCD with AB =60m and BC=45m. PN is a vertical pole of length 30m to which four taut wire PB_1, PC1,PD and PA are attached



Calculate

a) length of the projection of PCon the plane ABCD **(2mrks)**

b) the angle PC made with the base ABCD **(3mks)**

c) The angle between the planes PBC and ABCD **(3Mrks)**

d) If point A is to be the North of point C. calculate the bearing of B from A **(2mks)**

23. (a) Construct a parallelogram ABCD in which AB = 9cm, AD = 5cm and angle BAD = 60^0. Measure the length AC **(3 Marks)**

(a) Show the locus of point P which moves so that it is equidistant from A and C. **(1 Mark)**

(b) Show the locus of point Q which moves such that angle BQD = 90^0. **(2 Marks)**

(d) The position of point X such that AX ≥ XC and angle BXD = 90^0 **(2 Marks)**

(c) Shade the region inside the parallelogram such that AX≥XC and angle BXD ≥90^0 **(2 Marks)**

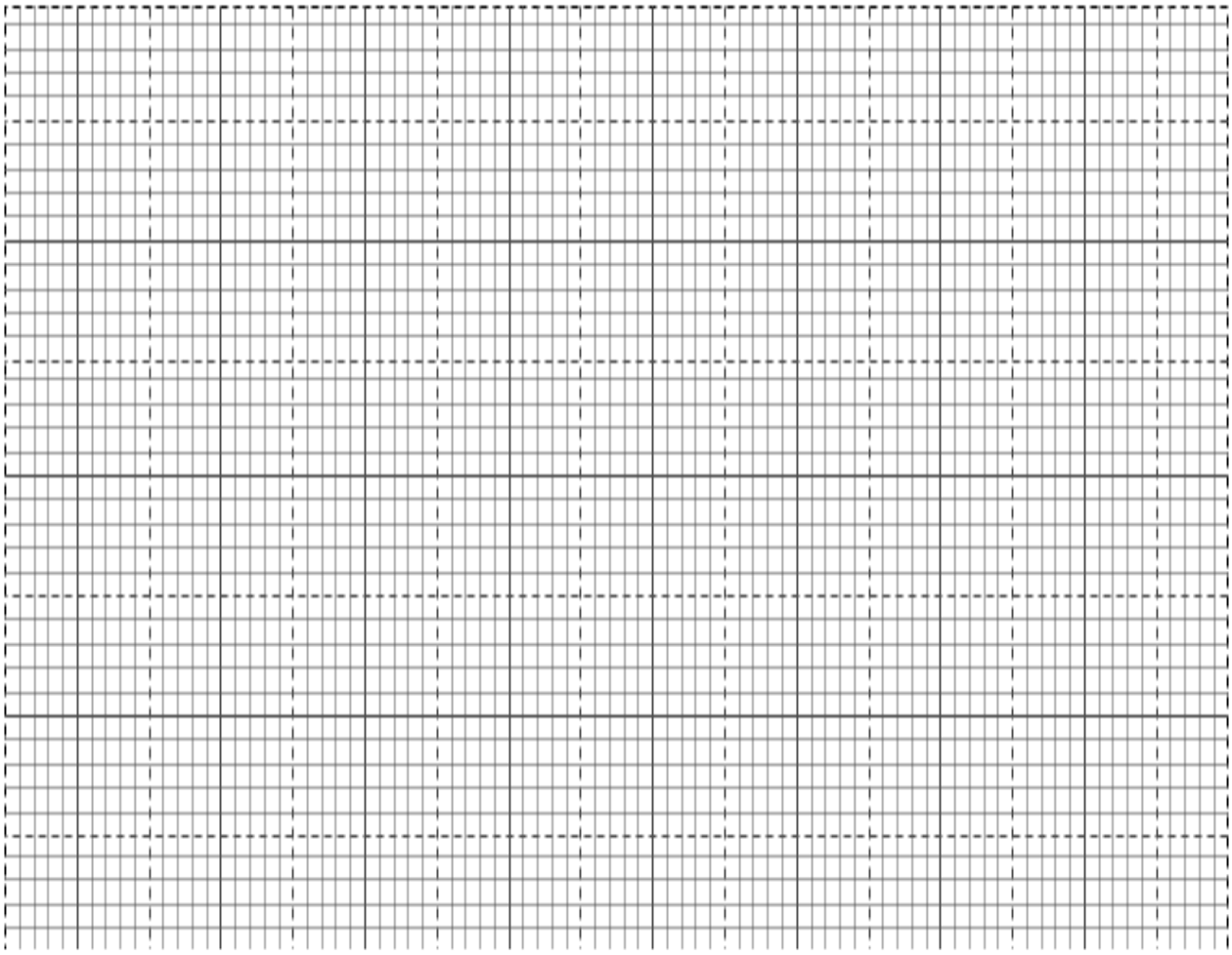
24. a) Draw ΔPQR whose vertices are P(1,1), Q(-3,2) and R(0,3) on the grid provided **(1 Mark)**

b) Find and draw the image P'Q'R', image of ΔPQR under the transformation whose matrix is $\begin{pmatrix} 3 & 0 \\ 1 & 1 \end{pmatrix}$ **(3 Marks)**

c) P'Q'R' is then transformed into P"Q" R" by the transformation of $\begin{pmatrix} -1 & 0 \\ 1 & 3 \end{pmatrix}$ matrix

Find the co-ordinates of P"Q" R" and draw the image **(3 Marks)**

d) Describe fully the single transformation which maps PQR onto P"Q" R". Find the matrix of this transformation **(3 Marks)**



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KCSE 2021 PREDICTION

NAME…… **INDEX NO…….**

SCHOOL…… **SIGN…….**

DATE……

101/1

ENGLISH

[Functional Skills]

1. FUNCTIONAL WRITING (20 MARKS)

You are the manager of **Bomet Transport Sacco**. Of late, you have realized that some of the workers, mainly drivers and conductors are no longer working as before, hence the company has got into loss.

(a) Write an internal memo to the workers, warning them of disciplinary actions if they do not change their behavior and attitude. Some of the areas you wish to address are; punctuality, lack of courtesy, bribery and any other relevant area. **(12 marks)**

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(b) Write a congratulatory note to Mr. Mark Otieno, a conductor who has recently been promoted to the post of a driver because of his exemplary performance. **(8 marks)**

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2. CLOZE TEST

Perhaps the best way to _____**1**_____ reading poetry responsively is not to allow yourself to be intimidated ____**2**_____ it. Come to it, initially at least, the way you might ____**3**_____ to a song several times before you ___**4**_____ it all, before you have a sense of how it works ___**5**_____ it's going and how it gets there. You don't worry about analyzing a song when you listen to it, even though after ___**6**_____ experiences with it you know and anticipate a favourite part and know, on some level, why it works for you. __**7**_____ yourself a chance to respond to poetry. The hardest work has already ___**8**_____ done by the poet, so all you need to do at the start __**9**_____ listen for the pleasure produced by ____**10**_____ poet's arrangement of words.

3. ORAL SKILLS (30 MARKS)

(a) ***Read the following riddling session and then answer the questions that follow.***

Challenger: Catch a riddle!
Respondent: I catch it!
Challenger: My coat changes colour with age and when unclothed, I feed you.
Respondent 1: A tree
Challenger: No
Respondent 2: A coconut?
Challenger: Still not correct. Try harder.
Respondent 3: Then we are beaten. Give us the answer.
Challenger: Only if you give me a reward.
Respondent 1: We give you Kijiji
Challenger: No. I will not take Kijiji. The people are as cold and unwelcoming as can be.
Respondent 2: We give you Mugunda with its entire fertile land and fat cattle.

Challenger: I went to Mugunda and the people of Mugunda asked me to greet you. Do you receive the greetings?

Respondents: Yes, we do.

Challenger: The answer is - - - banana.

(i) Identify the six stages of riddling cycle in this riddling session. **(6 marks)**

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(ii) What non-verbal cues would the challenger use in response to each offer of the prizes? **(2 marks)**

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(iii) How would you say the following statement? The answer is - - - banana **(2 marks)**

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(b) You speak to a group of form ones about an issue of concern and you notice during the talk that many of them are dozing, yawning, fidgeting and sitting carelessly. What would this mean to you? **(4 marks)**

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(c) Who and when would one do the following? **(2 marks)**

(i) Curtsy

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(ii) Bow

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(d) Provide another word that is identical in pronunciation to the underlined words in the sentences below. **(5 marks)**

(i) Why did the idle bridal party groan?

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(ii) The bear caught the whale.

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(e) Indicate the intonation in the following sentences **(3 marks)**

(i) Are you going to the meeting?

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(ii) Where is your friend?

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(iii) I saw him yesterday.

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(f) You are a member of a discussion group.

(i) Identify three ways through which you would know that it is your turn to speak.

(4 marks)

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(ii) How would you encourage the other person to continue talking in a conversation? **(2 marks)**

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KCSE 2021 PREDICTION

NAME…… **INDEX NO…….**

SCHOOL…… **SIGN…….**

DATE……

101/2

ENGLISH

Paper 2

(Comprehension, LiteraryAppreciation and Grammar)

2 ½ hours

Instruction to candidates

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

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

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

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

For Examiner's Use Only

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

KCSE Predictions Marking Schemes - **0707550000 / 0705525657**

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1. COMPREHENSION

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

Happiness arises largely from the mental qualities of contentment, confidence, serenity and active good-will. It includes the pain of losing as well as the pleasure of finding. It thrives best in a crowded life. The men and women who are recorded in history and biography as the most happy were with always somewhat to do than they could possibly do. Every waking hour of their lives was occupied with ambitious projects, literature, love, politics, science, friendship, commerce, professions, trades, their religious faith, and a thousand other matters. The secret of happiness may be found by making each of these interests count to its utmost as part of the fabric of life.

We need to avoid the extremes of sluggish placidity and feverish activity. we are not going to be satisfied with felicity which resembles that of a stone, unfeeling and unmoving, but will look back from future years with sorrow and regret if we run to and fro, giving it what Socrates called 'the itch'.

Happiness obviously includes two sorts of behavior: active and passive. We may say the active consists in searching and sharing, while the passive part is made up security and possession. Neither part is complete in itself, nor does neither yield full satisfaction if it is over-emphasized. Philosophers from the ancient Greeks to present day have been extolling a balanced life as the most happy life, and many unhappy people can, when they face the issue, trace their discontent to imbalance.

The recipe for happiness cannot be given in any single word, because its many virtues have to be combined in their proper quantities, at the proper times for proper purposes.

It is legitimate to seek happiness. We cannot help observing that while followers of some schools of thought are telling us to avoid seeking happiness; they intimate that if we do so we shall be happy.

The search requires a plan. We need to know what sort of happiness we seek, what the ingredients are, what our strongest wants are, and what we have to start with. We should train ourselves to keep the programme simple, and free from complications and side trips, to pay attention to little things to deflate

quickly after being praised and to bounce back quickly after disappointment, to seize to create opportunities to put our special abilities to work, to seek excellence in everything we do, to remain modest and to review and revise periodically.

Most of us do not really have to seek far and wide. Happiness grows at our fireside, if we cultivate it.

a) According to the writer, what is the source of happiness? **(2mks)**

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b) What two sorts of behavior does happiness include? **(2mks)**

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c) What does the writer mean when he talks about a balanced life? **(2 mks)**

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d) In a paragraph of about 30 words, summarize the things we must know as we search for happiness in paragraph one? **(4mks)**

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e) Explain the writer'smessage in the last paragraph of the passage. **(2mks)**

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f) The recipe for happiness cannot be given in any single word**.** **(1mk)**
(Rewrite the sentence beginning: No single word…)

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g) Identify and comment on the figure of speech used in the following as used in the passage: **(1mk)**

(i) *It (Happiness) thrives best in a crowded life*.

……

……

h) Describe the tone of this passage. **(2marks)**

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i) Explain the meaning of the following words as used in the passage. **(4mrks)**

(i) Extolling-

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(ii) Intimate-

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(iii) Felicity-

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(iv) Legitimate-

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QUESTION 2

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

Nora: It's a shame to say that. I do really save all I can.

Helmer: (laughing) That's very true, - all you can. But you can't save anything!

Nora: (smiling quietly and happily) You haven't any idea how many expenses we skylarks and squirrels have, Torvald.

Helmer: You are an odd little soul. Very like your father. You always find some new way of wheedling money out of me, and as soon as you have got it, it seems to melt in your hands. You never know where it has gone. Still, one must take you as you are. It is in the blood: for indeed it is true that you can inherit these things, Nora.

Nora: Ah, I wish I had inherited many of papa's qualities.

Helmer: And I would not wish you to be anything but just what you are, my little skylark. But do you know, it strikes me that you are looking-rather—what shall I say- rather uneasy today?

Nora: do I?

HELMER: You do, really. Look straight at me.

Nora :((looks at him) well?

Helmer: (wagging his finger at her) Hasn't Miss Sweet Tooth been breaking rules in town today?

Nora: No; what makes you think that?

Helmer: Hasn't she paid a visit to the confectioner's?

Nora: No, I assure you, Torvald-

Helmer: Not been nibbling sweets?

Nora: No, certainly not.

Helmer: Not even take a bite at a macaroon or two?

Nora: (going to the table on the right) I shouldn't think of going against your wishes.

Helmer: No, I am sure of that: besides, you gave me your word- (Going up to her) Keep your little Christmas secrets to yourself, my darling. They will be revealed tonight when the Christmas tree is lit, no doubt.

Nora: Did you remember to invite Doctor Rank?

Helmer: No. But there is no need; as a matter of course, he will come to dinner with us. However, I will ask him when he comes this morning. I have ordered some good wine. Nora, you can't think how I am looking forward to this evening.

Nora: So am I! And how the children will enjoy themselves, Torvald!

Helmer: It is splendid to feel that one has a perfectly a safe appointment, and a big enough income. It is Delightful to think of, isn't it?

Nora: It's wonderful!

1. Place this extract in its immediate context**.** **(4 marks)**

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2. Explain the dramatic irony in this extract **(3marks)**

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3. Helmer says here" it is splendid to feel that one has a perfectly safe appointment". What is he referring to? **(1mk)**

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4. What issues emerge in this extract? **(4 marks)**

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5. Identify and illustrate any two ways the playwright has used language to achieve foregrounding in this extract. **(4 marks)**

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6. What do we learn about the character of Nora in this extract. **(4 marks)**

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7. Imagine you are directing this play. Which quality would you look for in an actor to play the role of Torvald **(2 marks)**

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8. Explain the meaning of the following expressions as used in the extract? **(3 marks)**

i. Wheedling money out of me

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ii. Confectioner's

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iii. you gave me your word

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3. *Read the song below and then answer the questions that follow*.

Soloist : Greetings to you comrade warriors.

Others: Greetings!

Soloist: Do you know or you do not know me?

Others: We do not know you?

Soloist : I know you know me not

For I am he who is known as Ole Pare who wears a loose ring

And who owns stout steers and a healthy herd.

That bears in the months of plenty.

That are over-weight by fat.

Others: Yes it is him indeed!

Soloist : He that owns heifers with large stomachs.

For whom the meadow is insufficient but who gets stuffed at the valleys.

Where cow bells are removed[1]

As they are grazed together with those of the king's

Others: It is him!

Soloist: I have the blue one with the horn.

Whose beauty resists branding.

Who leads the large herd of Kilapa[2]

Whose numbers pose difficulty when moving homes.

From NaomKipury, Oral literature of the Maasai

Notes: 1. To prevent them from being discovered.

2. Name of a cow.

(a) In which category would you place this song? Give a reason for your answer. **(2marks)**

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(b) Describe the character trait of Ole pare depicted from th4e piece. **(2marks)**

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(c) Explain **two** political aspects of the people from who the song is sourced. **(4marks)**

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(d) The soloist seems to be rich. Cite his possessions. **(2marks)**

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(e) Discuss **one** theme evident in the song. **(3marks)**

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(f) If you have gone for fieldwork to collect the above oral narrative:

i. Highlight **three** of its aspects you would analyse. **(3marks)**

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ii. Mention **three** methods you would use in its collection. **(3marks)**

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……

(g) I know you know me not **(1mk)**

End: …me

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4. GRAMMAR

1. Fill in the blank with the appropriate complex preposition. (1mk)

---------- FGM that was administered to Taiyo, she still made it to Egerton University.

2. Using a participle, combine each of the following into one sentence. (2mks)

a.) The parents talked to the students. They discovered that the students were focused on their studies.

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b) The students were tired after the match. They went straight to the dormitory.

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3. Rewrite the sentences below replacing the underlined word with a phrasal verb. (4mks)

i) The government has <u>abolished</u> certain taxes.

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……

ii) He <u>stole</u> the money from the till.

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iii) Kwame was eagerly <u>awaiting</u> his holiday to the Bahamas.

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iv) We cannot solve problems by <u>avoiding</u> them.

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……

4. Fill the blanks in the following sentences with the missing part of the idiom whose meaning is given in brackets. (2mks)

a) This dress cost me an arm and a ----------. (expensive)

b) She was considered a gold ---------- when she married the president's son. (opportunist)

5. Rewrite the following sentences according to the instructions given after each. (3mks)

a) We shall never again fall for their lies. (Begin: Never ----------)

……

……

b) It is late but you must leave. (Begin: Late ----------)

……

……

c) The old man was so sick that he could not walk. (Begin: So ----------)

……

……

6. Explain the difference in meaning between the following sentences. **(2mks)**

i) My brother who lives in Sidney came to see me last month.

……

……

ii) My brother, who lives in Sidney, came to see me last month.

……

……

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101/3

ENGLISH

(CREATIVE COMPOSITION and ESSAYS BASED on SET TEXTS)

PAPER 3

TIME: 2 ½ HOUR

INSTRUCTIONS TO THE CANDIDATES

- ***a.*** *Answer **three** questions only*
- ***b.*** *Questions **one** and **two** are compulsory.*
- ***c.*** *In question **three** choose **only one** of the optional texts, for which you have been prepared.*
- ***d.*** *Where a candidate presents work on more than one optional text, only the first to appear will be marked*
- ***e.*** *Each of your essays must not exceed **450** words*

This paper consists of 2 printed pages.

Candidates should check the question paper to ascertain all the pages are printed as indicated

And no questions are missing.

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Q. 1 Imaginative composition

Either:

a) Write a composition beginning:

A thick blanket of darkness had abruptly covered the little light left of that memorable evening**……**

(20mks)

OR

b) Enhanced regional integration comes with various benefits to the citizens of the countries that make up such blocs. With special reference to the East African Community, write a composition detailing the benefits that accrue from such organizations. **(20mks)**

Q. 2 The Compulsory Set Text

Ole Kulet: ***Blossoms of the Savannah***

When misfortune strikes and we are in distress, we sometimes get salvation from unexpected quarters. It is the kindness and selflessness of other people that keeps us going. Referring to Resian in the text, write a composition showing how this is true. **(20 marks)**

Q 3. The Optional Set Texts

Answer any ONE of the following three questions.

Either:

(a) The Short story:

Chris Wanjala Ed: <u>Memories we Lost and other Stories</u>

Number 7 is a reflection of some of the strange behaviors or eccentric ways of human beings. Using relevant illustrations from the story **The Umbrella Man** *by Siddhartha Gigoo*, write a story is support of this statement. **(20mks)**

OR

(b) Drama

Mulwa, David: <u>*Inheritance*</u>

A people bound by the same chains of oppression and suffering may either take up arms in a bloody resistance or stage a peaceful bloodless revolution.

Discuss the relevance of the above statement basing your answer on the play **<u>Inheritance.</u>** **(20 mks)**

OR

(c) The Novel

<u>Steinbeck, John: *The Pearl*</u>

"All that glitters is not gold." Write an essay in support of this, drawing your illustrations from the novel.

(20 marks)

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KISWAHILI

102/1

KARATASI YA KWANZA

Muda: Saa 1 ¾

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) *Andika insha* ***mbili****. Insha ya kwanza ni ya* ***Lazima***

d) *Kisha chagua insha nyingine moja kati ya hizo tatu zilizobakia*

e) *Kila insha isipungue maneno* ***400.***

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

Kwa matumizi ya matahini pekee

Swali	Upeo	Alama
1	20	
2	20	
Jumla	40	

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MASWALI

1. Lazima

Wewe ni mhariri wa Gazeti la mwanzo mpya. Andika Tahariri kuhusu umuhimu wa vyama vya wanafunzi shuleni. **(alama 20)**

2. Uhuru unaopewa Vijana leo katika nchi yetu una hasara nyingi kuliko faida. Jadili.

(alama 20)

3. Andika insha itakayodhihirisha maana ya methali ifuatayo: Adhihakiye kovu hajaona jeraha.

(alama 20)

4. Andika kisa kitakachoanza kwa maneno haya: Nilisimama kama ilivyotuamuru sauti nzito ya kutisha,huku nikijikuta na kujawa mawazo tete ya kuhamia sehemu nisiyoifahamu**…..**

(alama 20)

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102/2

KISWAHILI

Karatasi ya 2

LUGHA

Muda: Saa 2 ½

Maagizo

i. *Andika jina lako na Nambari yako katika nafasi ulizoachiwa hapo juu.*

ii. *Weka sahihi yako kisha tarehe ya mtihani katika nafasi ulizoachiwa*

iii. *Jibu maswali yote.*

iv. *Majibu yaandikwe katika nafasi zilizoachwa wazi katika kijitabu hiki cha maswali*

Kwa Matumizi ya Mtahini Pekee

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

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1. UFAHAMU: (Alama 15)

Soma kifungu kifuatacho kisha ujibu maswali.

Gari lake kuukuu lilikuwa linapambana na barabara yenye mashimo yaliyoshiba na kutapika maji ya mvua ambayo sasa ilikuwa inaanza kupusa. Japo daima alipambana na usukani kunako mashimo haya barabara iliyosakafishwa nayo ikahitimu? Magurudumu haya yaliyong'ara kama upara wa shaibu aliyekula chumvii hadi ikamwogopa yangetii uelekezi wake? Mara ngapi gari hili limetaka kumwasi barabarani? Haya yalikuwa baadhi ya maswali yaliyompitikia akilini. Hakujitakilifu kutaka **kuyapa mji** maana mara ile mawazo yake yalitekwa na kubwagwa katika nchi ya mbali – nchi ambayo sasa aliiona kama sinema akilini mwake.

Alipofika nyumbani aliliegesha gari lake na kufululiza ndani. Siku mbili zilikuwa zimepita akiwa pale kazini. Madaktari kama yeye hawakuwa wengi. Alikuwa miongoni mwa madaktari wenye ujuzi katika hospitali hii ya kitaifa. Wenzake wengi walikuwa wamehamia ughaibuni walikokwenda kutafuta maisha. Mshahara wao wa mkia wa mbuzi uliwasukuma na kuwatema nje ya nchi yao. Wengi wa waliohamia ng'ambo waliona vigumu kubaki katika ajira ambayo kivuno chake kilishindwa kumvusha mtu hata nusu ya kwanza ya mwezi. Malalamishi ya kulilia ujira wa heshima yaligonga kwenye masikio yaliyotiwa zege. Na kweli wanavyosema, mwenye macho haambiwi tazama. Basi walitazama hapana pale wakaona penye mianya ya matumaini,nao wakaiandama.

Hadi leo hii hamna la mno lililofanyika. Ndiyo maana Daktari Tabibu anarudi nyumbani tangu kuingia kazini hiyo juzi alfajiri. Hafanyi kwa kuwa katosheka,maana pia yeye an dukuduku. Ana shaka ya

mustakabali wake ikiwa mazingira ni haya kumsoza,maana umri nao unazidi kumla. Japo anatia na kutoa,mizani ya hesabu yake imeasi ulinganifu.

Daktari Tabibu ni mfungwa. Ametekwa na kuzuiwa kwenye kipenda na kuchukia mambo. Ni kama mti uliodumaa. Anatami barabara nzuri lami. Anatamani mshabara wa kumwezesha kukidhi mahitaji yake ya kutimiza majukumu yake ya kimsingi. Jana amesema na rafiki yake aliye ng'ambo kwa simu ambayo sasa imetulia mkabala naye. Ingawa mwenzake huyu alikuwa mchangamfu na kumdokolea hali ya maisha ya kuridhisha kule ugenini kama vile wanataaluma kuenziwa,yapo vilevile yaliyomtia unyonge moyoni. Upweke ndio ulimtia **fukuto** kuu. Licha ya hela zote hizo za kupigiwa mfano,watu hawana muda wa kutembeleana nakujuliana hali au hata kukutana tu mkahawani wakashiriki mlo. Eti ni kila mtu na hamsini zake. Halafu ipo changamoto ya hali ya hewa. Baridi ya ng'ambo haifanyi mzaha katika kumtafuna mtu. Ni hali tofauti na ile aliyoizoea.

Daktari Tabibu alizitia kauli za rafiki yake kwenye mizani ya moyo wake. Akawaza ikiwa kweli si bora kulemazwa na mzizio ugenini badala ya kuishi katika kinamasi cha kuumbuliwa nyubani. Kisha punde lilimjia wazo la marehemu nyanyake na wengine kama yeye waliofadhili masomo yake kupitia kwa serikali ya njia ya kodi. Je si usaliti huu?Vipi aikimbie nchi kabla ya kuihudumia ilhali imemjenga hadi kuwa daktari? Na je wafanyakazi wake wa nyumbani watakwenda wapi? Atawaambiaje kuwa sasa hahitaji huduma zao kwa kuwa anakimbia nchi yake?

Mawazo yake yalikatizwa na simu iliyolia na kumshtua. Alipoitazama aliiona imeng'ara kwa mwangaza ulioweka wazi jina la mpigaji. Alifahamu kuwa leo hii tena dharura nyingine ilikuwa inamwalika hospitalini. Hapo ndipo alipoiinua ile simu tayari kusema na mwenzake upande wa pili.

"Haloo!" sauti nyororo kutoka upande wa pili iliita.

"haloo!"

"Naam!Dharura nyingine tena daktari. Unaombwa kuokoa maisha mengine tena!"

"Haya. Ila mwanzo nitahitaji kujimwagia maji," na pale pale akaikata ile simu.

Daktari Tabibu aliingia hamamuni huku kajifunga taulo kiunoni tayari kuoga. Aliyafungulia maji lakini ule mfereji uligoma kutapika maji. Ulikuwa umekauka kabisa. Daktari Tabibu aliduwaa pale. Aliufunga ule mfereji kabla ya kuiaga bafu.

Maswali

(a). Eleza sababu nne zinazowafanya wataalamu kuhamia nchi za nje. **(Alama 4)**

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(b). "Hakuna masika yasiyokuwa na mbu" Thibitisha kauli hii kwa kurejelea hali ya waliohamia ng;ambo. **(Alama 3)**

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c). Fafanua athari tatu zinazoikumba nchi ya msimulizi kutokana na uhamiaji ng'ambo wa wataalamu **(alama3)**

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(d). Eleza mchango wa teknolojia kwa kurejelea kifungu. **(Alama 3)**

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(e). Eleza maana za msamiati ufuato kulingan na taarifa. **(Alama 2)**

(i). Kuyapa mji

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(ii). Fukuto

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2. UFUPISHO (Alama 15)

Wakenya walipolipata katiba mpya waliidhinisha mfumo wa ugatuzi. Katika mfumo huu,mamlaka ya serikali kuu katika uongozi,usimamizi na utumiaji wa rasilimali za nchi hupunguzwa. Kiasi Fulani cha mamlaka hutwaliwa na maeneo ya ugatuzi. Suala hili halikuzingatiwa katika katiba ya awali ambapo mamlaka yote yalikuwa mikononi mwa serikali kuu. Kutokana na upana na wingi wa maeneo,iliiwia vigumu serikali kuu kuhakikisha kwamba kulikuwa na usawa wa kimaendeleo katika sehemu nchini.

Kwa mujibu wa katiba mpya,serikali kuu haina budi kuyasidia maeneo yote ya ugatuzi ili yaweze kujinyanyua kiuchumi na kuboresha hali za maisha za wakazi wake. Vilevile ni jukumu la kila eneo la

ugatuzi kuweka mikakati madhubuti ili kuchunguza na kubainisha rasilimali zote katika maeneo husika. Hili litasaidia kufumba rasilimali ambazo zinaweza kuchangia katika ustawishaji wa maeneo haya. Maeneo haya pia yanatakiwa kutafuta mbinu zitakazofanikisha uzalishaji na utumiaji wa rasilimali hizi kwa njia endelevu. Mojawapo ya mbinu hizi ni uongezaji thamani katika rasilimali yoyote inayozalisha kwenye eneo mahususi.

Maeneo mengi ya ugatuzi nchini humu yanategemea kilimo cha ufugaji kama mhimili wa uchumi. Licha wenyeji kikamilifu. Aghalabu kuwa nguzo,kilimo hiki hakijawahi kupigiwa darubini vizuri kwa lengo la kukiimarisha ili kiwanufaishe wenjeji kikamilifu. Aghalabu wafugaji wengi huandama mbinu za jadi za ufugaji ambazo haziwahakikishii ongezeko la mapato. Isitoshe,wafugaji hawa wanakabiliwa na tatizo katika soko la mifugo ambapo wengi hupunjwa na matapeli. Pamoja na haya,baadhi ya wakazi huuza mifugo nje ya nchi wakiwa wazimawazima bila kuwazia matokeo ya kitendo hiki. Si ajabu kuwaona ng'ombe, ngamia,mbuzi, na kondoo wakipakiwa kwenye malori na kusafirishwa nje ya nchi. Ukweli ni kwamba jambo hili ni hatari sana,si kwa uchumi wa maeneo husika tu,bali pia kwa Kenya kwa jumla . Hii ni kwa kuwa walionunua mifugo wazimawazima wanaweza kuhiari kutowachinja na badala yake kuwatumia kama mbegu kwani baada ya muda huenda wanaonunu mifugo wakijitosheleza na kukosa kununua mifugo wengine. Hali ikiwa hivyo, maeneo yaliyotegemea soko hili huenda yakalipoteza taratibu,na bila shaka kupoteza natija inayotokana na soko lenyewe

Ili kudhibitisha hali hii,itakuwa bora ikiwa viwanda vya kuchinjia mifugo na kupakia nyama vitajengwa katika maeneo haya ya ugatuzi. Hili litawawezesha wakazi kuuza nyama badala ya kuuza mifugo wazimawazima. Fauka ya hayo maeneo haya yatajikinga dhidi ya kupoteza bidhaa

zinazotokana na mifugo. Hizi ni kama vile ngozi, kwato na pembe ambazo bila shaka zina natija kuu. Ngozi kwa mfano,ni bidhaa muhimu sana katika sekta ya utengenezaji wa mavazi na mifuko. Viwanda vinavyotumia ngozi kama malighafi vikijengwa katika maeneo haya,wakazi wake watanufaika si haba. Madhalani,viwanda vya kutengenezea viatu,mishipi,mifuko na nguo vikianzishwa,wawekezaji watalazimika kuanzisha viwanda vingine tegemezi. Kathalika,ni dhahiri kwamba bidhaa zinazotokana na ngozi huhitaji kutiwa nakshi. Kuanzishwa kwa viwanda hivi basi kutazua haja ya kuanzishwa kwa viwanda vingine vya kutengeneza rangi,pamoja na maduka ya kuuza bidhaa zenyewe. Isitoshe,gundi ya kugandisha bidhaa hizi itahitajika,hivyo kusababisha haja ya kuanzishwa kwa kiwanda cha gundi. Matokeo ya shughuli hizi zote ni kuzalishwa kwa nafasi anuwaiza kazi kwa wakazi. Hili litakuwa na matokeo zaidi chanya,hususan kwa vijana. Badala ya kushiriki ulevi na burudani zinazowahatarisha, wataweza kumjitafutia riziki katika viwanda hivi.

Juu ya hayo,mfumo wa ugatuzi utayaweza maeneo husika kuongeza thamani,utoaji wa huduma za kijamii na kuitawala kulingana na mahitaji ya maeneo haya. Ni muhimu hata hivyo kuzingatia kwamba kila eneo laugatuzi lina upekee wake,navyo vipaumbele hutofautiana kulingana na maeneo. Kuna yale ambayo yatasisitiza usalama, mengine ujezi na uimirishaji wa miundomusingi kama vile barabara,vituo vya afya na hata taasizi za elimu. La muhimu ni wakazi wa maeneo husika kubainisha ni lipi litatekelezwa kwanza.

Kinga na kinga ndipo moto uwakapo. Kufanikiwa kwa mfumo wa ugatuzi kutategemea juhudi za kila mkazi wa eneo husika. Ni muhimu kila mkazi kujiona kuwa mmiliki wa eneo zima la ugatuzi na

kuwajibika katika kuliendeleza kwa hali na mali. Uwajibikaji huu unajumuisha uteuzi wa viongozi wenye muono mzuri na mabao utawawezesha kuyafikia malengo yao ya kimaendeleo.

Hakika,mustakabali na uwepo wa eneo la ugatuzi utakuwa zao la mamuzi ya wanaeneo. Vilevile ufanisi wa maeneo ya ugatuzi utakuwa msingi wa ufanisi wa taifa kwa jumla.

(a). Fupisha ujumbe wa aya tatu za mwanzo kwa maneno 85-90 **(alama 8,1 mtiririko Mtayarisho)**

Matayarisho

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Jibu

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b) Kwa kutumia maneno 75-80, bainisha masuala ambayo mwandishi anaibua katika aya tatu za mwisho. (alama 7,1 mtiririko) **(Alama 8)**

Matayarisho

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Jibu

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3. MATUMIZI YA LUGHA(Alama 40)

a. Andika sifa mbili mbili za sauti zifuatazo. **(alama 2)**

(i). /e/

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(ii). /ch/

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……

……

b). Unda maneno yenye muundo ufuatao wa sauti. **(Alama 2)**

KIKIKI……

……

IKKI……

……

c). Onyesha miundo miwili ya nomino katika ngeli ya U-ZI **(alama 2)**

……

……

d). Tunga sentensi moja moja kuonyesha matumizi ya viakifishi vifuatavyo. **(alama.2)**

i). Vifungo ……

……

ii). Kibainishi……

……

e). Bainisha aina za virai vilivyopigiwa mstari **(alama 2)**

Mhadhara huo tata ulitolewa jana jioni.

……

……

f). Andika sentensi ifuatayo katika ukubwa. **(Alama 2)**

Ndege hao wana manyoya mengi

……

……

g). Andika visawe vya maneno yafuatayo. **(Alama 2)**

i). Doa……

……

ii). Omba**……**

……

(h) Tunga sentensi moja kutofautisha maana ya riti na ridhi **(Alama 2)**

……

……

i). Bainisha silabi katika neno **(Alama 1)**

Wanyweshavyo

……

……

j). Bainisha kiima na chagizo katika sentensi ifuatayo **(alama.2)**

Mwenyewe alikipenda kwa dhati

……

……

k). Tumia kielezi cha kiasi badala ya kile kilichopigiwa mstari. **(alama.2)**

Msichana yule alizungumza <u>kitausi.</u>

……

……

l). Geuza sentensi ifuatayo katika usemi halisi **(alama.2)**

safina alimwambia Asha kuwa angetembelea wazazi wao siku hiyo jioni.

……

……

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m). Changanua sentensi ifuatayo kwa kielelezo cha matawi **(Alama 3)**

Mvua kubwa inayonyesha itasababisha mafuriko.

……

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……

n). Kanusha sentensi ifuatayo kwa wakati ujao hali ya kuendelea **(Alama 2)**

Walimu wanafunza

……

……

o). Andika upya setensi ifuatayo wa kuzingatia kauli iliyowekwa katika mabano **(Alama 2)**

yeye ni bahili itakuwa vigumu kumkopesha pesa. (kutendesheka)

……

……

(p) Tunga sentensi mbili kuonyesha matumizi mawili tofauti ya 'na' **(alama 2)**

……

……

……

……

q). Andika sentensi ifuatayo upya ukianzia yambwa tendewa **(alama.2)**

kirwa alimjengea mama huyo nyumba kwa mawe

……

……

r). Ainisha vishazi katika sentesi ifuatayo. **(alama 2)**

ingawa alitia bidi masomoni,alifeli mtihani.

……

……

s). Andika sentensi upya ukitumia vinyume vya maneno yaliyopigiwa mstari. **(Alama 2)**

Mama <u>alijitwika</u> kikapu mgongoni baada ya <u>kuinjika</u> chungu mekoni.

……

……

t). Andika sentensi zifuatazo upya kwa kufuata maagizo uliyopewa.

i). umekuja **(alama 2)**

ii) Tumefurahi sana (unganisha sentensi hizi kwa kuanza na kuja…….)

……

……

……

……

ISIMU JAMII (Alama 10)

"Mwite mhandisi aukarabati mtambo huo"

(a). Taja sajili inayorejelewa hapo juu. **(Alama 2)**

……

……

(b). Fafanua sifa zozote nne za sajili uliyoichagua **(Alama 8)**

……

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KCSE 2021 PREDICTION

NAME…… **INDEX NO…….**

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102/3

KISWAHILI

Karatasi ya TATU
FASIHI

Maagizo

a) *Andika jina lako, shule na nambari yako ya mtihani katika nafasi ulizoachiwa hapo juu.*
b) *Jibu maswali manne pekee.*
c) *Swali la* ***kwanza*** *ni la lazima.*
d) *Maswali hayo mengine yachaguliwe kutoka sehemu nne zilizobaki ; yaani ;* ***Tamthilia, Riwaya, Hadithi fupi na Fasihi Simulizi.***
e) *Usijibu maswali mawili kutoka sehemu moja*

Kwa matumizi ya mtahini pekee

Swali	**Upeo**	**Alama**
1	20	
2	20	
3	20	
4	20	
Jumla	**80**	

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SWALI LA KWANZA, SWALI LA LAZIMA

SEHEMU YA A: USHAIRI- (Alama 20)

Niokoa muokozi, uniondolee mashaka

Kuyatukua siwezi, mjayo nimedhikika

Nimekitiri simanzi,ni katika kuudhika

Mja wako nasumbuka,nipate niyatakayo

Mja wako nasumbuka,nataka kwao afua

Nirehemu kwa haraka,nami nipate pumua

Naomba hisikitika,na mikono hiinua

Mtenda ndiwe moliwa,nipate niyatakayo

Mtenda ndiwe moliwa,we ndiwe mola wa anga

Mazito kuyaondoa,pamoja na kuyatenga

Ukauepusha ukiwa,ya pingu zilonifunya

Nikundulia muwanga,nipate niyatakayo

Nikundulia muwanga,nipate toka kizani

Na huzuni n'ondolea,itoke kwangu moyoni

Mambo mema niegheshea,maovu nisitamani

Nitendea wa manani,nipate niyatakayo

Igeuze yangunia,dhaifu unipe mema

Nili katika dunia,kwa afia na uzima

Moliwa nitimizia,yatimize yawe mema

Nifurahike mtima,nipate niyatakayo.

Maswali

(a). Eleza bahari zozote mbili za shairi hili **(alama 4)**

(**b).** Eleza muundo wa shairi hili **(Alama 4)**

(c). Mshairi ametumia uhuru wake wa utunzi. Eleza mifano minne huku ukitoa mifano **(alama 4)**

(d). Andika ubeti wa pili katika lugha tutumbi **(alama 4)**

(e). Fafanua dhamira ya mtunzi wa shairi hili **(alama.2)**

(f). Eleza maana ya misamiati ifuatayo kama ilivyotumika katika shairi **(alama 2)**

(i). Nimedhihika

(ii). Nifurahike mtima

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SEHEMU B: RIWAYA – ASSUMPTAMATEI - CHOZI LA HERI

2. Haki za watoto hazitiliwi maanane katika jamii nyingi za kiafrika. Eleza ukweli wa kauli hii kwa kurejelea Riwaya ya chozi la heri **(Alama 20)**

AU

3. "Kuukata mkono niliostahili kuubusu yalinifika ya kunifika" **(Alama 20)**

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

b. Eleza namna msemaji alivyoukata mkono aliostahili kuuibusu. **(alama 6)**

(alama 14)

c. Eleza tamathali ya usemi unaojitokeza katika dondoo hili. **(alama.2)**

d. Fafanua sifa nne za msemaji wa kauli hii **(alama 8)**

SEHEMU C: TATHILIA KIGOGO NA PAULINE KEA

4. ''Na hawa wafadhili wao nao lazima wavunje kambi zao. Sagamoyo twajiweza''

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

b. Kwa kutolea mifano saba kwenye tamthilia eleza jinsi kauli hii ''Sagamoyo twajiweza'' ni kinaya ?

(alama 14)

c. Mbali na kinaya tambua mbinu nyingine ya kisanaa katika dondoo hili **(alama 2)**

AU

5. Jadili mbinu wanazotumia wanasagamoyo kujikomboa kutoka utawala dhalimu wa Majoka

(Alama 20)

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SEHEMU D: HADITHI FUPI - TUMBO LISILOSHIBA

6. "… Ningeondoka…..mapema niende niibe au niue ili niwe mtu wa maana"

a) Eleza muktadha wa maneno haya **(Alama 4)**

b) Onyesha vile Kinaya kinavyojitokeza katika dondoo hili **(Alama 2)**

c) ''Kinaya kimetumika kwingine katika hadithi husika. Thibitisha kwa kutumia hoja tisa

(Alama 9)

d). Eleza umuhimu wa msemaji katika hadithi hii **(alama.5)**

AU

7. (a). Eleza namna maudhui ya ndoa yalivyosawiriwa katika hadithi ya Masharti ya Kisasa**(alama 13)**

(b). Kwa kurejelea hadithi ya Shibe inatumaliza,eleza namna maudhui ya ufisadi yanavyojitokeza

(alama 7)

SEHEMU E: FASIHI SIMULIZI

8 (a) Miviga ni nini? **(Alama 2)**

(b) Fafanua sifa sita za miviga **(Alama 6)**

(c) Kwa nini jamii huthamini miviga **(Alama 8)**

(d). Onyesha udhaifu unaohusishwa na miviga **(Alama 4)**

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231/1

BIOLOGY

Paper 1

Time: 2 Hours.

Instructions

1. *Write your name, Index Number and School in the spaces provided above.*
2. *Sign and write the date of the examination in the spaces provided above.*
3. *Answer all the questions in the spaces provided.*
4. *Additional pages must not be inserted.*
5. *Check the question paper to ascertain that all the pages are printed and that no questions are missing.*

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Question	Maximum Score	Candidate's Score
1-27	80	

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1. State the function of the diaphragm in a light microscope. **(1mark)**

……

……

2. State the function of the following cell organelles

a.) Centriole **(1mark)**

……

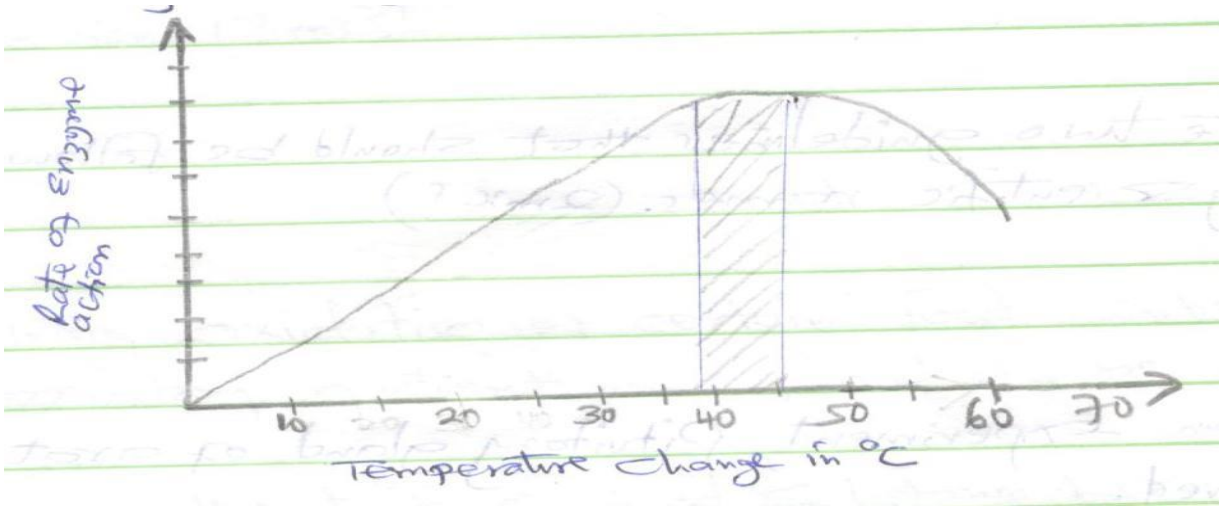
……

b.) Golgi bodies **(1mark)**

……

……

3. Study the graph below.



Account for the rate of reaction at:

i.) 10^{O} C **(2marks)**

……

……

……

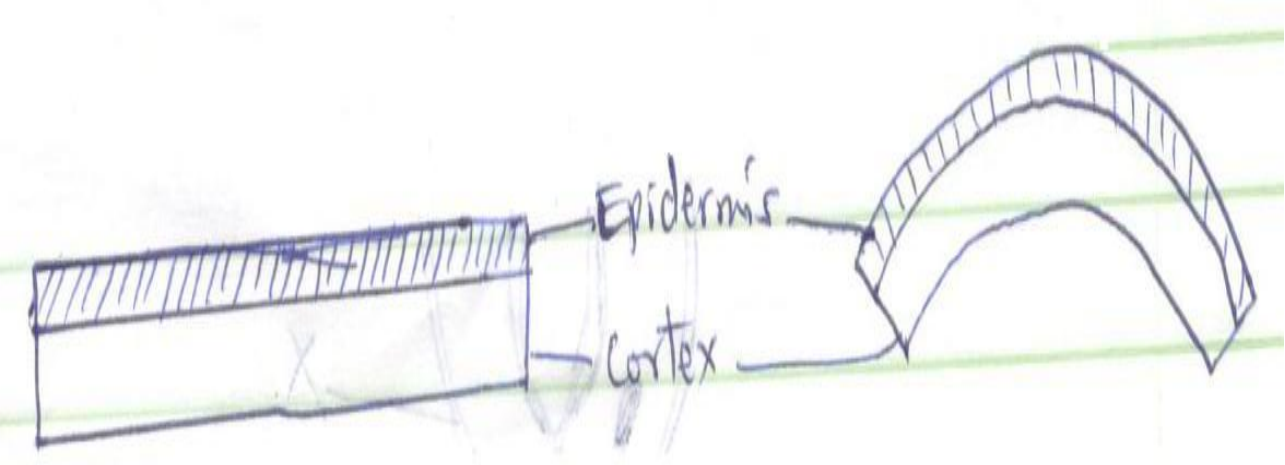
ii.) 50^{O} C **(2marks)**

……

……

……

4. Strips were cut lengthwise from the stem of a herbaceous plant and placed in a salt solution for 30 minutes as shown below.



Account for the results obtained when the strip was placed in the salt solution.

(4marks)

……

……

……

……

……

……

5. **(i)** Name the main products of the dark stage of photosynthesis. **(1mark)**

……

……

……

(ii) State the importance of chlorophyll in photosynthesis. **(1mark)**

……

……

……

6. State the two guidelines that should be followed when typing scientific names. **(2marks)**

……

……

……

7. In an experiment, Pituitary gland of a rat was removed.

a.) State the effect this will have on the quantity of urine produced by the rat. **(1 mark)**

……

……

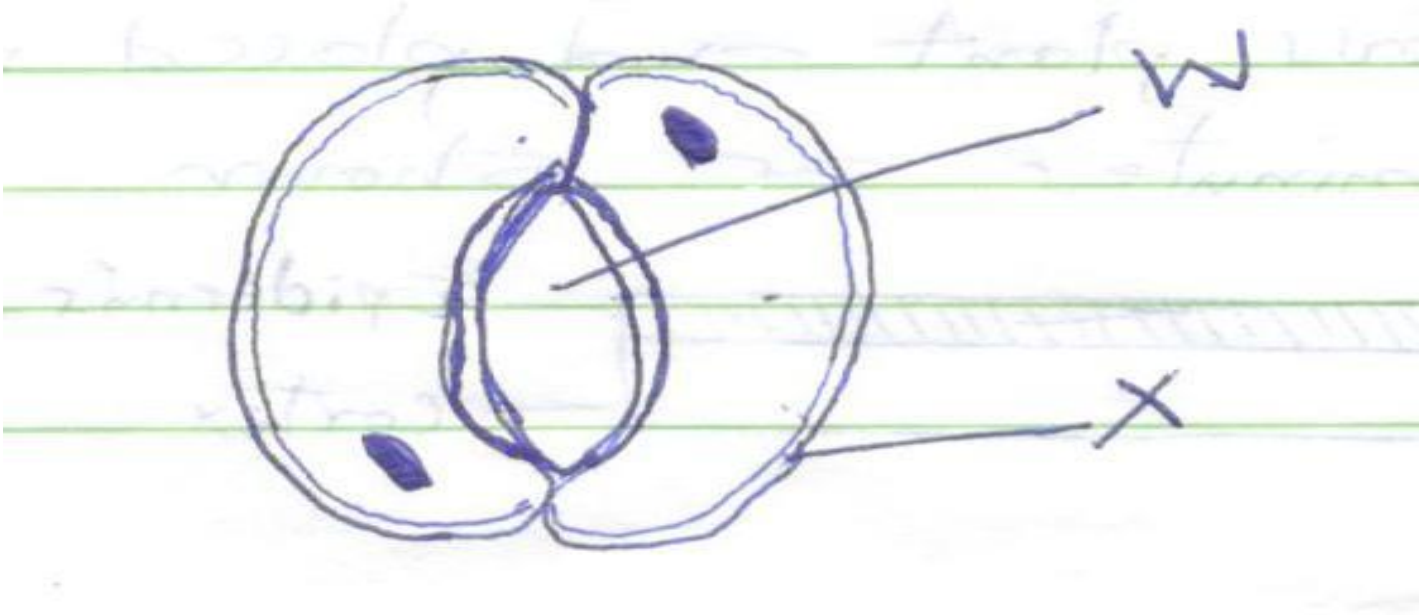
……

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

……

……

8. The diagram below shows part of a plant.



a.) Name the cell labelled X and part labelled W. **(2marks)**

X ……

W ……..……...…….

b.) State two adaptations of cell labeled X to its function **(2marks)**

……

……

……

9. Explain why a baby loses more heat per unit weight than an adult when exposed to the same environmental conditions. **(2marks)**

……

……

10. During oxidation of certain food substances, the respiratory quotient was found to be 0.718.

i) Name the type of food substance being oxidized. **(1mark)**

……..

ii) State two advantages of using the food substances named. **(2marks)**

……

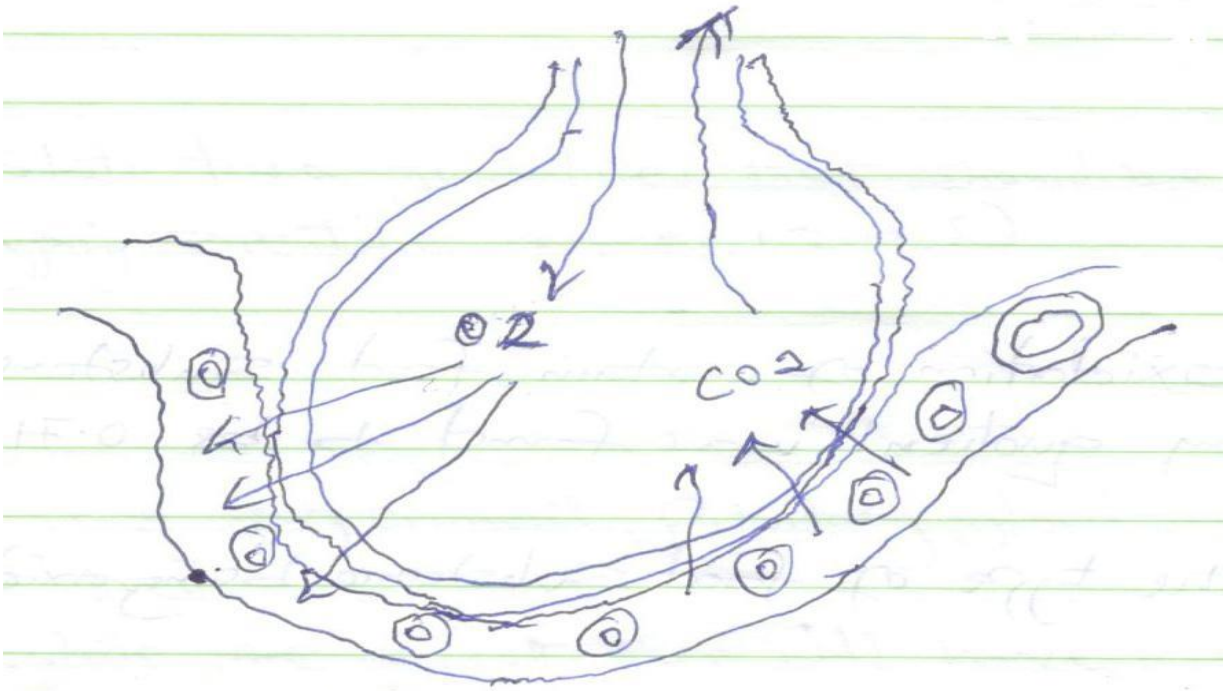
……

11. Name two structures used for gaseous exchange in plants. **(2marks)**

……

……

12. The diagram below shows the exchange of gases in alveolus.



a) State how the alveoli are adapted for their function. **(3marks)**

……

……

……

……

b) Name the cell labeled A **(1mark)**

……

……

13. During germination and early growth, the weight of the endosperm decreases while that of the embryo increases. Explain **(2marks)**

……

……

……

……

14. a) What is the importance of metamorphosis? **(1mark)**

……

……

b) Give an example of insect that undergoes :

i) complete metamorphosis **(1mark)**

……

……

ii) incomplete metamorphosis **(1mark)**

……

……

15. Define the following terms used in ecology

i) biosphere **(1mark)**

……

……

ii) population **(1mark)**

……

……

iii) synecology **(1mark)**

……

……

iv) carrying capacity **(1 mark)**

……

……

16. 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.

(1mark)

……

……

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

……

……

c.) Give two examples of vestigial organs in man. **(1 mark)**

……

……

17. a.) Define polyploidy **(1 mark)**

……

……

b.) Name three disorders resulting from gene mutations. **(3marks)**

……

……

……

……

18. State the importance of sexual reproduction. **(2marks)**

……

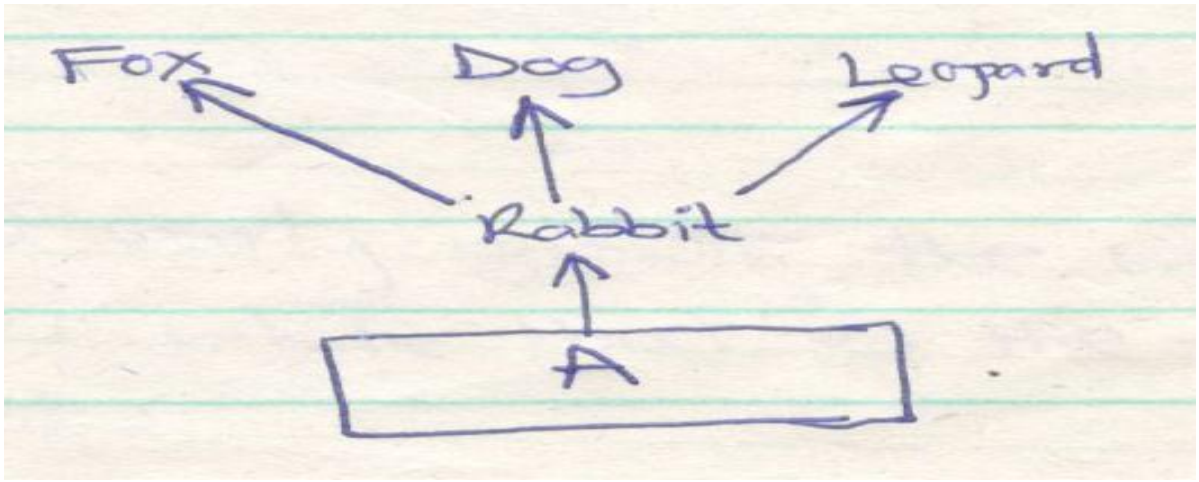
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……

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19. The diagram below shows part of a food relationship in an ecosystem.

a) Name the food relationship shown in the diagram.



(1mark)

……

……

b) Name the trophic level occupied by organism A. **(1mark)**

……

……

c) What is the main source of energy in the ecosystem shown in the diagram above?

(1mark)

……

……

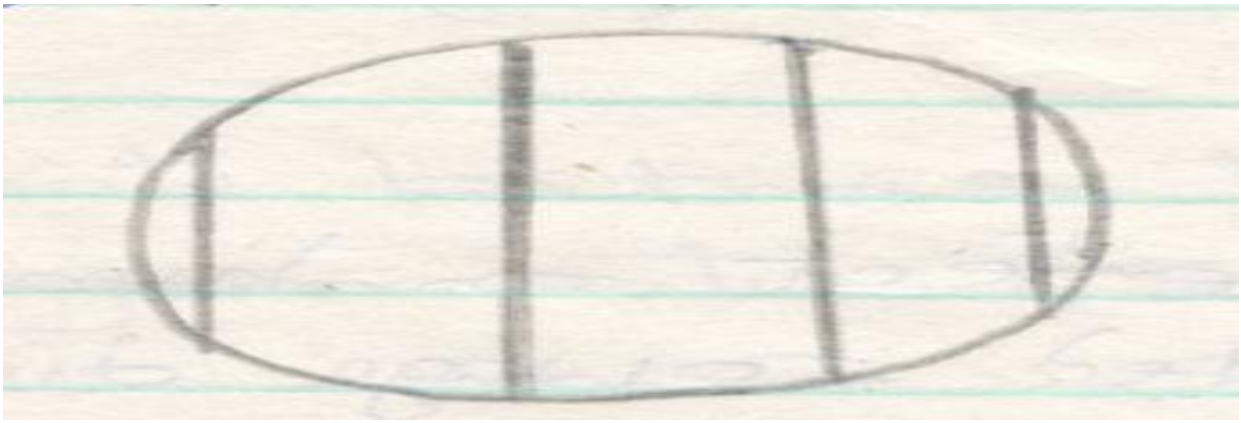
20. Name three supportive tissues in plants. **(3marks)**

i.) ……

ii.) ……

iii.) ……

21. A form one student trying to estimate the size of onion cells observed the following on the microscope's field of view.



a) Explain the resolving power of a microscope. **(1mark)**

……

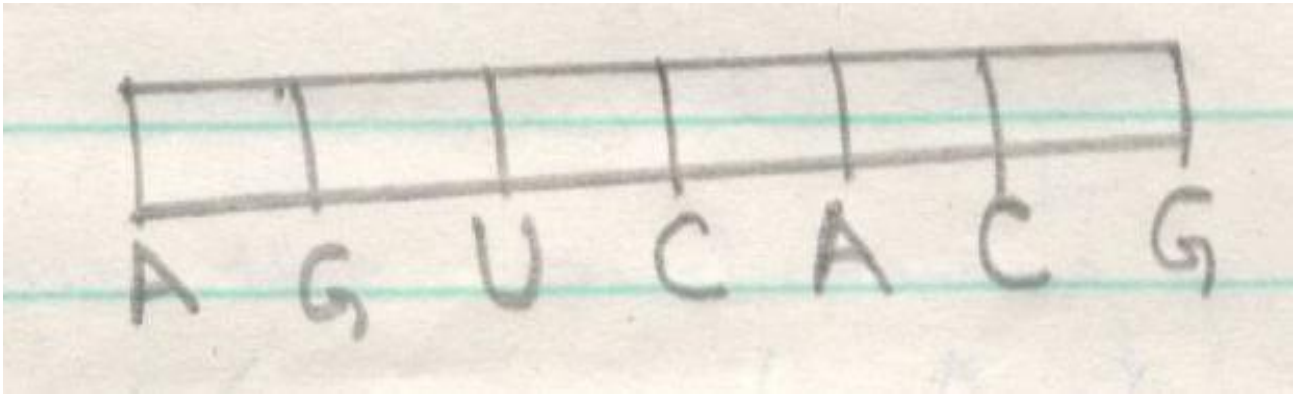
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b) If the student counted 20 cells across the field of view calculate the size of one cell in micrometers. **(2marks)**

22. Below is a nucleic acid strand.



a) Name the nucleic acid. **(1 mark)**

……

……

b) Explain the reason of your answer in (a) above. **(1mark)**

……

……

……

……

23. a) Explain three ways in which a red blood cell is adapted to its function**.** **(3marks)**

……

……

……

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……

b) In which form is carbon (IV) oxide transported. **(1mark)**

……

……

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

……

……

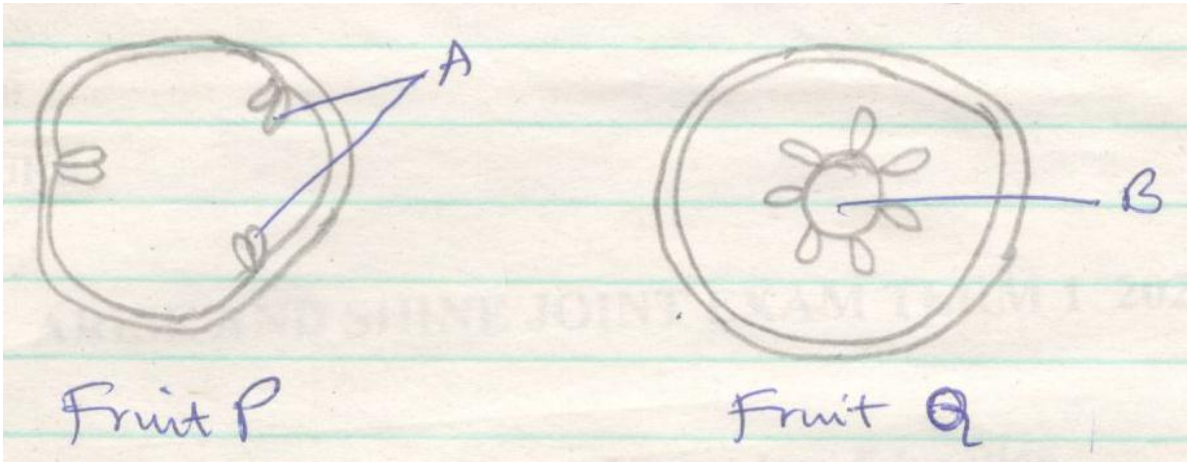
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25. Below are cross sections of two fruits. Study them and answer the questions that follow.



a.) Name the parts labeled

A…… **(1 mark)**

B…… **(1 mark)**

b.) Name the type of placentation in fruit. **(2marks)**

P……

Q……

26. a) Differentiate between hypogeal germination and epigeal germination. **(2marks)**

……

……

……

……

……

b) Explain two causes of dormancy in seed. **(2 marks)**

……

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……

27. Identify two divisions in the kingdom plantae that show alternation of generations. **(2marks)**

……

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KCSE 2021 PREDICTION

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231/2

BIOLOGY

Paper 2

Time: hours.

Instructions to the candidates

1. *Write your name and index in the spaces provided above.*
2. *Answer **ALL** questions in section A in the spaces provided.*
3. *In section B answer question **6 (compulsory)** and either question 7 or 8 in the spaces provided after question 8.*

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Section	Question	Maximum score	Candidate's Score
A			
B	6 7 8	20 20 20	
	TOTAL	**80**	

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SECTION A – (40 MARKS)

Answer ALL Questions in This Section In The Spaces Provided.

1. The diagram below shows the mammalian digestive system. Study it carefully and answer the



questions that follow.

a) i) Name the parts labeled A and B **(2marks)**

……

……

……

ii) How is the structure labeled A in the diagram adapted to carry out its function.**(2marks)**

……

……

……

……

……

b) i) Name the hormone secreted by the walls of the part labeled C **(1mark)**

……

……

ii) Explain the role of the hormone in b) (i) above in digestion. **(3marks)**

……

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……

……

2. In human beings a download pointed frontal hairline ("window peak") is a heritable trait from an expression of recessive gene in a somatic cell. Use 'W' for a dominant gene.

a) Determine the F1 generation if a homozygous peak male is married to a homozygous frontal hairlined female parent. **(4marks)**

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

……

……

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……

c) Name two sex linked genetic disorders that can affect both human females and males.

(2marks)

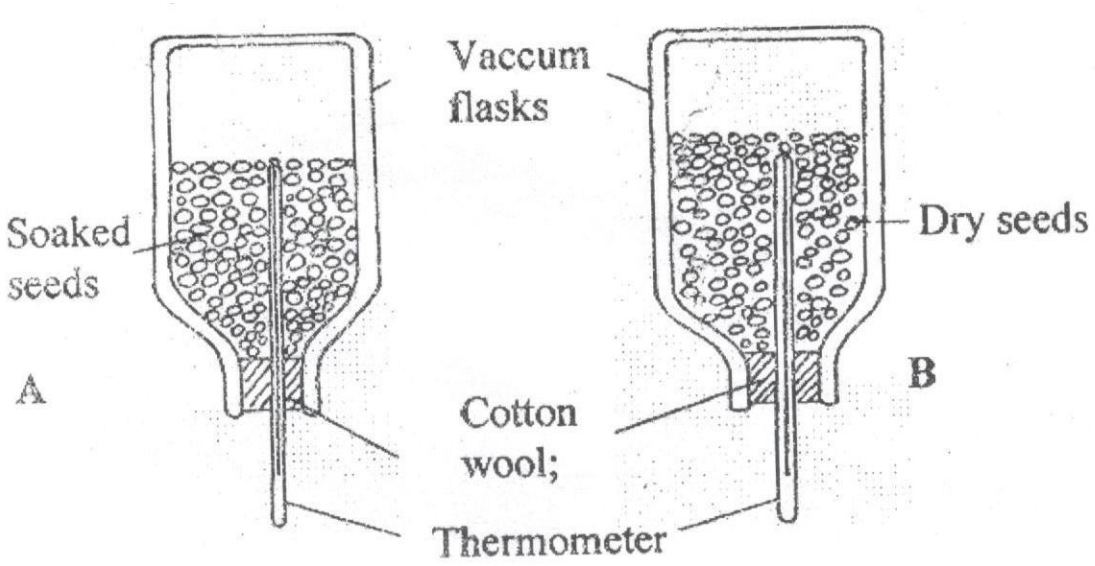
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3. A student set up an experiment using soaked and dry seeds as shown below



a) State the objective of this experiment **(1mark)**

……

……

b) State the observations made in each of the flasks after 24 hours **(2marks)**

……

……

……

……

c) Account for the observation made in (b) above **(2marks)**

……

……

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……

d) Suggest why vacuum flasks were used in this experiment. **(1mark)**

……

……

e) What alteration would you make in the set up to make the results more reliable **(1mark)**

……

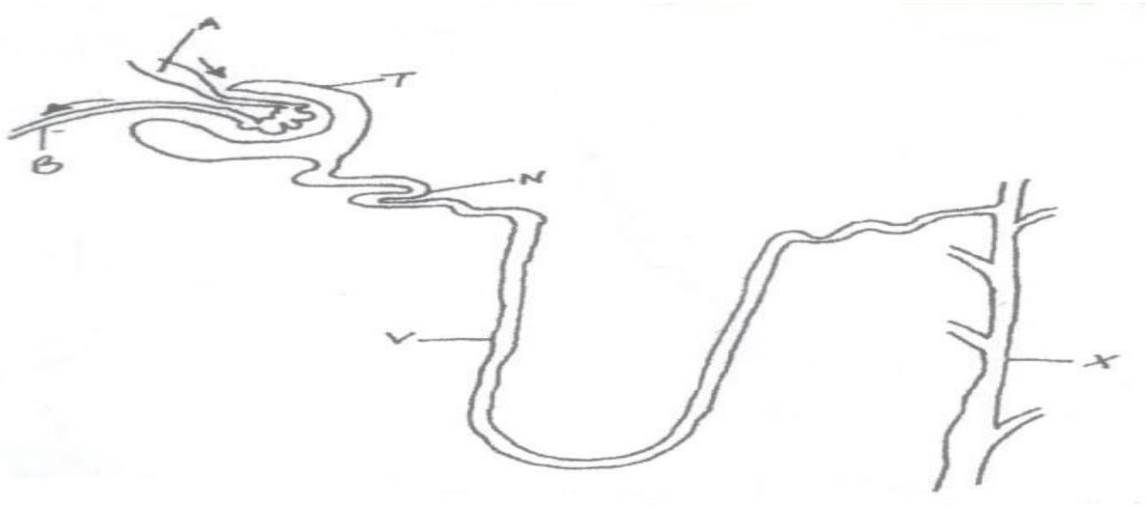
……

f) Why should the seeds be washed with antiseptic 10% formalin? **(1mark)**

……

……

4. Shown below is a section through the mammalian nephron.



a) Name the structures labeled A and N. **(2marks)**

……

……

b) Name all the structures in a nephron which are normally present in the cortex region of a kidney **(1mark)**

……

……

(c) Which region in a kidney deals with conservation of body water? **(1mark)**

……

……

c) Name one hormone that has an effect on part labeled X **(1mark)**

……

……

d) How is part labeled N adapted to its function. **(3marks)**

……

……

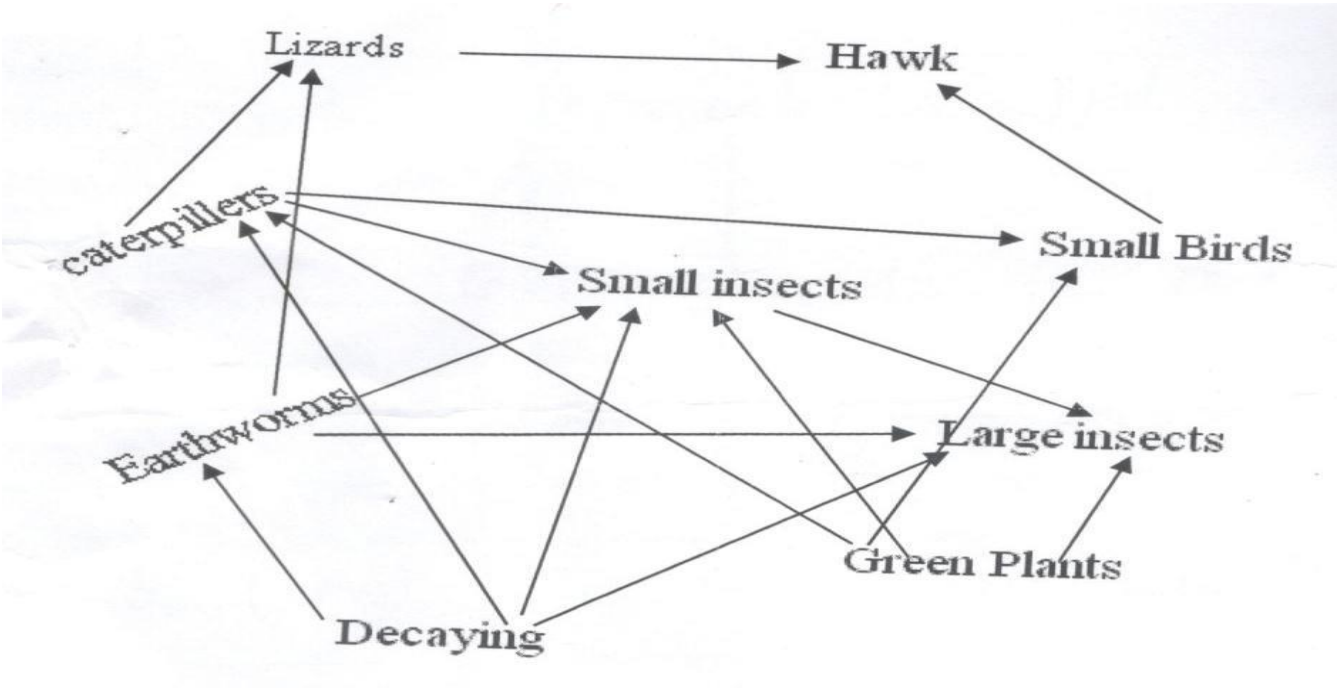
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5. The diagram below represents a food web in a certain ecosystem.



a) Name the trophic level occupied by each of the following:

i) Caterpillars **(1mark)**

……

……

ii) Small insects **(1mark)**

……

……

b) From the food web, construct two food chains which end with lizards as tertiary consumer.

(2marks)

c) **i)** Which organisms have the least biomass in this ecosystem **(1mark)**

……

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……

ii) Explain the answer in (i) above. **(3marks)**

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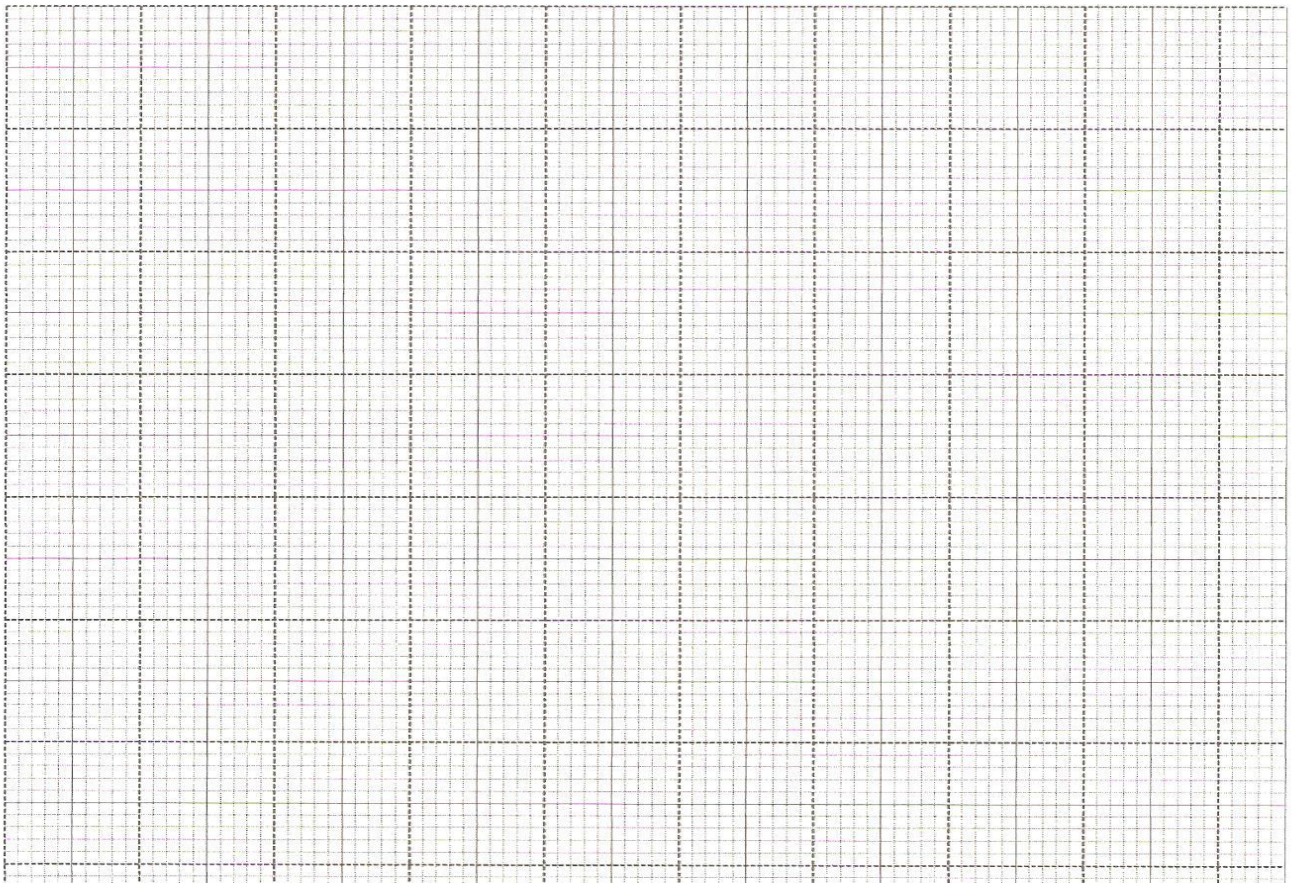
SECTION B - (40 MARKS)

Answer Question 6 (Compulsory) and Either Question 7 Or 8 in The Spaces Provided After Question 8

6. The relationship between oxygen concentration, sugar consumption and potassium ion uptake in isolated wheat roots was determined. The results obtained were tabulated as shown below. The loss of sugar and potassium uptake or gain are in arbitrary units.

		Percentage oxygen in aerotun stream						
		0	5	10	15	20	30	100
Sugar loss		15	20	43	45	45	44	43
Potassium ion gain		5	55	70	75	75	72	70

a) Plot graphs of sugar loss and potassium ions gain against oxygen concentration on the same axes.



b) i) Identify the process by which potassium ions is taken by the roots . **(1mark)**

……

……

……

ii) Give reasons for your answer in b (i) above **(3 marks)**

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.....

.....

c) Account for sugar loss and potassium ions gain.

(i) 0% oxygen concentration **(2 marks)**

.....

.....

.....

(ii) Between 5% and 20% oxygen concentration **(2 marks)**

.....

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d) Suggest **two** factors necessary for the above process apart from oxygen **(2 marks)**

.....

.....

.....

e) State **two** ways by which the process above can be stopped. **(2 marks)**

……

……

……

f) Name **two** main areas in a mammalian body where the above process occurs. **(2 marks)**

……

……

……

7. Explain the various ways in which seeds and fruits are adapted to dispersal. **(20 marks)**

8. (a) Describe how the digestion of a protein is achieved in the following portions of the alimentary canal.

(i) Stomach **(4 marks)**

(ii) Duodenum **(4 marks)**

(b) **(i)** Describe the process of absorption at the root hair to the xylem of the root.

(8 marks)

(ii) Describe how temperature and light intensity affect the rate of transpiration.

(4 marks)

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KCSE 2021 PREDICTION SET 2

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231/3
BIOLOGY
PRACTICAL CONFIDENTIAL

Each Candidate Should Be Provided With the Following Items

a) *Solution A about 10mls (amylase enzyme solution)*

b) *Solution B (benedict's solution)*

c) *Solution C (10 mls starch solution labeled as solution C)*

d) *NaCl solution 0.1% NaCl*

e) *1.4% NaCl solution*

f) *Iodine solution labeled D*

g) *Means of timing. A wall clock will be appropriate*

h) *10 ml measuring cylinder*

i) *Scalpel*

j) *Means of labeling (5 labels)*

k) *Four test tubes*

l) *Means of heating*

m) *Distilled water labeled as solution Y*

n) *Mortar and pestle*

o) *Cork borer*

p) *2 medium irish potatoes*

q) *20mls concentrated salt solution labeled as solution Z*

r) *2mls hydrogen peroxide labeled as solution C*

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DATE……

231/3

BIOLOGY

PRACTICAL

Paper 3

Time: 1 ¾ hours.

INSTRUCTIONS TO THE CANDIDATES

- *Answer **ALL** questions in the spaces provided.*
- *You are required to spend the first 15 minutes of the 1 ¾ hours allowed for this paper reading the whole question paper carefully before commencing your work.*
- *Answers **MUST** be written in the spaces provided in the question paper.*
- *Additional pages **MUST** not be inserted.*
- *Candidates will be penalized for recording irrelevant information and wrong spelling especially technical terms.*

For Examiner's Use Only

Question	Maximum Score	Candidate's Score
1	14	
2	12	
3	14	
Total Score	**40**	

***KCSE Predictions Marking Schemes* - 0707550000 / 0705525657**

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1. You are provided with the following:

- Solution A
- Benedict's solution labelled as solution B
- Solution C
- 0.1% NaCl solution
- 1.4% NaCl solution
- Iodine solution labeled as solution D

- Label the test tubes as P, Q and R; in each test tube place 3mls of solution C into each test tube:

a) Carry out iodine test on portion of the solution from test tubes P, Q and R and record the observation in the table below. **(3 marks)**

Test tube	Observation
P	
Q	
R	

b) To test tube Q, add 3 drops of 0.1 % sodium chloride solution and 2ml of solution A. Place test tube P, Q and R in a water bath and maintain at 37^{o}C for 30 minutes. Using a drop of the solution from each test tube, repeat the procedure in (a) above and spare the rest for the next question. Record your observation in the table below **(2 marks)**

Test tube	Observation at the end of the experiment
Q	
R	

c) Put 2cm^{3}of solution from test tube P in a clean test tube and add 2cm^{3}of Benedict's (solution B) shake then heat the mixture to boil in a hot water bath. Record your final observation in the table below. **(2 marks)**

Test tube	Observation after experiment
Q	

R	

d) Why was test tube P included in the experiment? **(1 mark)**

e) Account for the observations made in test tube Q and R at the end of the experiment **(4 marks)**

i) Test tube Q

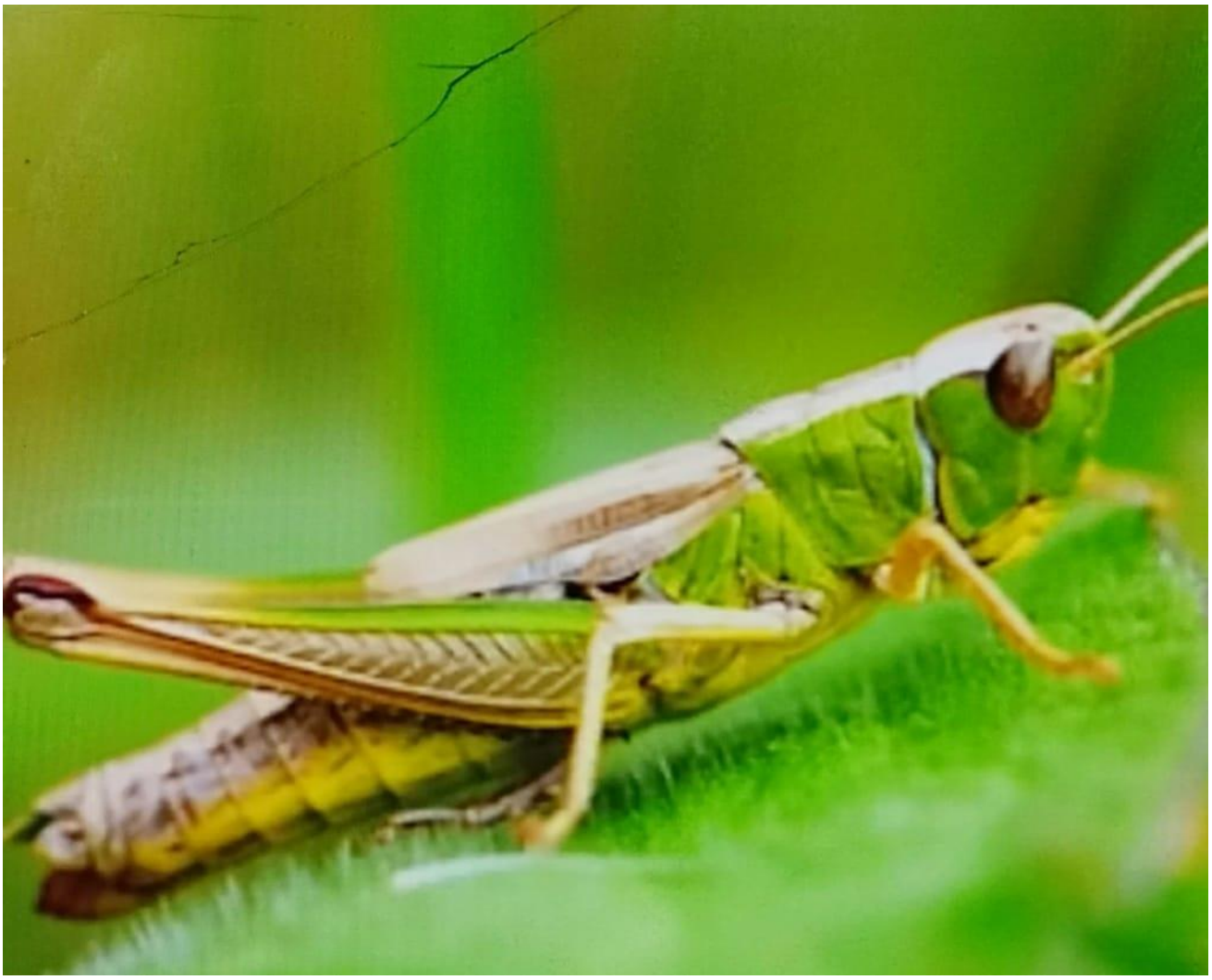
ii) Test tube R

f) Suggest the identity of solution A **(1 mark)**

g) Why was the water bath maintained at 37^{o}C? **(1 mark)**

2. a) Study the photographs below for specimen R and S.

S



R



(i) State four observable differences between the specimen R and S (4 marks)

Specimen R	Specimen S

(ii) Suggest the advantages of the adaptations on the limbs of specimen S **(2marks)**

b) Name the phylum and class to which the specimen belongs. **(2 marks)**

Phylum ----------

Class ----------

c) i) Give the type of metamorphosis in S **(1 mark)**

ii) Draw the life cycle of the type of metamorphosis in the organism mentioned in C (i) above **(3 marks)**

3. (a) You are provided with specimen Q, using a cork borer, remove eight strips of 2cm length from specimen Q. Place two into solution labeled Y and another two strips into solution labeled Z. Leave the set up to stand for 20 minutes.

NB Preserve the other two for use later in question 3(b) (i)

(i) State the observation after 20 minutes when the strips are touched. (6 marks)

	Initial length	Final length	Change in length	Flexibility	Texture
Strips in solution Y	2cm				
Strips in solution Z	2cm				

(ii) Account for the observations in (c) (i) above **(4 marks)**

(b) (i) using a mortar and a pestle crush one of the remaining strip, place the extract in a test tube and add solution C. State your observation. **(1 mark)**

(ii) Repeat the procedure in (b) (i) with distilled water instead of hydrogen peroxide. State your observation. **(1 mark)**

(c) Explain why:

(i) It was necessary to crush specimens in the experiment. **(1 mark)**

(ii) Hydrogen peroxide should not accumulate in living tissue. **(1 mark)**

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KCSE 2021 PREDICTION

NAME…… **INDEX NO…….**

SCHOOL…… **SIGN…….**

DATE……

233/1

CHEMISTRY

Paper 1

THEORY

Time: 2 Hours

Instructions to candidates:

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

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

c) Answer ***ALL*** *the questions in the spaces provided below each question.*

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

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

f) This paper consists of 10 printed pages.

FOR EXAMINER'S USE ONLY

QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
1 -28	80	
TOTAL SCORE	80	

***KCSE Predictions Marking Schemes* - 0707550000 / 0705525657**

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1. (a). Under what condition does the Bunsen burner produce luminous flame? **(1 mark)**

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(b). Luminous flame is yellow and sooty. Explain. **(2 marks)**

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2. (a). Distinguish between isotopes and allotropes **(2 marks)**

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(b). Name one allotrope of Sulphur that is stable at temperature above 96^{o}C **(1 mark)**

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3. Sodium metal burns with a yellow flame in excess oxygen forming yellow solid. The yellow solid react with water to form gas F.

(a). Name the yellow solid **(1 mark)**

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(b). Identify gas F **(1 mark)**

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(c). Write an equation for the reaction of the yellow solid with water. **(1 mark)**

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4. (a). State Boyle's law. **(1 mark)**

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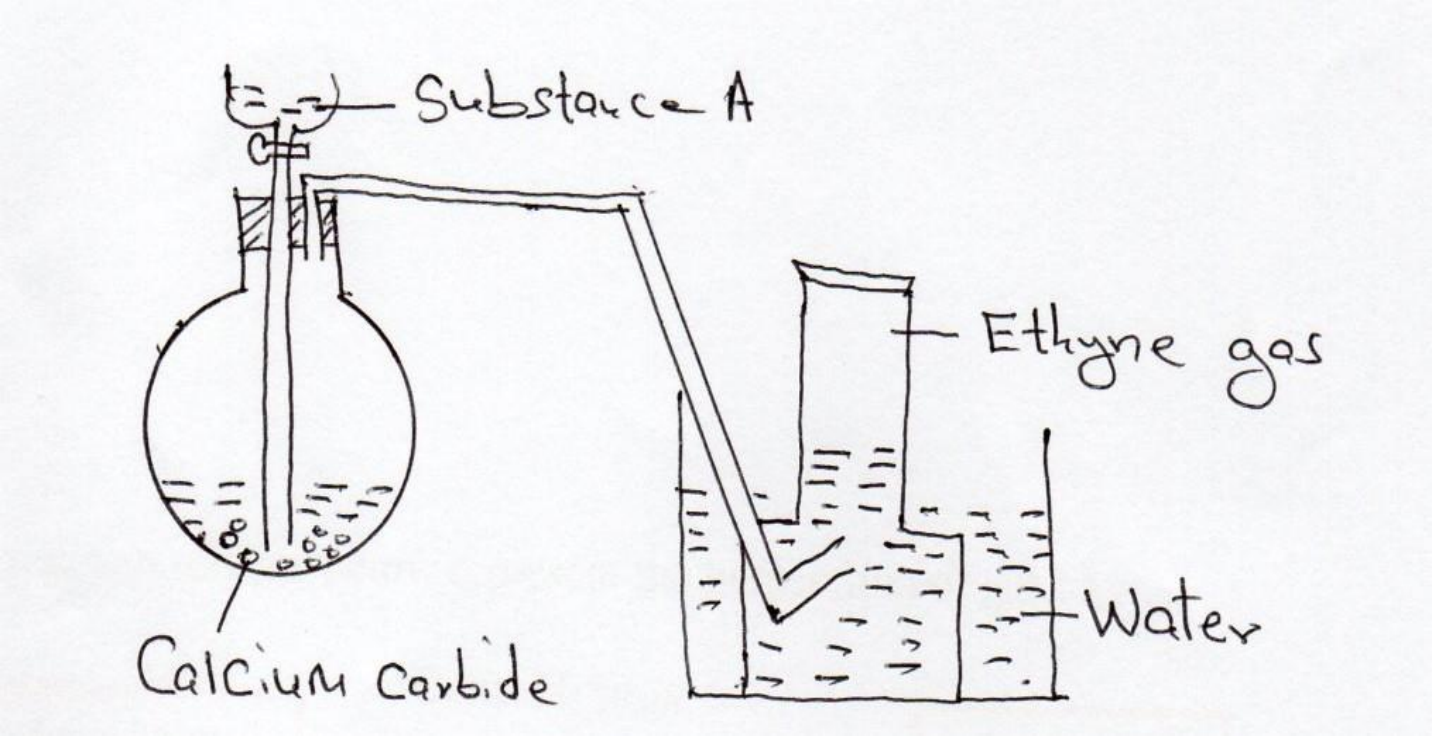
(b). Explain why the pressure of a fixed mass of a gas increases with increase in temperature in a fixed volume container. **(2 marks)**

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l5. The set up in figure 1 can be used to prepare ethyne gas. Use it to answer the questions that follow.



[a]. Name substance A **(1 mark)**

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[b]. Write an equation for the reaction which occurred in the flask **(1 mark)**

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(c). Draw and name the structure of the compound formed when one mole of ethyne reacts with one mole of chlorine gas. **(1 mark)**

6. Starting with zinc carbonate solid describe how zinc hydroxide can be prepared in the laboratory.

(3 marks)

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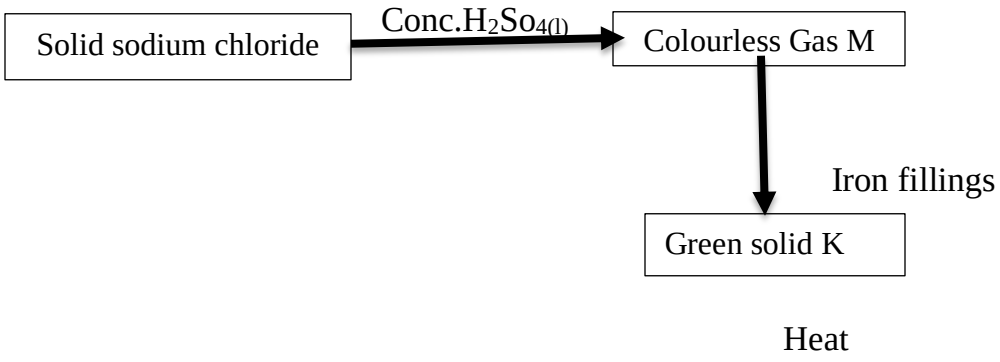
7. 24.0cm^3 of 0.18M hydrochloric acid was added to 0.38g of sodium carbonate solid. Calculate the mass of sodium carbonate that did not react. (0=16, Na=23 C=12) **(3 marks)**

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8. The reaction scheme below represent the preparation of gas M.



[a]. Identify gas M and solid K

Gas M…… **(1/2 mark)**

Green solid K …… **(1/2 mark)**

[b]. Describe a chemical test for gas M **(2 marks)**

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9. (a). 0.95g of Magnesium Chloride was dissolved in 250cm^3 of water. Calculate the molar concentration of Chloride ions in the solution. (Mg=24 Cl=35.5) **(3 marks)**

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10. (a). What is an acid-base indictor? **(1 mark)**

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(b). Describe how the pH of a soil sample can be determined in the laboratory. **(2 marks)**

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11. In an experiment, Hydrogen sulphide gas was bubbled into a solution of iron (III) chloride. State and explain the observations made. **(3 marks)**

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11. The diagram below represents part of the periodic table. Use it to answer the questions that follow.

The letters are not the actual symbols of the elements. **(2 marks)**

M						Q		
T	V		W					

(a). Write the Electronic arrangement for the stable ion formed by **M**. **(1 mark)**

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(b). Write an equation for the reaction between T and **Q**. **(1 mark)**

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(c). Compare the melting point of element T and V. **(1 mark)**

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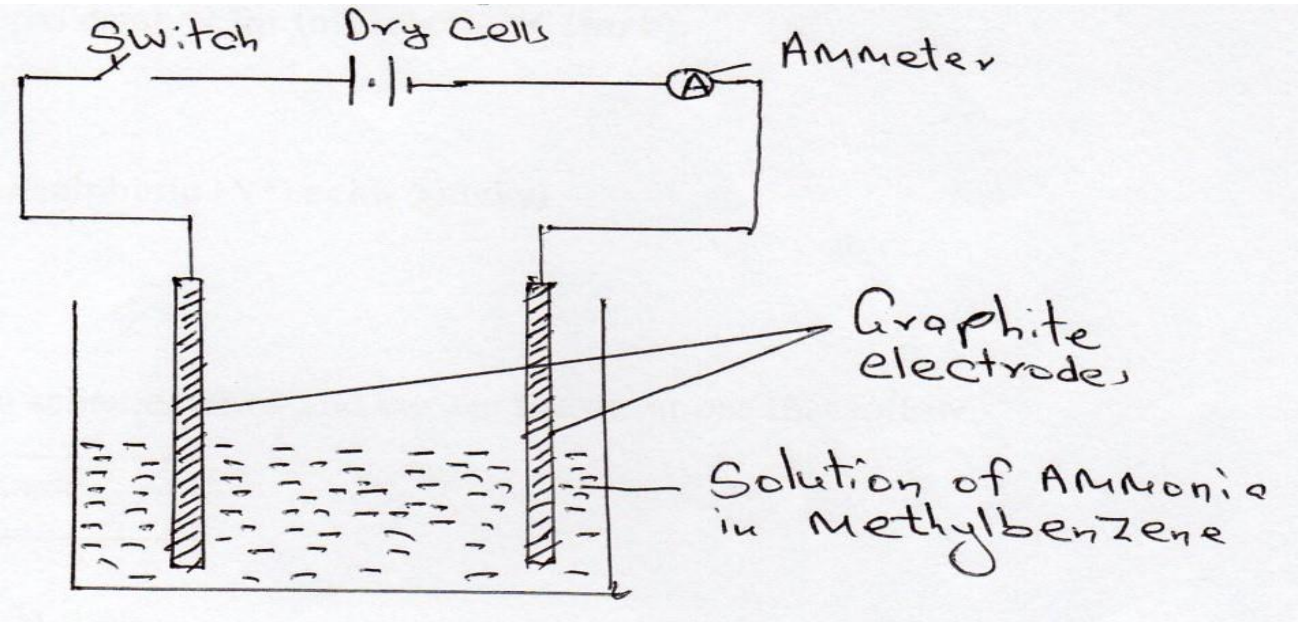
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13. Study the set-up below and answer the questions that follow.



State and explain the observation made when the switch is closed. **(2 marks)**

14. (a). Define molar heat of combustion. **(1 mark)**

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(b). X g of element Q was completely burned in air. The heat evolved was used to heat 250cm^3 of water. The temperature of water rose from 32^oC to 50^oC. Molar heat of combustion of element Q is -360 $kJmol^-$ .Calculate the value of X. (Density of water is 1gcm^{-3} and specific heat capacity of water is 4.2kJ mol^{-3} R.A.M of Q=24) **(2 marks)**

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15. A sample of water is suspected to contain chloride ions. Describe an experiment that can be carried out to determine the presence of chloride ions. **(3 marks)**

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16. In contact process, Sulphur (IV) oxide reacts with oxygen to form Sulphur (VI) oxide in presence of a catalyst.

(a). Name the preferred catalyst for this reaction. **(1 mark)**

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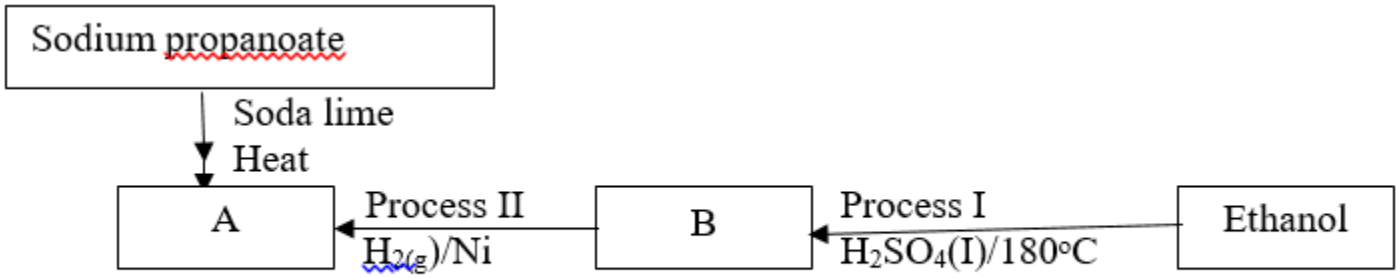
(b). Give two uses of sulphuric (VI) acid **(2 marks)**

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17. Study the reaction scheme below and answer the questions that follow. **[1 mark]**



a). Identify substances **(1 mark)**

A-

B-

[b]. Name process I **(1 mark)**

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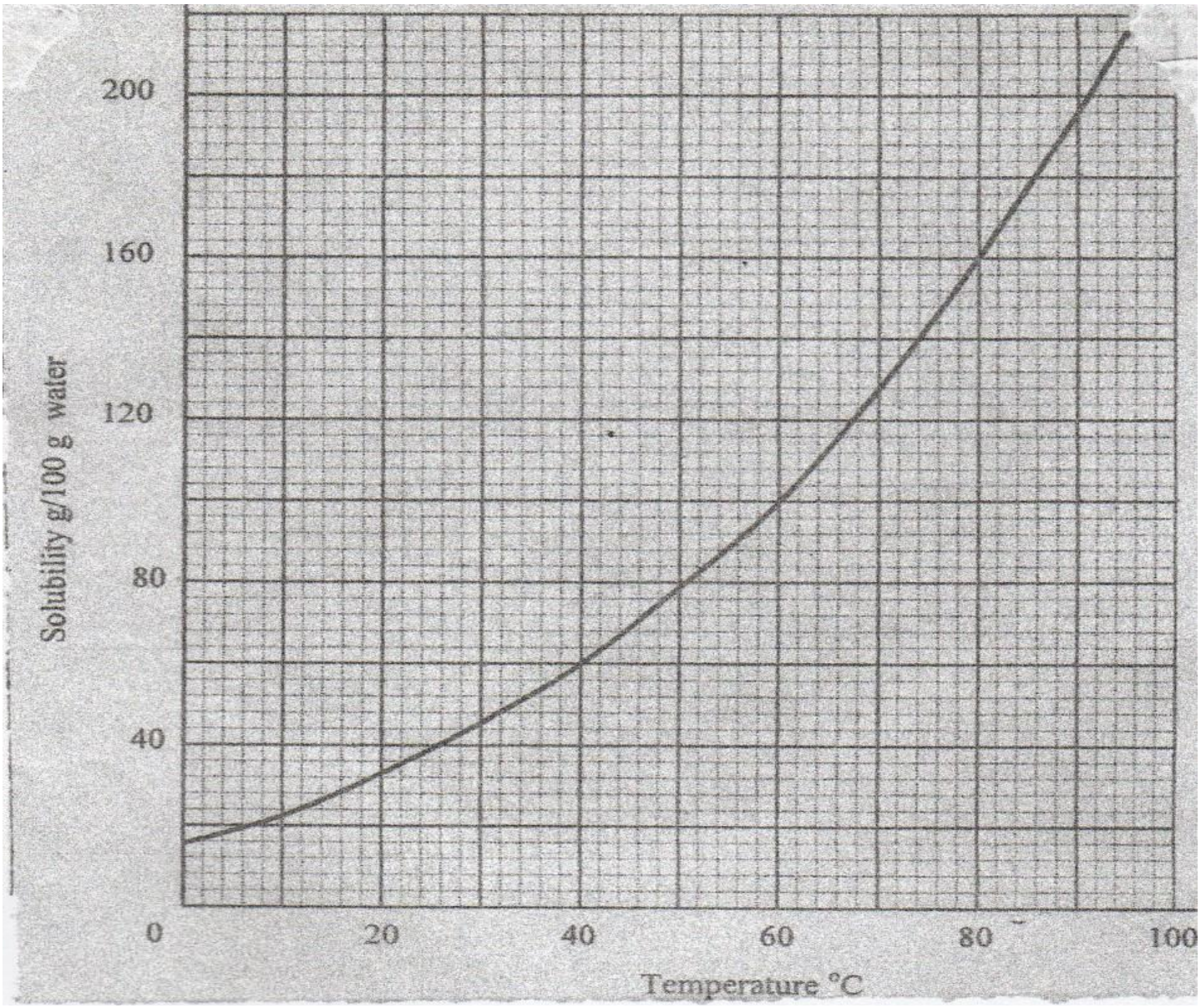
(c). Name the substance produced when Sodium Propanoate react with Soda lime**.** **(1 mark)**

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18. The solubility curve of potassium nitrate is shown below.



[a]. Determine the solubility of potassium nitrate at 40^{o}C **(1 mark)**

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[b]. Determine the molar concentration of saturated potassium nitrate at 40^{o}C

(K = 39.0, O =16.0 N=14.0 and density of water 1g/cm^3 **(2 marks)**

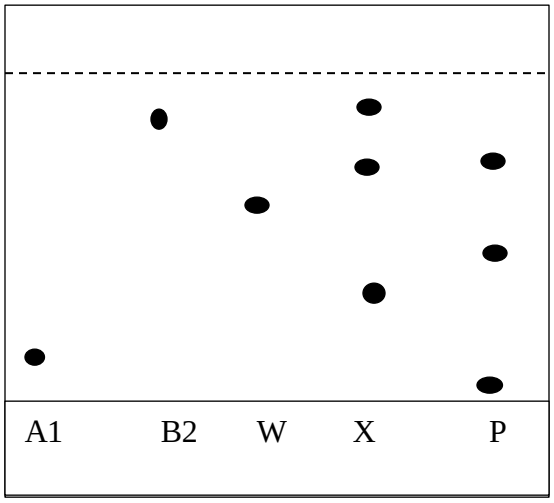
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19. Sample of urine from three participants W, X and P at an international sports meeting were spotted onto a chromatography paper alongside two from illegal drugs,A_1 B_2. A Chromatogram was run using methanol. The figure below shows the chromatogram.



(a). Identify the athlete who had used an illegal drug. **(1 mark)**

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(b). Which drug is more soluble in methanol. Give a reason. **(2 marks)**

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20. State and explain the change in mass that occur when the following substances are separately heated in open crucibles.

(a). Magnesium ribbon **(1 mark)**

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(b). Sodium carbonate **(1 mark)**

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21. With the help of a well labeled diagram, draw a set-up of an arrangement of assembled apparatus that can be used to prepare dry hydrogen gas, including the appropriate reagents. **(3 marks)**

22. Dry carbon (II) oxide gas was passed over heated lead (II) oxide.

(a). Write an equation for the reaction. **(1 mark)**

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(b). Give one industrial application of the above reaction. **(1 mark)**

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

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

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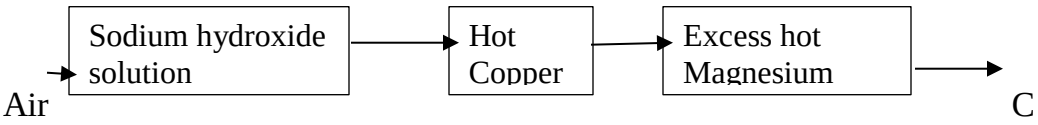
(ii). Write an equation for the reaction that took place. **(1 mark)**

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24. Air was passed through reagent as shown below.



(i). State the role of sodium hydroxide solution. **(1 mark)**

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(ii). Name one component in C. Explain. **(1 mark)**

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25. Analysis of a compound showed that it had the following composition. 69.42% Carbon, 4.13% Hydrogen and the rest Oxygen

Determine the empirical formula of the compounds. **(3 marks)**

(C=12.0, H=1.0 , O=16.0

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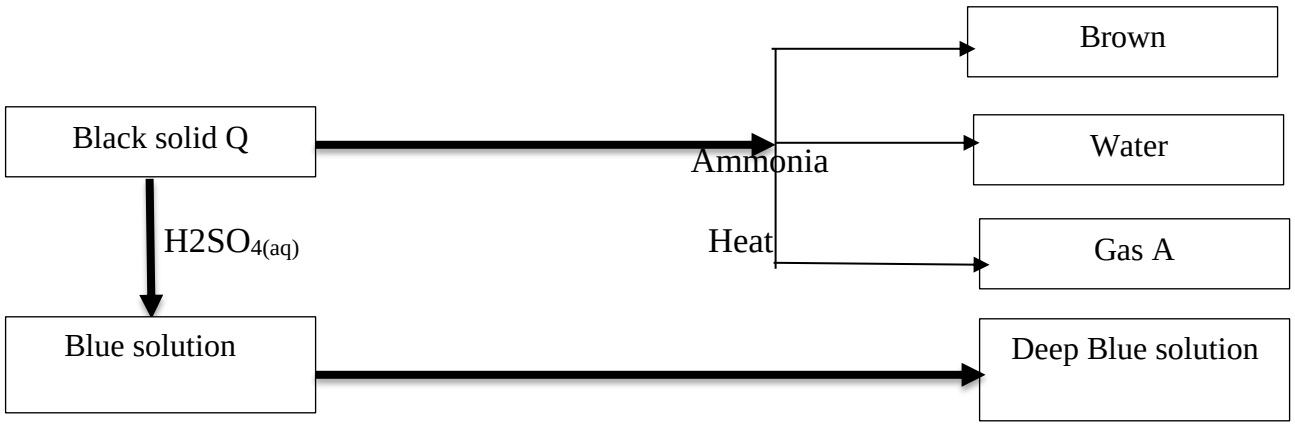
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26. Study the reaction scheme below and answer the questions that follow. **(1 mark)**



Excess Ammonia

Solution

(a). Identify

i. Black solid Q **(1 mark)**

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ii. Gas A **(1 mark)**

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(b). Write an equation for the reaction between ammonia and black solid Q. **(1 mark)**

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(c). Write the formula of the complex ion in deep blue solution. **(1 mark)**

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27. Element **S** has an atomic number of 14 and **R** has an atomic number of 17

(a). Write the formula of the ion of element S. **(1 mark)**

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(b). Using dot (.) and cross (x) diagrams show how **S** an **R** combine to form a compound.

(2 marks)

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28. Explain why the following substances conduct an electric current.

(a). Aluminium metal **(1mark)**

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(b). Molten magnesium chloride **(1 mark)**

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KCSE 2021 PREDICTION

NAME…… **INDEX NO…….**

SCHOOL…… **SIGN…….**

DATE……

233/2

CHEMISTRY

PAPER 2
(Theory)
2 hours

Instructions to candidates

(a) Write your name and index number in the spaces above
(b) Answer all the questions in the spaces provided.
(c) **ALL** working must be clearly shown where necessary

For Examiners Use Only

Question	Maximum Score	Candidates Score
1	12	
2	13	
3	12	
4	11	
5	10	
6	11	
7	11	
Total Score	**80**	

KCSE Predictions Marking Schemes - **0707550000 / 0705525657**

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1. (a). Crude oil is a source of many compounds that contain carbon and hydrogen only.

(i). Name the process used to separate the components of crude oil. **(1 mark)**

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(ii). On what two physical properties of the above components does the separation depends.**(2 marks)**

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(b). Under certain conditions, hexane can be converted to two products. The formula of one of the products is C_3H_8.

i) Write the formula of the other product. **(1mark)**

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(ii). Describe a simple chemical test to show the difference between the two products formed in **b(i)** above **(2 marks)**

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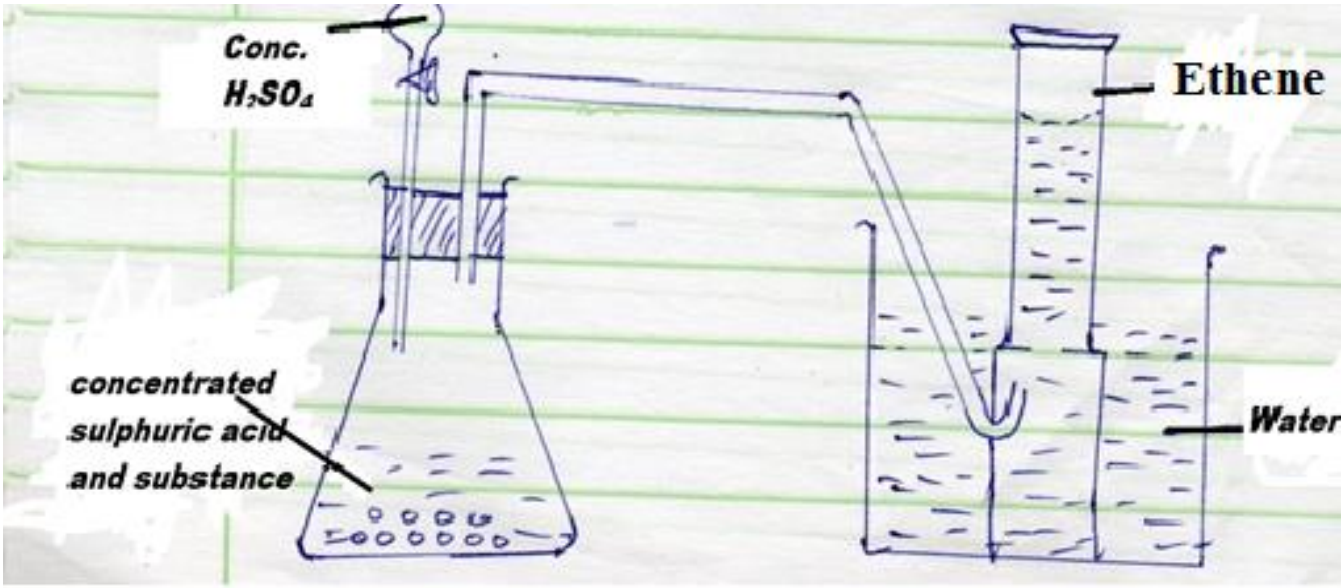
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(c). The set up below was used to prepare and collect ethene gas. Study it and answer the questions that follow



(i). Name the substance T. **(1 mark)**

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(ii) Give the property of ethene that allows it to be collected as shown in the set-up above

(1 mark)

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(d). On of the reaction undergone by ethene is addition polymerization. Give the name of the polymer and one disadvantage of the polymer it forms. **(2 marks)**

Name:……

Disadvantage of the polymer

……

2.(a) Name the method that can be used to obtain pure Iron (III) chloride from a mixture of iron (III) chloride and sodium chloride. **(1 mark)**

……

……

(b) A student was provided with a mixture of sunflower flour, common salt and a red dye. The characteristics of the three substances in the mixture are given in the table below. **(1 mark)**

Substance	Solubility in water	Solubility in ethanol
Sunflower flour	Insoluble	Insoluble
Common salt	Soluble	Insoluble
Solid red dye	Soluble	soluble

The student was provided with ethanol and any other materials needed. Describe how the student can separate the mixture into its three components. **(3 marks)**

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(c) The diagram shows part of the periodic table. The letters do not represent the actual symbols of the elements. Use the diagram to answer the questions that follow.

								Q
R						**T**		
	Z		**N**			**V**	**W**	
Y							**X**	

(i) Explain why the Oxidizing power of W is more than of X. **(2 marks)**

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(ii) How do the melting points of R and T compare. Explain. **(2 marks)**

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(iii). Give the formula of the compounds formed between **Z** and **W** **(1mark)**

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(iv). Element K is in group (v) and period 2 of the periodic table. Locate the element in the grid above.

(1mark)

(v) Using dots (.) and crosses (x), show the bonding between K and hydrogen. **(1 mark)**

(vi) Select an element that coulf be used:-

(I) in weather balloons **(1 mark)**

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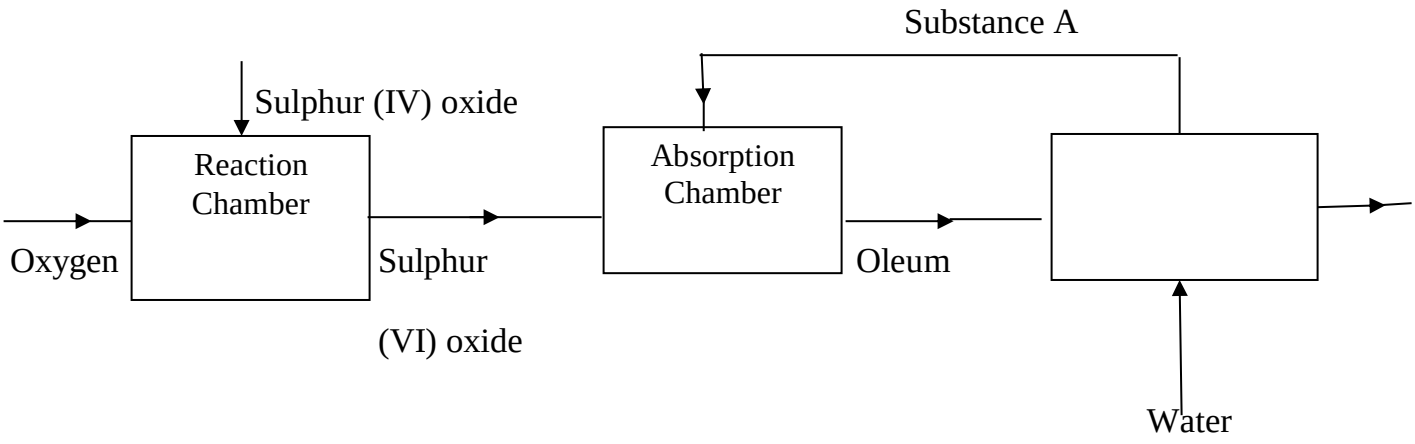
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(II). For making cooking pots. **(1 mark)**

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3. The flow chart below shows some of the processes involved in large scale production of sulphuric (VI) acid. Use it to answer the questions that follow.



(a). Describe how oxygen is obtained from air on large scale. **(3 marks)**

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(b). (i). Name substance A **(1mark)**

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(ii). Write an equation for the process that takes place in the absorption chamber **(1 mark)**

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(c). Vanadium (v) oxide is a commonly used catalyst in the contact process. **(1 mark)**

(i). Name another catalysts which can be used for this process. **(1 mark)**

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(ii). Give two reasons why vanadium (IV) oxide is the commonly used catalyst **(1 mark)**

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(d). State and explain the observation made which concentrated sulphuric (VI) acid is added to crystals of copper (II) sulphate in the beaker. **(2 marks)**

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(e) The reactions of concentration sulphuric (VI) acid with sodium chloride produces hydrogen chloride gas. State three property of concentrated sulphuric (VI) acid illustrated in this reaction.

(1mark)

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(f). Name four uses of sulphuric (VI) acid **(2 marks)**

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4.(a). What is meant by molar heat of combustion? **(1 mark)**

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(b). State the Hess's law **(1 mark)**

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(c). Use the standard enthalpies of combustion of graphite, hydrogen and enthalpy of formation of propane to answer the questions that follow.

ΔH^{o}_{c} (Graphite) = - 393kJmol^{-1}

ΔH^{o}_{c} ($CH_{2(g)}$) = - 286kJmol^{-1}

ΔH^{o}_{f}($C_3H_{8(g)}$) = -104 kJmol^{-1}

(i). Write the equation for the formation of propane. **(1 mark)**

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(ii). Draw an energy cycle diagram that links the heat of formation of propane with its heat of combustion of graphite and hydrogen. **(3 marks)**

(iii). Calculate the standard enthalpy of combustion of propane. **(2 marks)**

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(d). Other than the enthalpy of combustion, state one other factor which should be considered when choosing a fuel. **(1 mark)**

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(e). The molar enthalpies of neutralization of dilute hydrochloric acid and dilute nitric (V) acid are -57.2kJmol^{-1} while that of ethanoic acid is -55.2kJ/mol. Explain this observation. **(2 marks)**

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5.(a). At 25^{o}C, 50g of potassium nitrate were added to 100g of water to make a saturated solution. What is meant by a saturated solution? **(1 mark)**

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(b). The table below gives the solubilities of potassium nitrate at different temperatures

Temperature (^oC)	12	20	28	36	44	52
Solubility g/100g of water	22	31	42	55	70	90

(i). Plot a graph of the solubility of potassium nitrate (vertical axis) against temperature.

(Graph provided) **(3 marks)**

(ii). Using the graph:

I. Determine the solubility of potassium nitrate at 15^oC. **(1 mark)**

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II. Determine the mass of potassium nitrate that remained undissolved given that 80g of potassium nitrate were added to $100cm^3$ of water and warmed to 40^oC. **(2 marks)**

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(c). Determine the molar concentration of potassium nitrate at 15^{o}C

(Assume there is no change in density of water at this temperature. (K=39, N=14, O=16) **(3 marks)**

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6.a)(i). Carbon (IV) oxide is present in soft drinks. State two roles of carbon (IV) oxide.**(1 mark)**

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(ii). Explain the observation made when a bottle containing a soft drink is opened. **(2 marks)**

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(iii). Carbon (IV). Oxide dissolves slightly in water to give acidic solution. Give the formula of the acid. **(1 mark)**

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(b). Zinc oxide can be obtained by heating zinc nitrate. A student heated 5.76g of zinc nitrate.

(i). Write the equation or the reaction that occurred. **(1 mark)**

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(ii). Calculate the total volume of gases produced (Molar gas volume = $24dm^3$, Zn = 64.5, O =16, N=14.0) **(2 marks)**

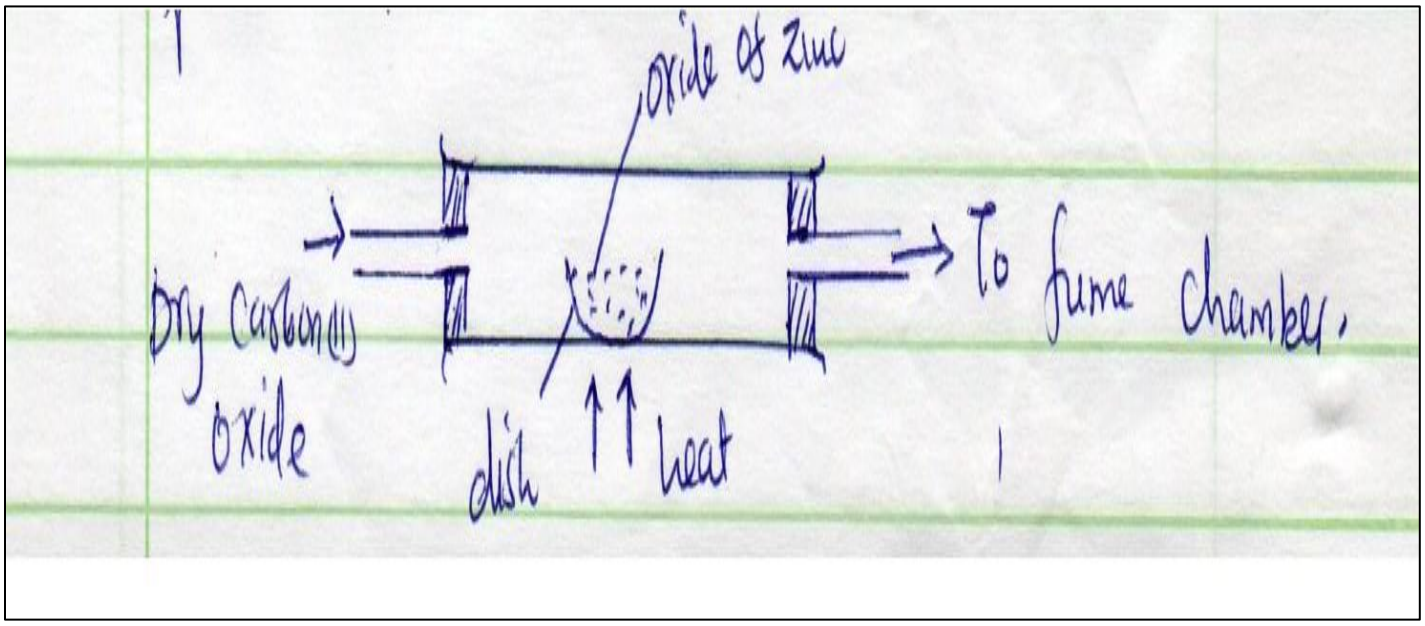
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(c). Excess carbon (II) oxide gas was passed over a heated sample of an oxide of zinc as shown in the diagram below. Use it to answer the questions that follow.



(i). State and explain the observations made in the combustion tube. **(3 marks)**

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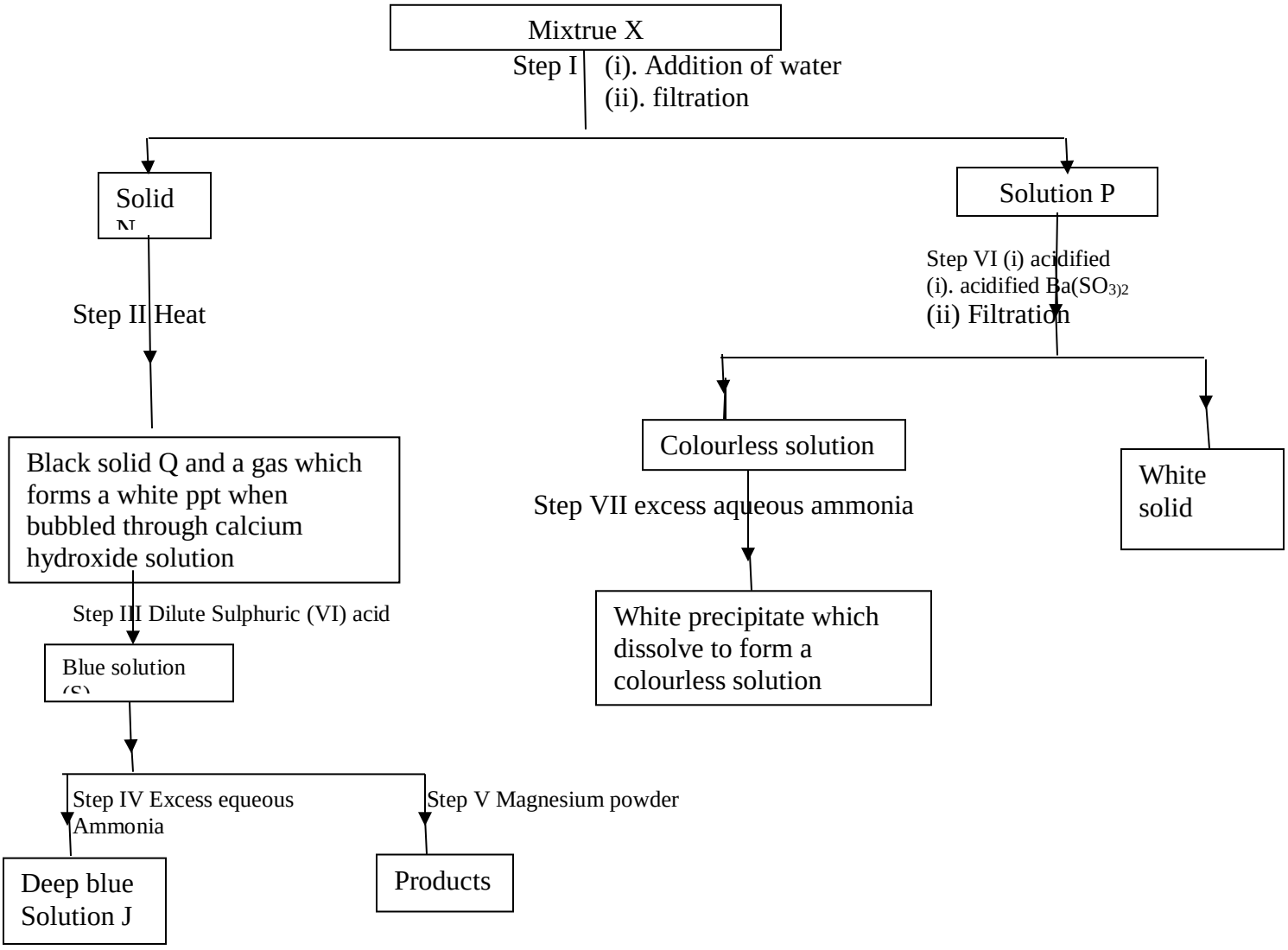
(ii). Write an equation or the reaction which took place in the dish. **(1 mark)**

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7. The flow chart below shows a sequence of reactions involving a mixture of two salts, mixture X.

Study it and answer the questions that follow.



(a). Write the formula of the following

(i). anious in solid Q **(1 mark)**

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(ii). The two salts present in mixruew M. **(2 marks)**

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(b). Write an ionic equation for the reaction in step (VI). **(1mark)**

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(c). State and explain the observations made in step (V) **(3 marks)**

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(d)(i). Starting with lead (II) oxide,describe how a pure solid sample of lead (II) sulphate can be prepared in the laboratory. **(2 marks)**

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(ii). How can one determine whether the lead (II) Sulphate prepared is pure? **(2 marks)**

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KCSE 2021 PREDICTION SET 2

TEL; 0705525657/0707550000

CONFIDENTIAL
CHEMISTRY - PAPER 3

1) *1.0M hydrochloric acid, solution Y*
2) *0.5M sodium hydroxide solution Z*
3) *Solid X 1g sodium carbonate*
4) *Solid L Hydrated aluminium sulphate*
5) *Solid M paraffin wax*
6) *2 boiling tubes*
7) *Thermometer*
8) *Stopwatch*
9) *Tripod stand*
10) *250ml glass beaker*
11) *6 test tubes*
12) *Test tube rack*
13) *Test tube holder*
14) *Spatula*
15) *PH chart*
16) *Blue litmus paper*
17) *Red litmus paper*
18) *Burette*
19) *Pipette*
20) *100cm^3 measuring cylinder*
21) *100cm^3 beaker*
22) *Solid S: Mallleic acid*
23) *Burette stand*

24) Access
25) *2M sodium hydroxide*
26) *0.5M lead (II) nitrate*
27) *Aqueous sodium sulphate*
28) *Bromine water*
29) *Source of heat*
30) *Phenolphthalein indicator*
31) *Universal indicator*

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KCSE 2021 PREDICTION

NAME…… **INDEX NO…….**

SCHOOL…… **SIGN…….**

DATE……

233/3

CHEMISTRY

Paper 3
[PRACTICAL]
Time: 2 Hours

Instructions to candidates:

- Write your name,Index Number,date and sign in the spaces provided above.
- All workings **MUST** be clearly shown where necessary.
- Mathematical tables and silent electronic calculators may be used.

For Examiners use only.

Question	Maximum Score	Candidate's Score
1	14	
2	09	
3	17	
Total marks	**40**	

KCSE Predictions Marking Schemes - **0707550000 / 0705525657**

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1. You are provided with the following:

- 1.0M Hydrochloric acid; solution **Y**
- 0.5M Sodium hydroxide; solution **Z**

Anhydrous sodium carbonate of unknown mass; solid **X**

You are required to determine the mass of sodium carbonate that was used in the reaction.

Procedure

Using a measuring cylinder, measure 60cm^3 of 1M hydrochloric acid, solution Y and transfer into 100cm^3 beaker. Add all sodium carbonate (solid X) and stir gently until there is no effervescence. Transfer the solution into a clean 100ml measuring cylinder and add distilled water to make 100cm^3 of the solution. Transfer the solution onto 250cm^3 beaker and shake. Label this solution F.

Fill the burette with solution Z. Pipette 25.0cm^3 of solution F and transfer to a conical flask. Add 3 drops of Phenolphthalein indicator and titrate with solution Z. Record your results in the table 1 below. Repeat the procedure to complete the table.

(a).Table 1. **(4 marks)**

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

(i). Determine the average volume of solution Z. **(1 mark)**

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(ii). Calculate the number of moles of sodium hydroxide (solution Z) used. **(1 mark)**

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(iii). Find the number of moles of hydrochloric acid in 25.00cm^3 of solution F **(2 marks)**

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(iv). Determine the number of moles of hydrochloric acid in 100cm^3 of solution F **(2 marks)**

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(v). Calculate the number of moles of hydrochloric acid in the original $60cm^3$ of solution Y. **(1 mark)**

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(vi). Calculate the number of moles of hydrochloric acid that reacted with sodium carbonate.**(1 mark)**

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(vii). Determine the mass of sodium carbonate that reacted with the acid (Na=23, C=12, O=16)

(2 marks)

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2. A. You are provided with

- Solid M
- A thermometer
- A test tube

You are required to determine the melting point of solid **M**

PROCEDURE

a). Place 150cm^3 of tap water in a 200 ml or 250 ml beaker

b). Heat the water to near boiling.

c). Insert a thermometer in the test tube containing solid M and take its temperature then record it in the table below under time 0.

d). Using a test-tube holder, immerse the test-tube containing solid M into the hot water (Ensure that half of the test-tube is immersed) and immediately start a stop Watch/clock and record the temperature of the contents of the test-tube after every Half-minute and complete the table.

e). Dip the thermometer into the hot bath to clean it then wipe it with tissue paper **(4 marks)**

Time (Min)	0	½	1	1 ½	2	2 ½	3	3 ½
Temperature (^{o}C)								

(i). On the grid provided, plot a graph of time, (Horizontal axis) against temperature. **(3 marks)**



(ii). From the graph, determine the melting point of solid M. **(1 mark)**

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(iii). Name the type of heat change at the melting point. **(1 mark)**

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3. (a). You are provided with solid L. Carry out the tests below and record your observations and inferences in the spaces provided.

(i). Heat gently then strongly half of solid L in a clean dry test tube, test any gas produced using red and blue litmus papers

Observations	Inferences
[1 mark]	**[1 mark]**

Take the remainder of solid L and put into a boiling tube. Add about $10cm^3$ of distilled water and shake. Divide the solution into 3 portions.

(ii). To the first portion, add aqueous sodium hydroxide dropwise until in excess.

Observations	Inferences
[1 mark]	**[1 mark]**

iii). To the second portion, add about $5cm^3$ of aqueous sodium sulphate.

Observations	Inferences
[1 mark]	**[1 marks]**

(iv). To the third portion, add about $2cm^3$ of lead (II) nitrate.

Observations	Inferences
[1 mark]	**[1 marks]**

3.(b). You are provided with solid S perform the following tests and record your observations and inferences in the spaces provided.

(a). Put half of the solid on a clean METALLIC SPATULA ignite it in a non-luminous flame.

Observations	Inferences
[½ mark]	**[½ mark]**

(b). Put the remaining solid in a clean boiling tube, add water and shake thoroughly. (Retain this mixture for test bi-biii)

Observations	Inferences
[1 mark]	**[1 mark]**

(b).(i). In about $2cm^3$ of the mixture add 2 drops of bromine water.

Observations	Inferences
[1 mark]	**[1 mark]**

(ii). in about $5cm^3$ of the mixture add both blue and red litmus paper.

Observations	Inferences
[1 mark]	**[1 mark]**

(iii). use the remaining mixture to determine the pH of the mixture.

observations	Inferences
[1 mark]	**[1 mark]**

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KCSE 2021 PREDICTION

NAME…… **INDEX NO…….**

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DATE……

232/1

PHYSICS

THEORY
PAPER 1
2 HOURS

INSTRUCTIONS

1. *Write your name and admission number in the space provided*
2. *Sign and write the date of the examination in the space provided above*
3. *Answer all the questions in the spaces provided.*
4. *Mathematical tables and silent electronic calculators may be used.*

For examiner's use only

SECTION	QUESTION	TOTAL MARKS	CANDIDATE'S SCORE
A	1-13	25	
B	14	14	
	15	10	
	16	11	
	17	10	
	18	10	
		GRAND TOTAL	80 MARKS

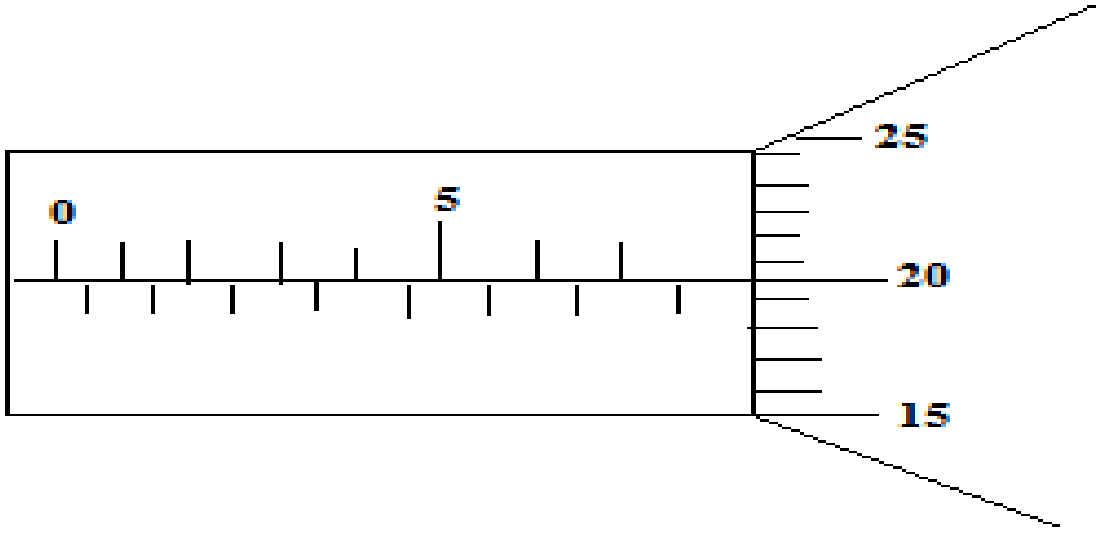
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SECTION A (25 MARKS)

1. The figure below shows a micrometer screw gauge. What is the reading shown on the figure.**(2 mks)**



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2. State pressure law. **(1 mark)**

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3. State two factors that affect stability of a body. **(2 marks)**

i)

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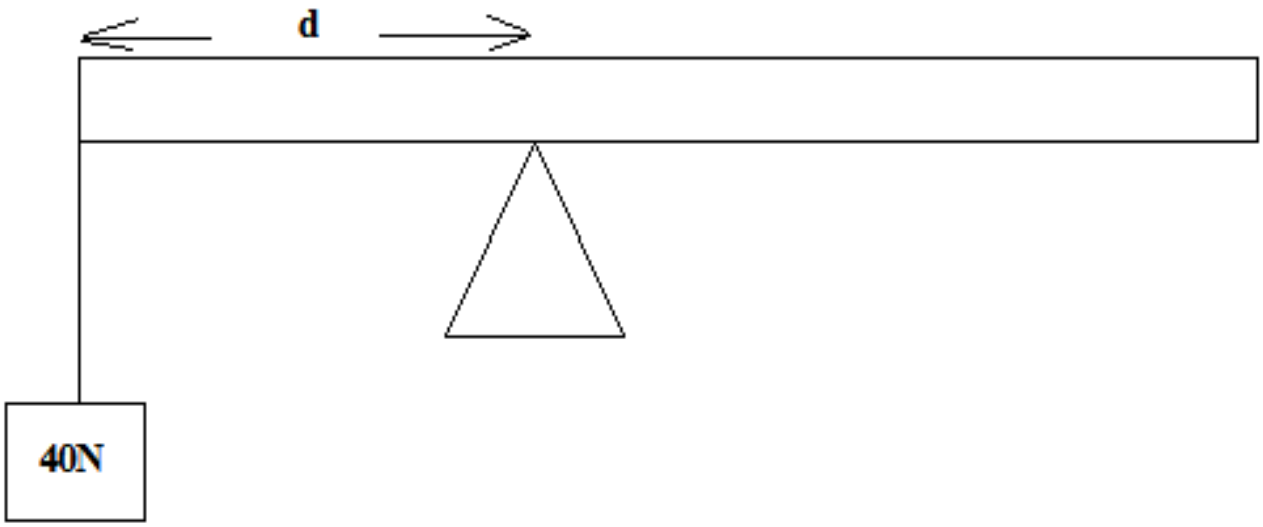
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ii)

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4. The diagram below shows 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 below.



Determine the distance d. **(3 marks)**

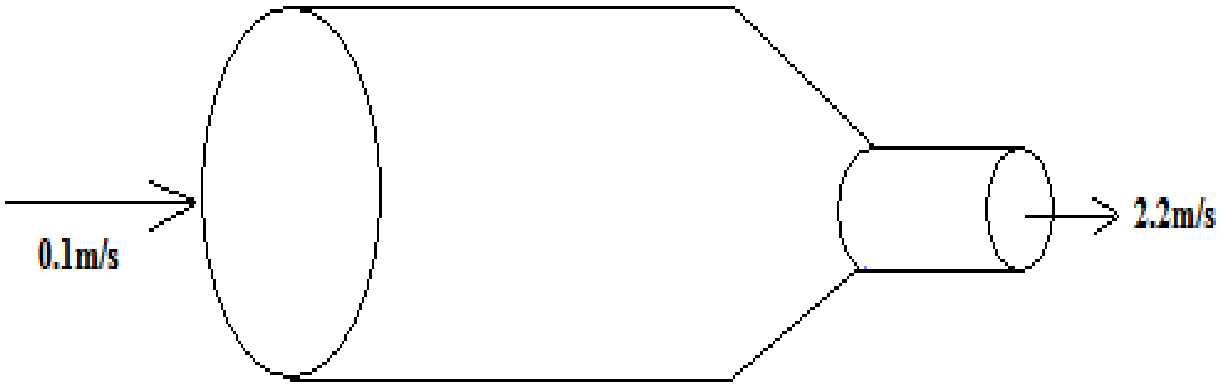
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5. Figure below shows a non-viscous fluid that is not compressible moving through a pipe of varied cross-sectional area.



If the area of the narrow region is $0.05m^2$, calculate diameter of the wider region. **(3 marks)**

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6. State one use of thermal expansion. **(1 mark)**

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7. State two factors that affect melting point of a substance. **(2 marks)**

i)……

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ii)……

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8. A body is projected vertically upwards from the top of a building. If it lands on the base of the building. Sketch the velocity-time graph for motion. **(2 marks)**

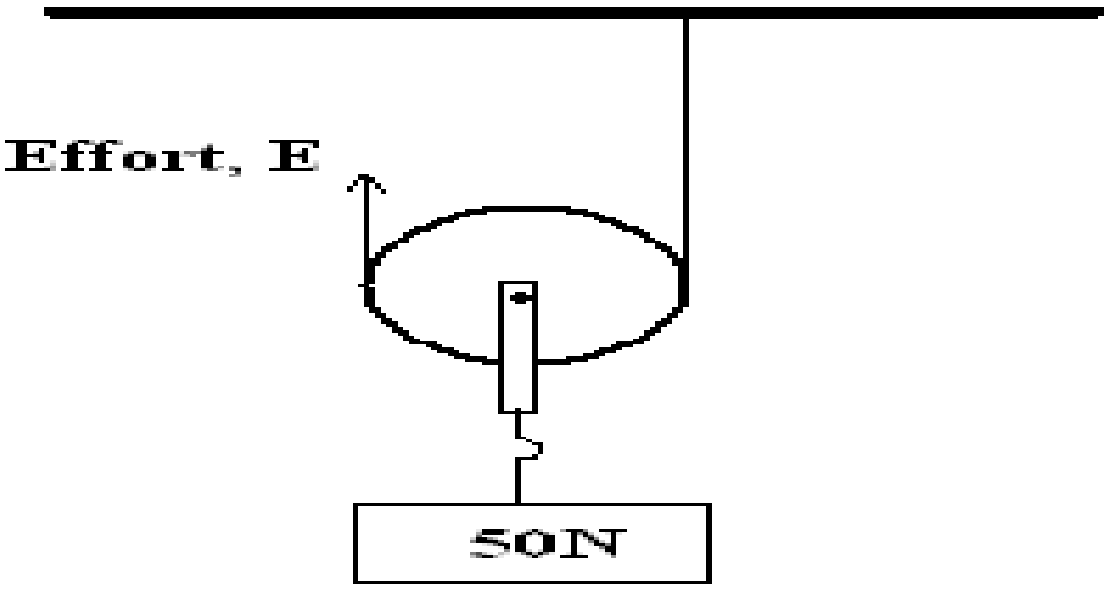
9. State a reason why transfer by radiation is faster than by conduction. **(1 mark)**

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10. The pulley system in the figure below supports a load of 50N.



Given that the efficiency of the system is 80% calculate the effort, E. **(3 marks)**

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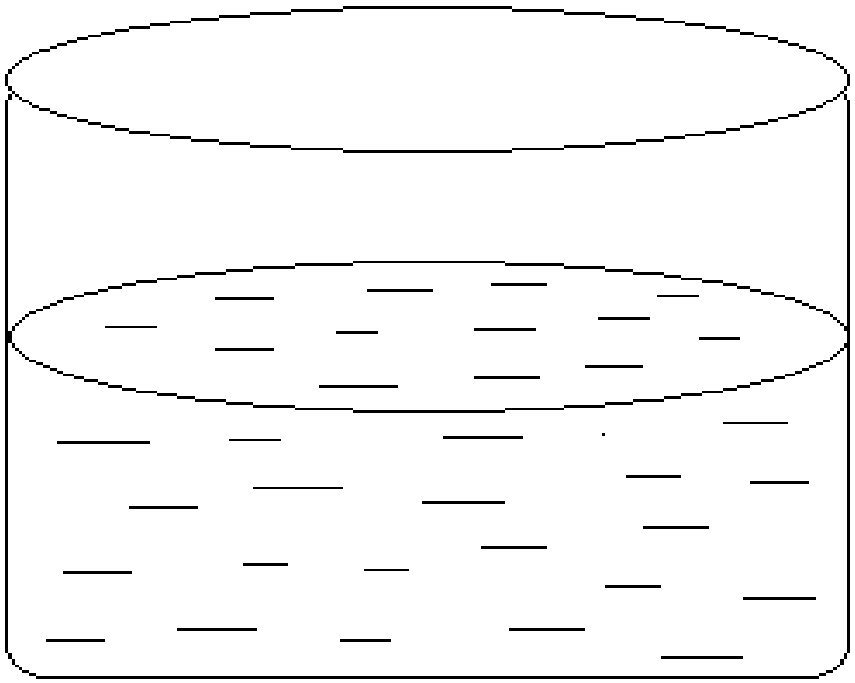
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11. The figure below shows a glass container with cross-section area of $50cm^2$.



When a wooden block of mass 120g is immersed into the water it floats while fully submerged and the water level rises by 4cm, determine the density of the water. **(3 marks)**

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12. Define the term momentum. **(1 mark)**

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13. What is a pitch of a screw. **(1 mark)**

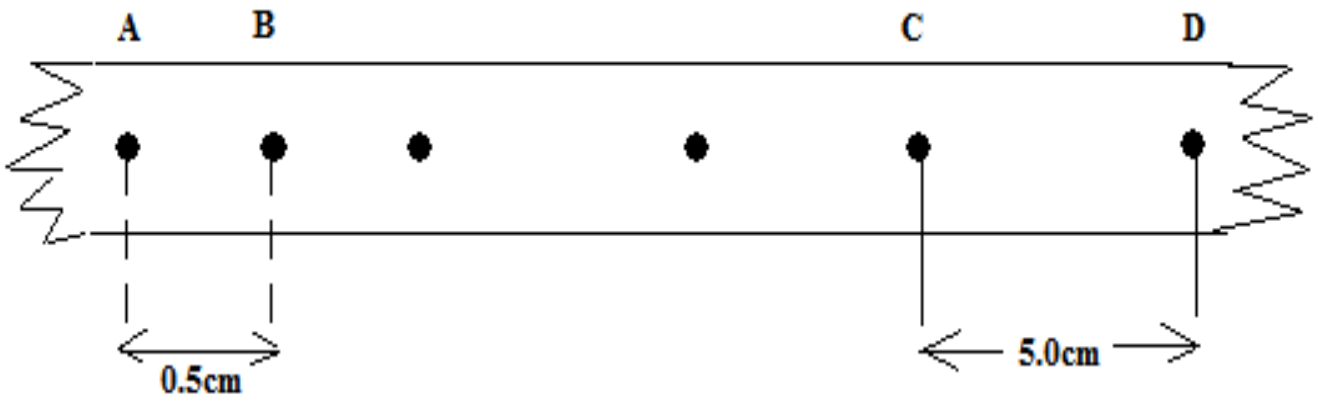
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SECTION B

14. The figure below shows the motion of a trolley on ticker timer. The ticker has a frequency of 100Hz.



a) i) Calculate the initial velocity between A and B. **(3 marks)**

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ii) Calculate the final velocity between C and D. **(3 marks)**

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iii) Calculate the acceleration of the trolley during the motion. **(3 marks)**

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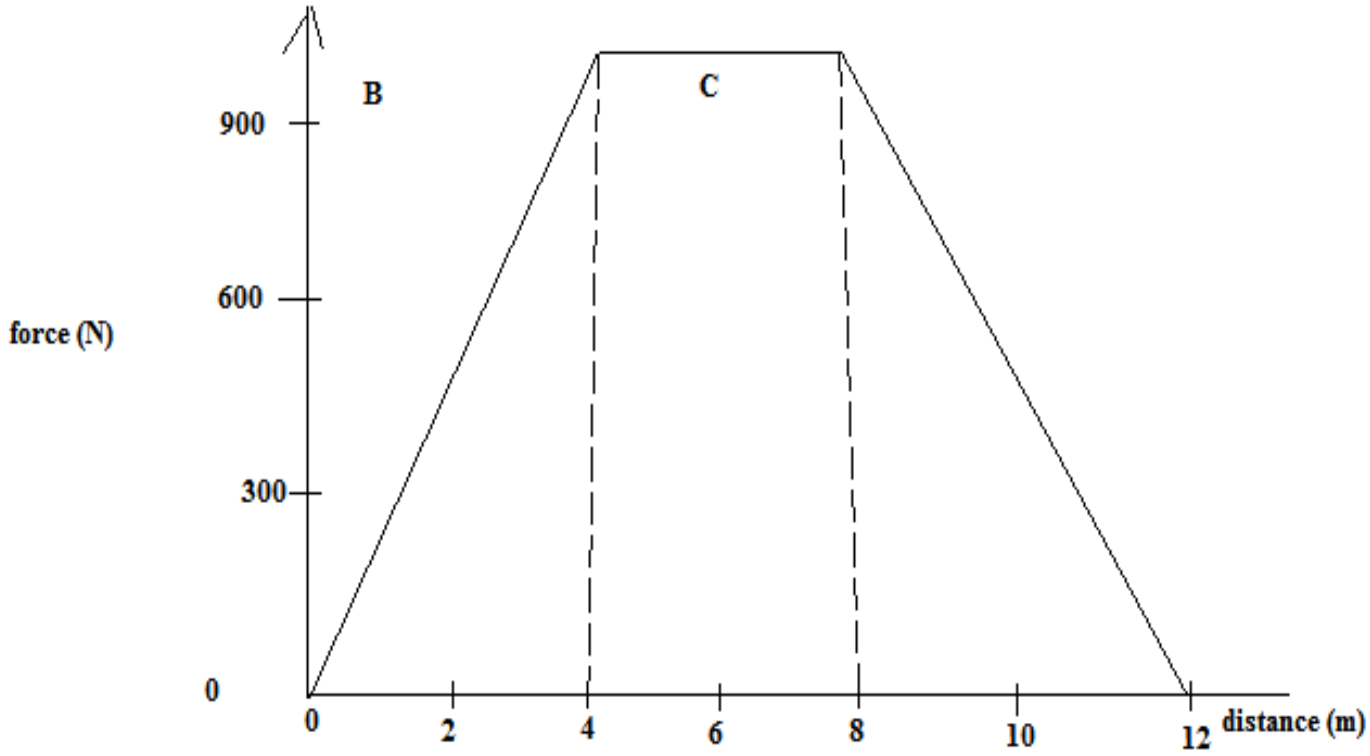
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b) Figure below shows a force-distance graph for a car being towed on a level ground.



i) Calculate the total work done. **(3 marks)**

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ii) If the velocity just before reaching point C is 0.6m/s. Calculate the power developed by the engine at this point. **(2 marks)**

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15. a) A metal ball of mass 100g is dipped into boiling water at 100^0C and then placed in a calorimeter containing 80g of water at 20^0C. After stirring, the temperature of the mixture stabilizes at 23.4^0C. Ignoring the heat gained by the calorimeter, determine the specific heat capacity of the metal. (Specific heat capacity of water = 4200j/Kg K). **(4 marks)**

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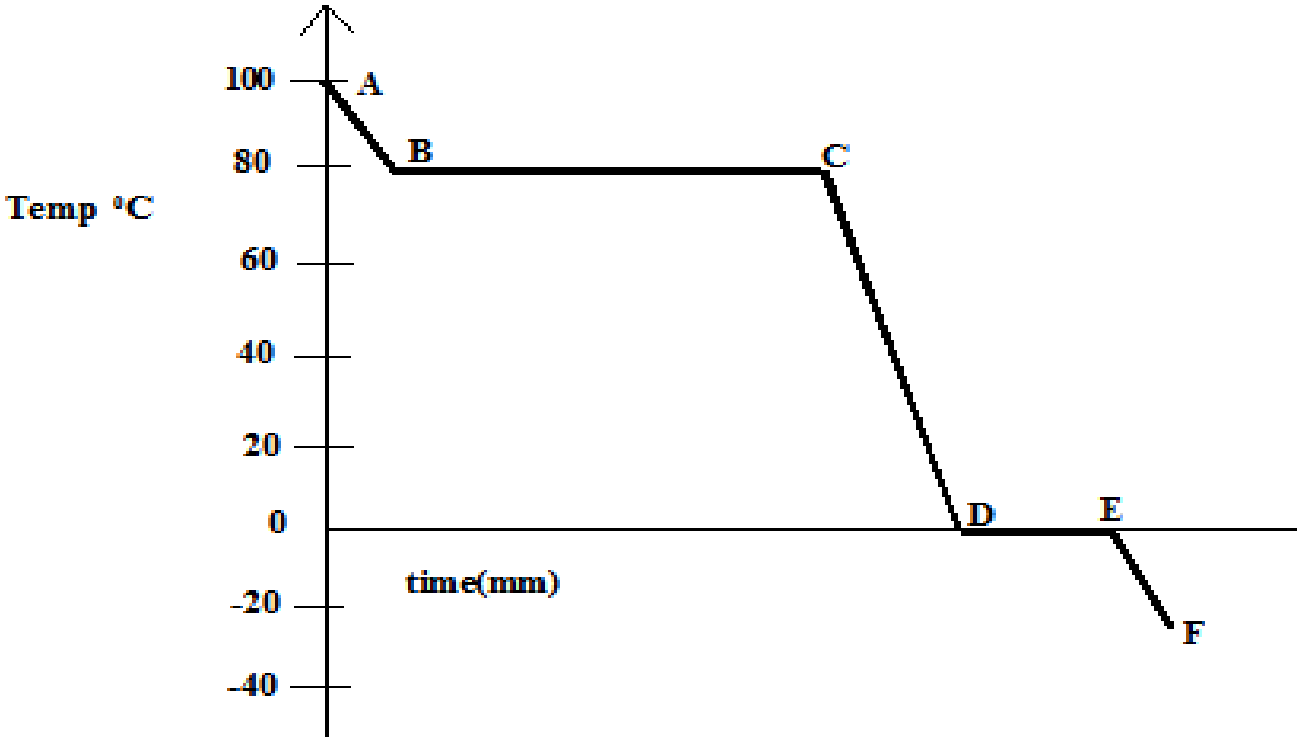
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b) The cooling curve below is for a pure substance.



i) What is the melting point of the substance. **(1 mark)**

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ii) State two factors that affect boiling point of a substance.

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iii) At what part of the curve is the substance. **(3 marks)**

Solid only?

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Liquid only?

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Solid and Liquid?

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16. a) State Newton's second law of linear motion. **(1 mark)**

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b) The legal speed limit on motorways is approximately 30m/s. In an incident on a motorway, a car of mass 900kg leaves a skid mark 75m long when stopping. The maximum deceleration of the car when skidding is approximately $10m/s^2$.

i) Show that before the incidence, the car must have been travelling above the legal speed limit.

(3 marks)

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ii) Calculate for this skid, the maximum average braking force between each of the four tyres and the road. **(3 marks)**

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iii) When the motorway is wet, the braking force provided by each wheel is reduced to 50% of the calculated in (ii) above. What is the effect of this reduced breaking force on stopping distance, explain your answer. Assume that the speed of the car before breaking is the same in both cases.

(2 marks)

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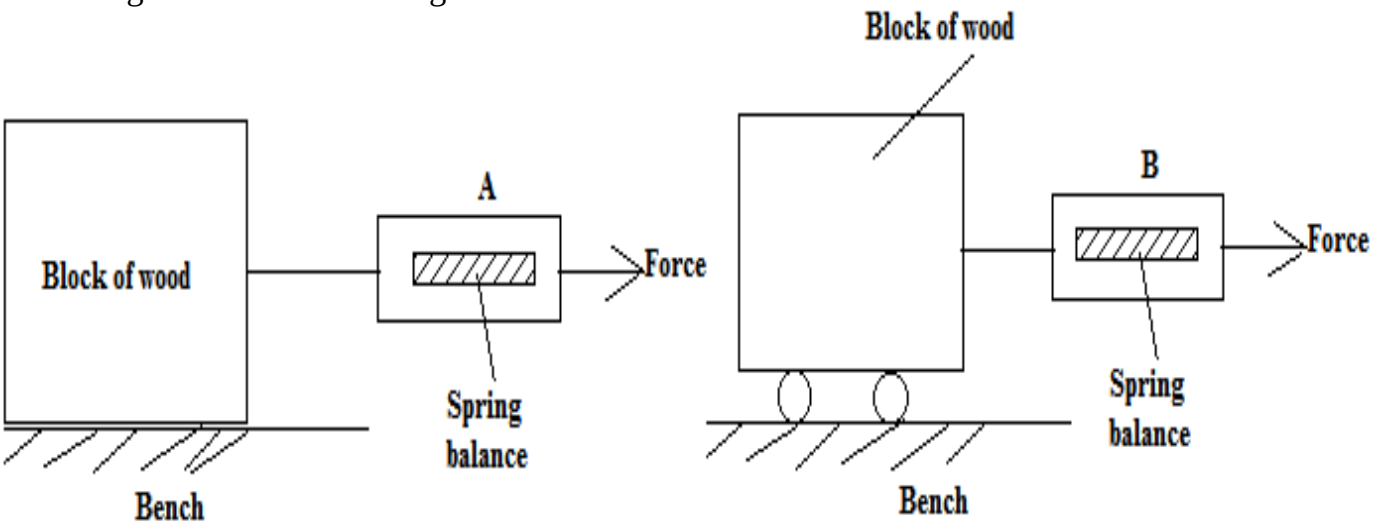
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c) A student carried out an experiment to measure static friction using identical wooden blocks arranged as shown in the figure.



State and explain which spring balance will indicate a smaller reading when the block just starts to move. **(2 marks)**

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17. a) Give a reason why people experience nose bleeding when they climb tall mountains.**(1 mark)**

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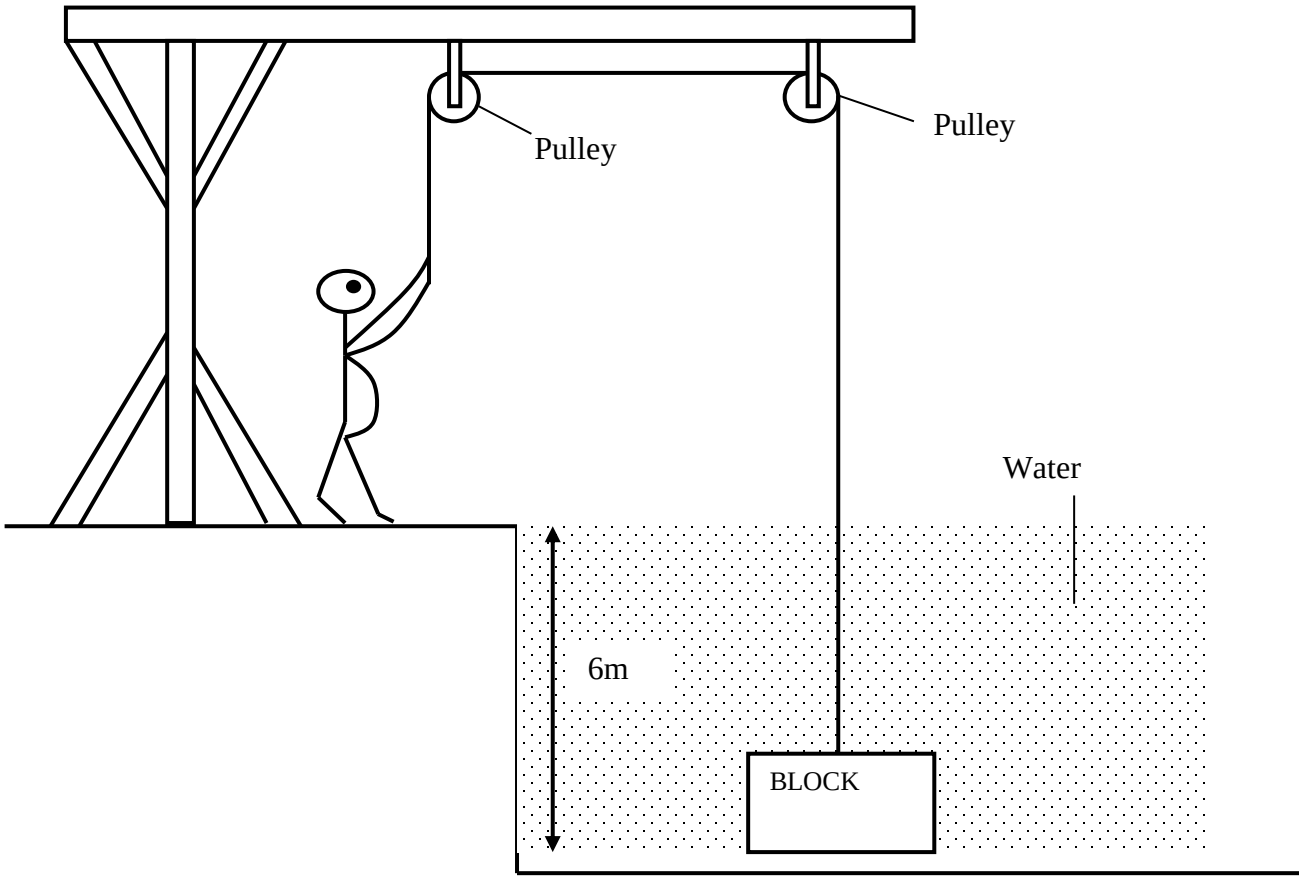
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b) The diagram shows a person raising a concrete block from a river bed by using two pulleys.



As shown in the diagram, the top of the block is 6.0m below the water surface. The density of water is 1000kg/m^3 and the acceleration of free fall is 10m/s^2. Calculate the water pressure acting on the top of the block. **(3 marks)**

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c) The block is raised through water. At one part, the water pressure acting on the top of the block 4.5×10^4 pa. The area of the top of the block is $0.015m^2$. Calculate the downward force exerted by the water on top of the block. **(3 marks)**

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d) When the block is clear of the water, it is raised a further 4.0m. The weight of the block is 550N. Calculate the work on the block as it is raised the 4.0m through air. **(3 marks)**

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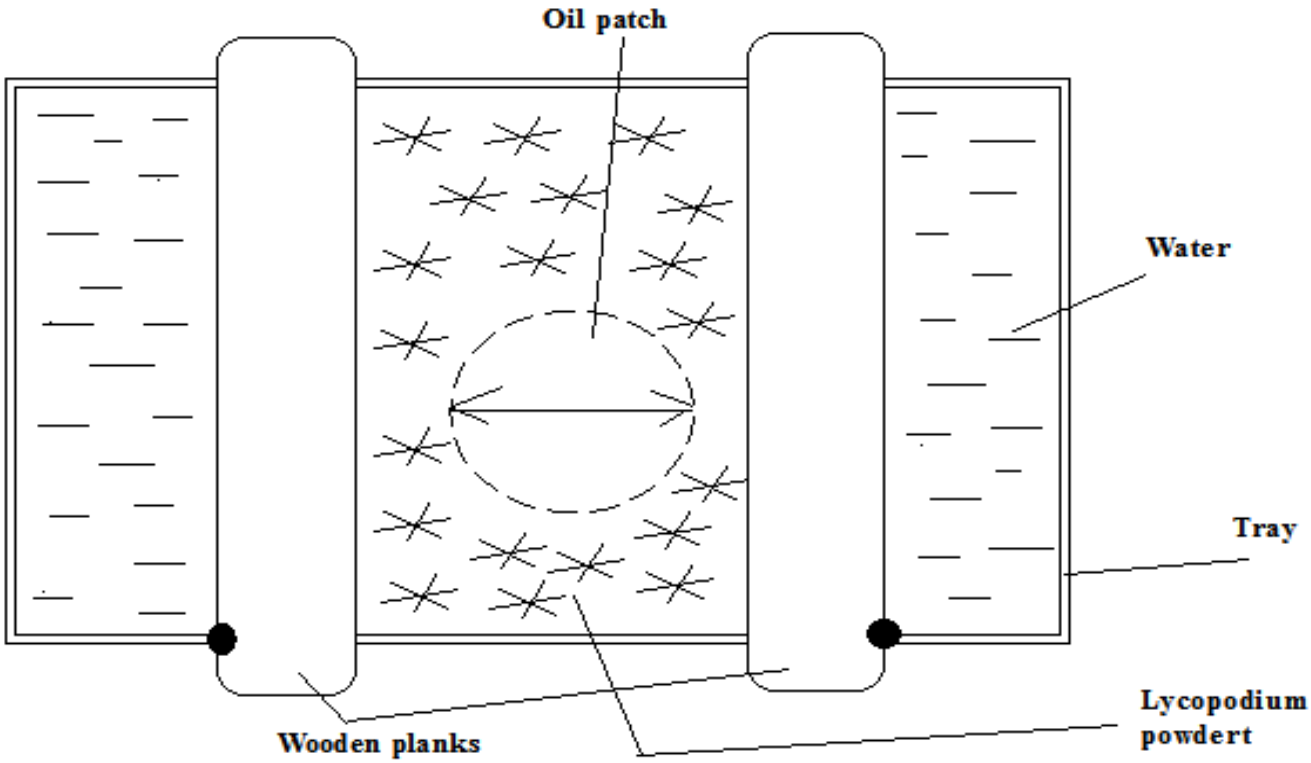
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18. The figure below shows part of an experiment set up to estimate the diameter of an oil molecule.



i) Describe how the oil patch is formed. **(2 marks)**

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ii) What is the role of the Lycopodiumpowder. **(1 mark)**

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b) An oil drop of average diameter 0.7mm spreads out into a roughly circular patch of diameter 73.5cm on the surface of water in a trough.

i) Calculate volume of the drop in mm^3. Take ($\pi = {}^{22}/_{7}$) **(3 marks)**

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ii) Calculate the area of the patch in mm^3. **(2 marks)**

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iii) Calculate the thickness of the oil molecule and express your answer in standard form.**(2 marks)**

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KCSE 2021 PREDICTION

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DATE……

232/2

PHYSICS

PAPER 2

Instructions to candidates

- *This paper consists of two sections A and B.*
- *Answer all the questions in the two sections in the spaces provided after each question*
- *All working must be clearly shown.*
- *Electronic calculators, mathematical tables may be used.*
- *All numerical answers should be expressed in the decimal notations.*

SECTION	QUESTION	MAX MARKS	CANDIDATE'S SCORE
A	1 – 12	25	
B	13	10	
	14	10	
	15	09	
	16	16	
TOTAL		80	

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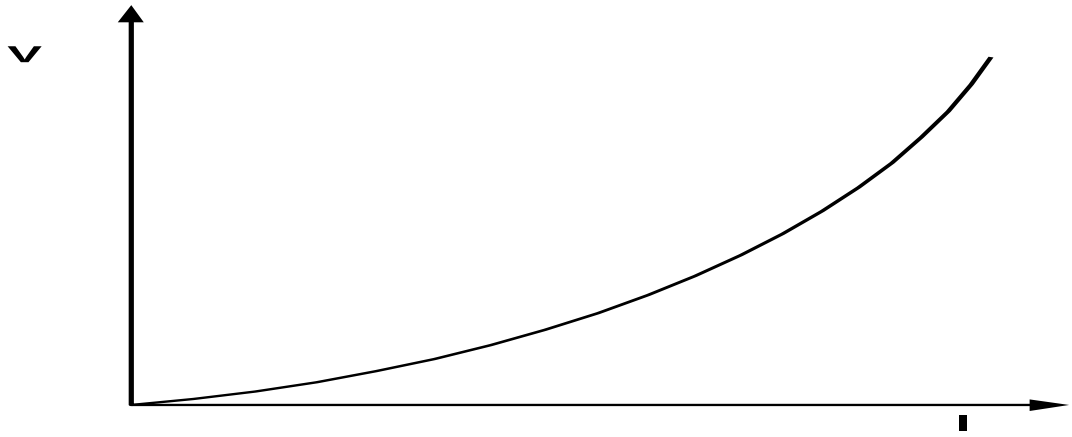
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SECTION A (25 Marks)

Answer ALL questions in this section.

1) Figure 1 shows the V-I characteristic curve of a torch bulb.



Explain the shape of the graph. **(2 marks)**

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2) The size of the pinhole camera is increased. State and explain what happens to the image.

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(1 mark)

3) Define the term sensitivity **(1 mark)**

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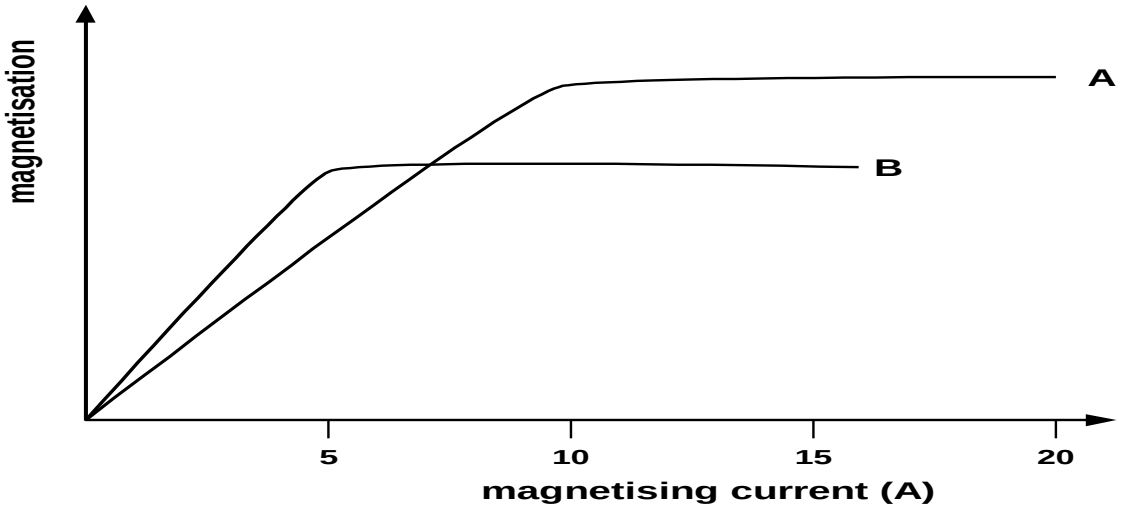
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4) Why is concave mirrors used as a saloon mirror? **(1 mark)**

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5) Figure 2 shows a graph of magnetisation against magnetising current for two materials A and B.



a) State with a reason, the material which is more suitable for use in a transformer to concentrate the magnetic fields. **(2 marks)**

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b) Determine the current required to obtain saturation for the material which is suitable for making a permanent magnet. **(1 mark)**

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6) A beaker of height 10 cm is filled with water. An optical pin which is at the bottom of the beaker is then viewed from the top of the beaker. How far does the pin appear from the surface, if the refractive index of water is $\frac{4}{3}$) **(2 marks)**

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7) An electric heater takes 4 minutes to heat some water to boiling point. How long would it take if the current flowing through it is doubled? **(2 marks)**

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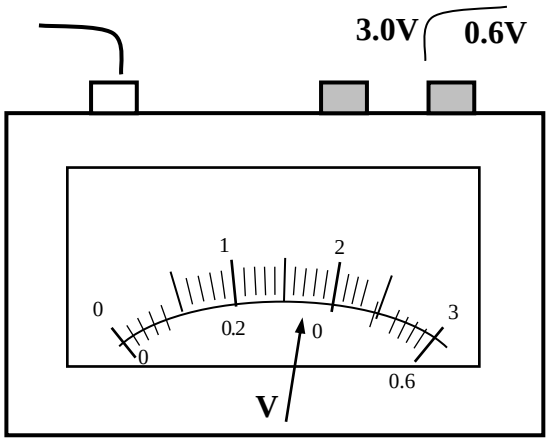
8) (a) State Ohm's law **(1mark)**

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9) (b) The figure **3** below shows part of the scale of a voltmeter, which is being used in an experiment to measure potential difference across a resistor.



(i) State the accuracy of the upper and the lower scales of the voltmeter. **(2 marks)**

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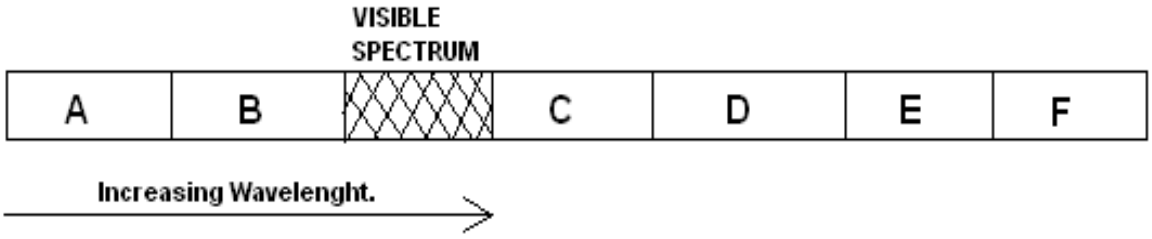
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(ii) Record the reading shown by the lower scale of the voltmeter. **(1 mark)**

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10) The figure 4 shows region of electromagnetic spectrum.



Name the region that representsand give one use of each. **(4marks)**

(a) Ultraviolet

(b) Infrared

(c) X- ray

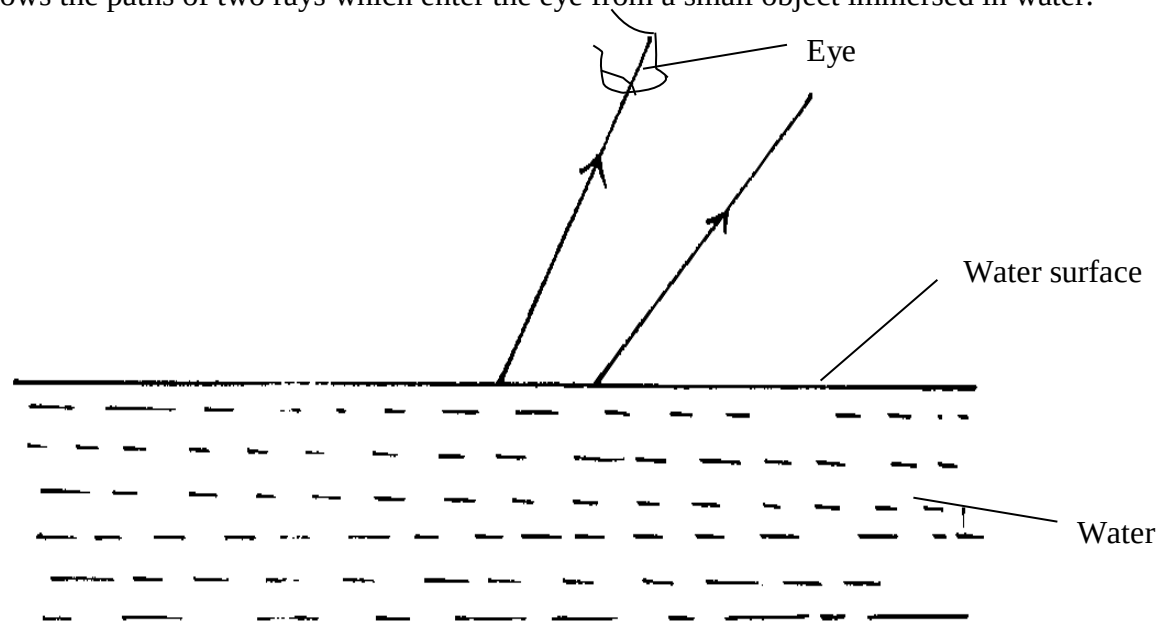
(d) Radio wave

11) State one advantage of optical fibre cable over conventional copper cables as used in telecommunication. **(1 mark)**

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12) Fig 5. below shows the paths of two rays which enter the eye from a small object immersed in water.



Draw rayson the diagram to show a possible position of the object and itsactual position.

(2marks)

13) State two conditions necessary for total internal reflection to occur. **(2marks)**

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SECTION B (55 Marks)

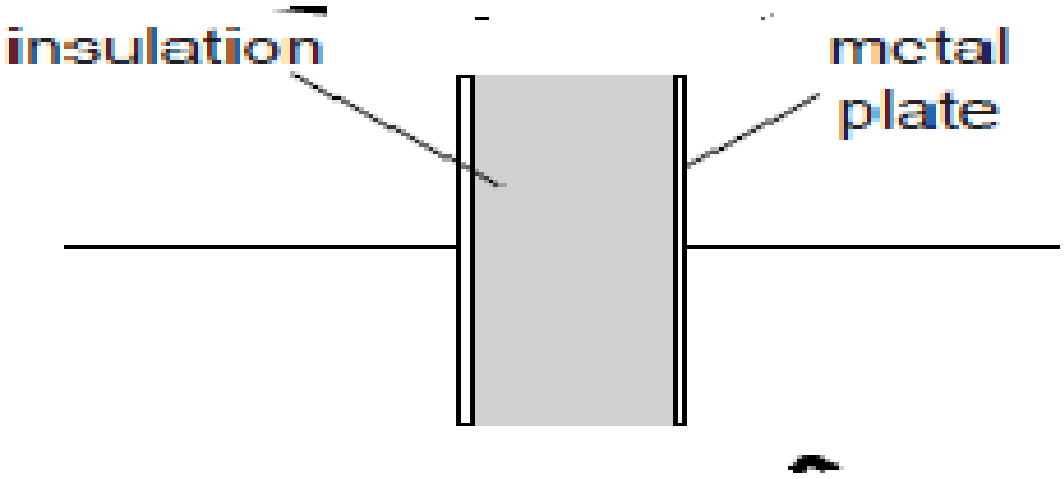
Answer ALL questions in this section.

14)(a) (i) Define capacitance. **(1 mark)**

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(ii) A capacitor is made of two metal plates, insulated from one another, as shown in the Fig 6.



Explain why the capacitor is said to store energy but not charge. **(2 marks)**

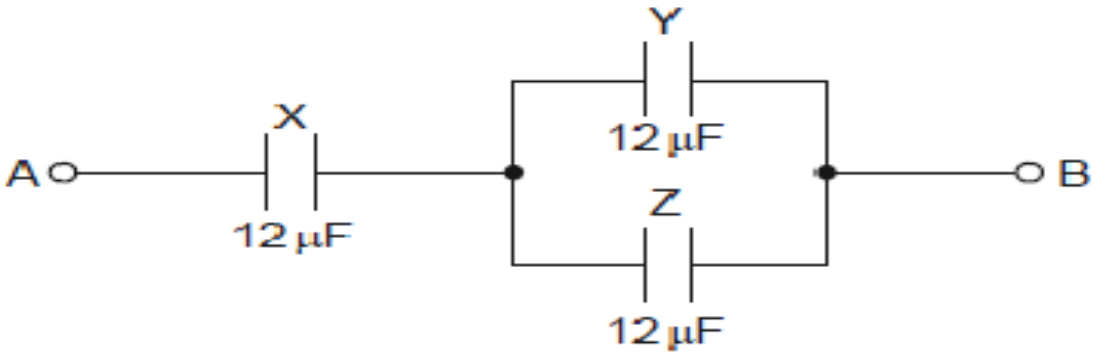
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(b) Three uncharged capacitor X, Y and Z, each of the capacitance 12 microfarads, are connected as shown in Fig 7s below



A potential difference of 9.0V is applied between points A and B. Calculate the combined capacitance of the capacitors X,Y and Z. **(3 marks)**

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(c) Explain why, when the potential difference of 9.0V is applied, the charge on one plate of capacitor X is 72 microcoulombs. **(2 marks)**

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(d) Determine ;

I . the potential difference across capacitor X, **(2 marks)**

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II. the charge on one plate of capacitor Y. **(2 marks)**

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15)A wire was connected to a battery and it was found that the energy converted to heat was 30J when 20 coulombs of charge flowed through the wire in 5 seconds.

Calculate;

(i) the p.d between the ends of the wire. **(2marks)**

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(ii) the current flowing through the wire. **(2marks)**

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(iii) the resistance of the wire. **(2marks)**

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(iv) the average power development in the wire. **(2marks)**

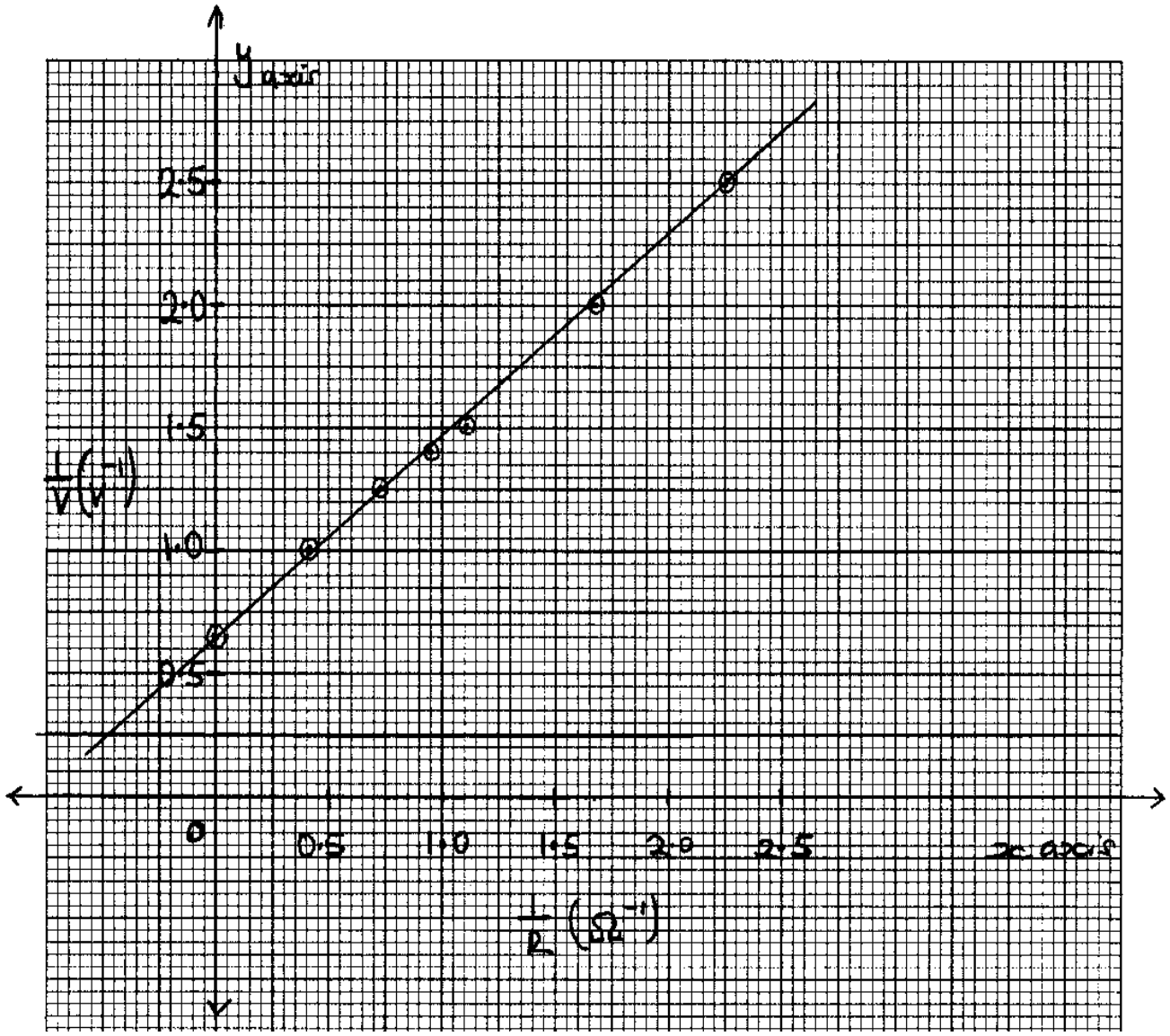
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(16) The graph below shows results obtained in an experiment to determine the e.m.f.(E) and the internal resistance, r, of a cell.



Given that the equation of the graph is $\frac{E}{V} = \frac{r}{R} + 1$

Use the graph to determine the values of:-

(i) E **(2marks)**

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ii) r **(3marks)**

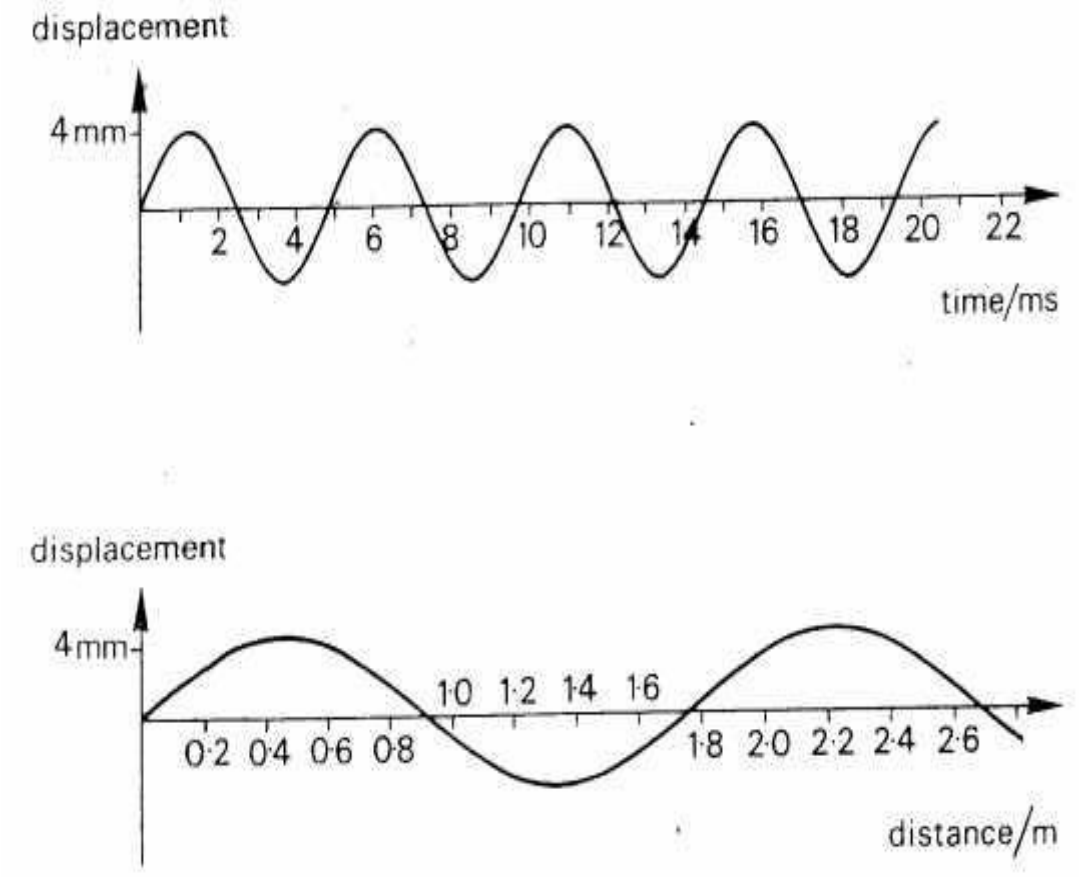
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17) The figure 8 below shows two graphs which refer to thes ame wave.



i) Calculate the speed of the wave. **(4marks)**

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ii) Distinguish between progressive and stationary waves. **(2marks)**

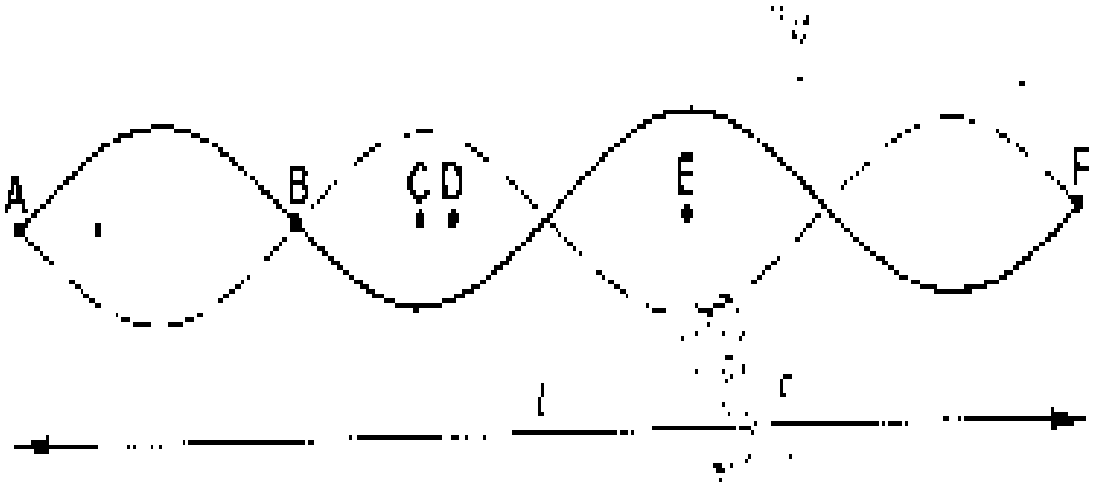
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ii) Figure 9 below shows a stationary wave on a string stretched between two points A and F which area distance *L* apart.



Describe the oscillationsof the points B,C,D and E.Compare these oscillations in terms of their relative phases and amplitudes. **(3marks)**

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iii) What is the wave length in terms of *L*. **(1mark)**

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18)i) State the characteristics of images formed by a pin hole camera. **(2marks)**

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ii) What is the effects on the image when the camera is elongated? **(2mark)**

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(19). The **figure 10** below shows how a white light behaves when it is incident on a equilateral glass prism.

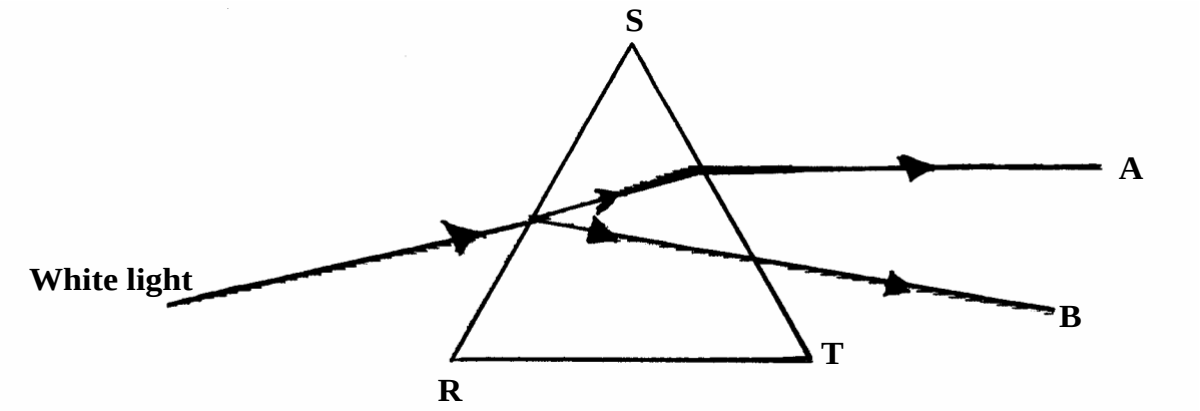


Fig. 10

iii)Explain why it split into different colours between A and B. **(3 marks)**

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iv) Suppose the white light is incident on the face SR normally, **State** and **explain** the observation.

(3 marks)

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19) (a) Define the term principal focus in relation to a thin convex lens **(2marks)**

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(b) Distinguish between a real and a virtual image. **(2marks)**

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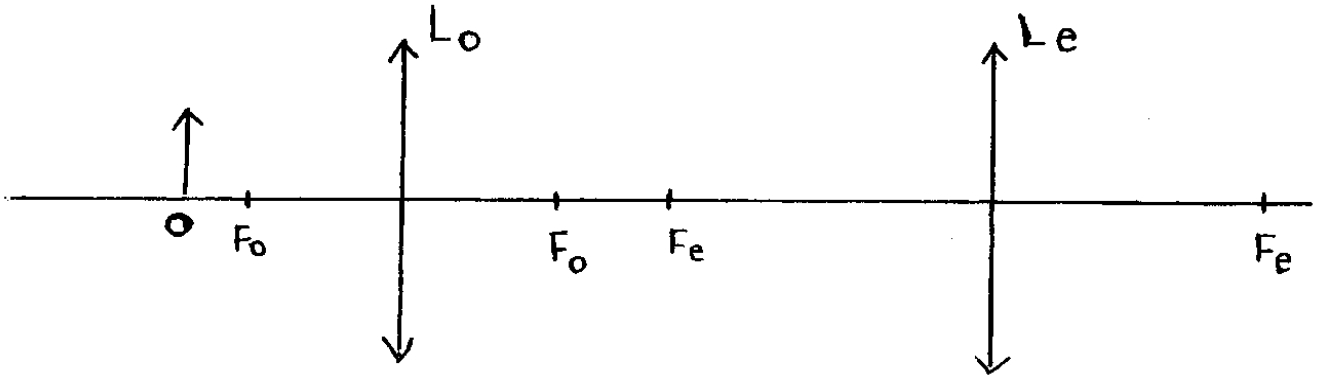
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(c) The Fig.11 below shows an arrangement of lenses, L_o and L_e used in a compound microscope F_o and F_e are principal foci of L_o and L_e respectively.



Draw the rays to show how the final image is formed in the microscope **(3marks)**

(d) The table below shows the object distance, U and the corresponding image distance, V for an object placed

U (cm)	20	25	30	35	40	45
V (cm)	60.0	37.5	30.0	26.3	24.0	22.5
$\frac{1}{u}$ (cm^{-1})						
$\frac{1}{V}$ (cm^{-1})						

(i) **Complete** the table and plot a graph of $\frac{1}{V}$ against $\frac{1}{u}$ (7marks)

(ii) **Determine** the focallength of the lens. (2marks

KCSE Predictions Marking Schemes - **0707550000 / 0705525657**

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KCSE 2021 PREDICTION SET 2

TEL; 0705525657/0707550000

PHYSICS PAPER 3

CONFIDENTIAL

The following apparatus should be provided for the Physics practical paper;

Question one

You are provided with the following:

- 2 new dry cells size D
- A cell holder
- A switch
- A millimeter of range 0 to 1 mA
- A capacitor labeled C (2200μF)
- 8 connecting wires; at least four with crocodile clips on one end
- A stopwatch
- A carbon resistor labeled **R (4.7KΩ)**

Question Two

You are provided with the following;

- a rectangular glass block of dimensions; 9.6cm X 6.0cm X 2.4cm (Tolerance + or – 0.2cm)
- 4 optical pins
- 2 thumb pins
- a soft board
- a plain paper

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KCSE 2021 PREDICTION

NAME…… **INDEX NO…….**

SCHOOL…… **SIGN…….**

DATE……

232/3

PHYSICS

PAPER 3

(PRACTICAL)

TIME: 2 ½ hours

Instructions

- ***Write your name, index number and admission number in the spaces provided above.***
- ***Sign and write the date of examination in the spaces provided above.***
- ***You are supposed to spend the first 15 minutes of the 2 ½ hrs allowed for this paper reading the whole paper carefully before commencing your work.***
- ***Marks are given for a clear record of the observations actually made, their suitability, accuracy and the use made of them.***
- ***Candidates are advised to record their observations as soon as they are made.***

For Examiner's Use Only

Question 1	c	d	g	h	i	(j)	(k)		**TOTAL**	
Maximum Score	1	1	8	5	2	2	1		**20**	
Candidate's Score										
Question 2		c	e	f	g	h	i	j	k	**TOTAL**
Maximum Score		1	6			5	3	3	2	**20**
Candidate's Score										**40**

GRAND TOTAL

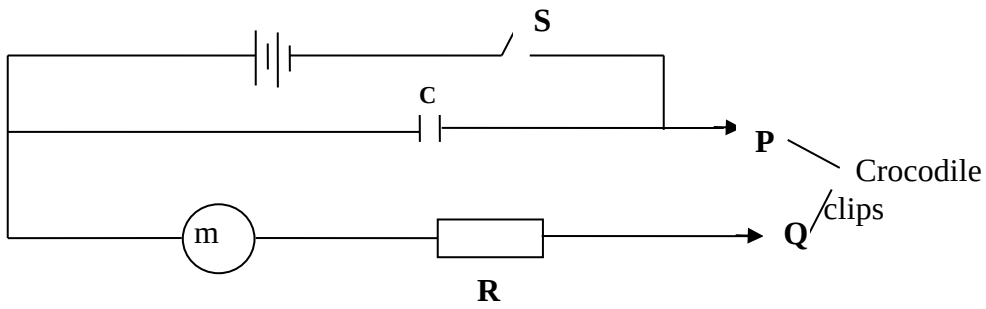
Question one

You are provided with the following:

- 2 new dry cells size D
- A cell holder
- A switch
- A milliammeter of range 0 to 1 mA
- A capacitor labeled C
- 8 connecting wires; at least four with crocodile clips on one end
- A stopwatch
- A carbon resistor labeled **R**

Proceed as follows

a. Connect the circuit as shown in the **figure 1**below, where **P** and **Q** are crocodile clips.



b. Close the switch **S**

c. Name the process which takes place when the switch **S** is closed

……. **(1 mark)**

d. Connect the crocodile clips P and Q. Observe and record the highest reading of the milliammeter $\mathbf{I_o}$ **(** This is the current at $t_0 = 0$)

$\mathbf{I_o}$ **=** ……. mA **(1 mark)**

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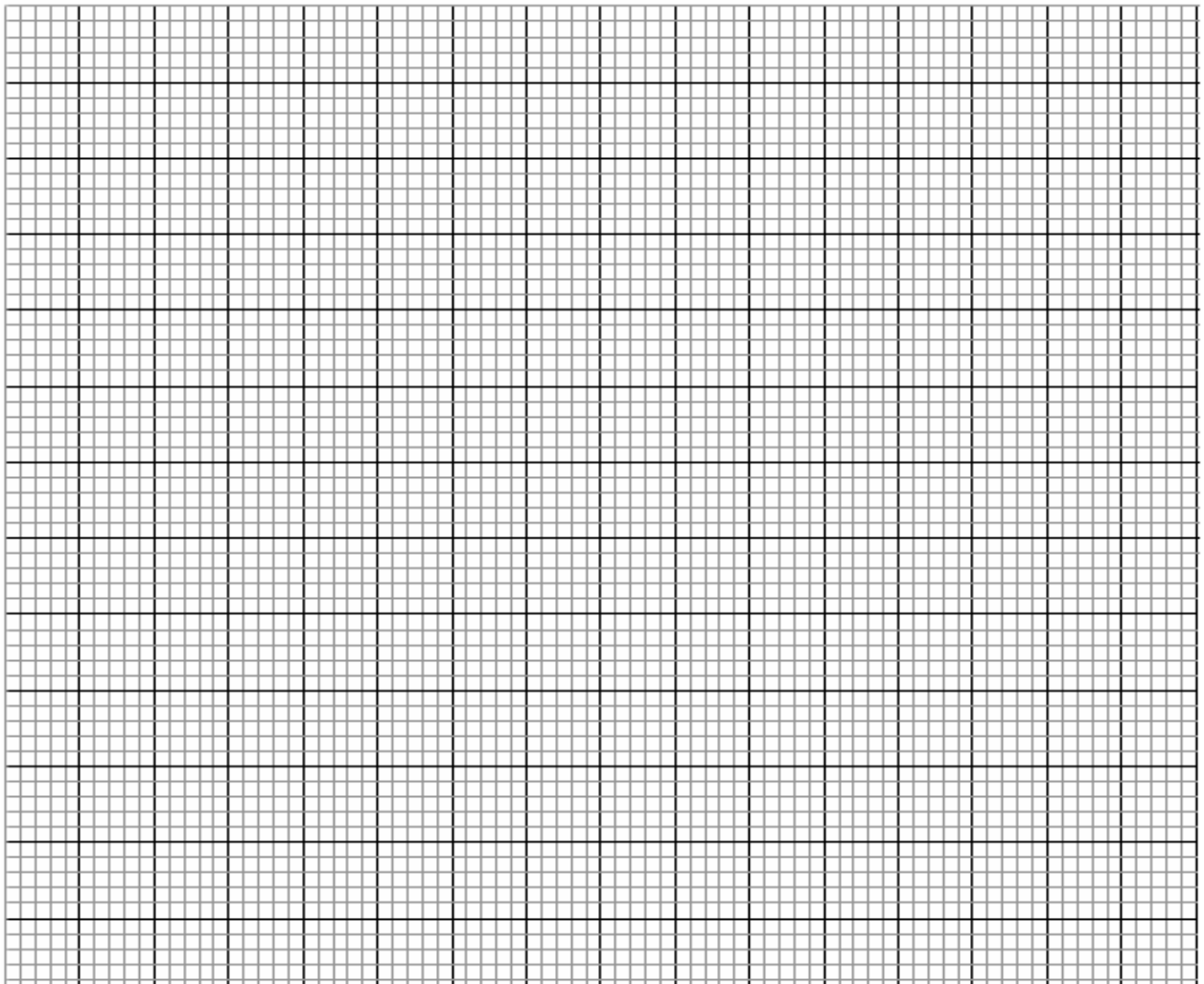
e. While the milliammeter show the maximum value of current I_o, open the switch S and start the stop watch simultaneously. Stop the stop watch when the current has dropped from I_o to 0.5 mA. Read and record in the table below the time taken

f. Reset the stop watch and close the switch. Repeat the procedure in (e) to measure and record the time taken for the current to drop from $\mathbf{I_o}$ to each of the other values shown in the table below.

(5 marks)

Current **I** (mA)	**0.5**	**0.4**	**0.3**	**0.2**	**0.1**
Time **t** (s)					

g. Plot a graph of Current **I** (y – axis)(mA) against time **t** (s) **(5 marks)**



h. From your graph, find **W** the value of **I** when **t = 10s**. **(3 marks)**

i. Given that **A = 10W**, determine the value of **A.** **(3 marks)**

j. Determine the voltage across **R** at **t = 10s** given that R = 4.7kΩ **(2 marks)**

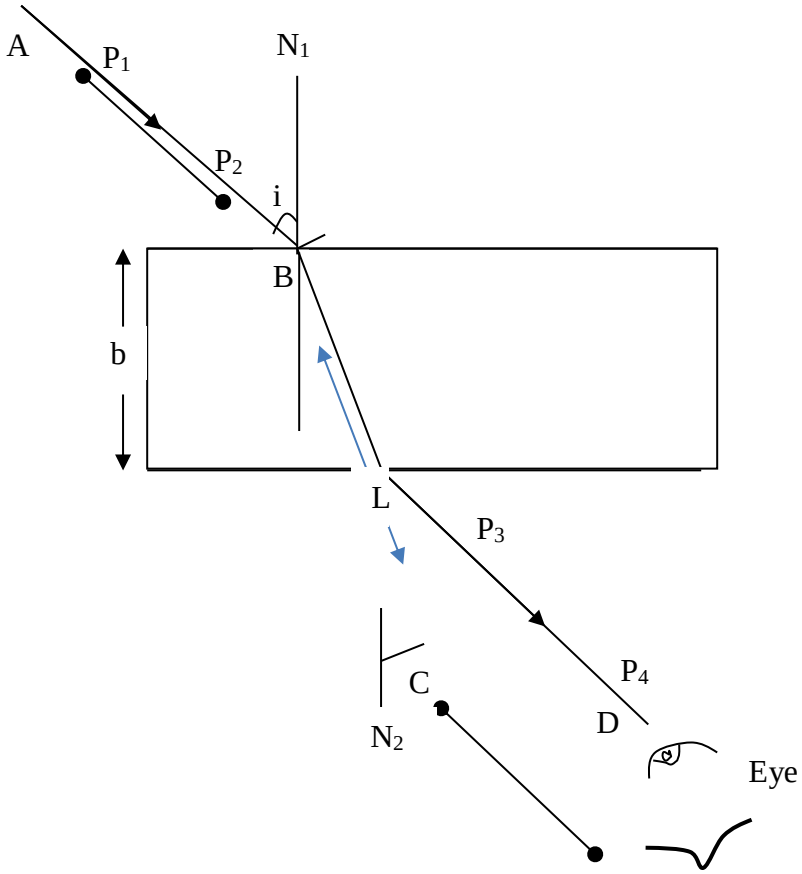
Question Two

You are provided with the following;

- a rectangular glass block
- 4 optical pins
- 2 thumb pins
- a soft board
- a plain paper

Proceed as follows:

(a) Place the glass block on the plain paper with one of the largest face upper most. Trace round the glass block using a pencil as shown below.



(b) Remove the glass block and construct a normal at B. Construct an incident ray AB of angle of incidence, i = 20^0.

(c) Measure the breadth **b** of the glass block

breadth **b** =…… **(1 mark)**

(c) Replace the glass block and trace the ray ABCD using the optical pins.

(d) Remove the glass block and draw the path of the ray ABCD using a pencil.

(e) Measure the length L and record it in the table below

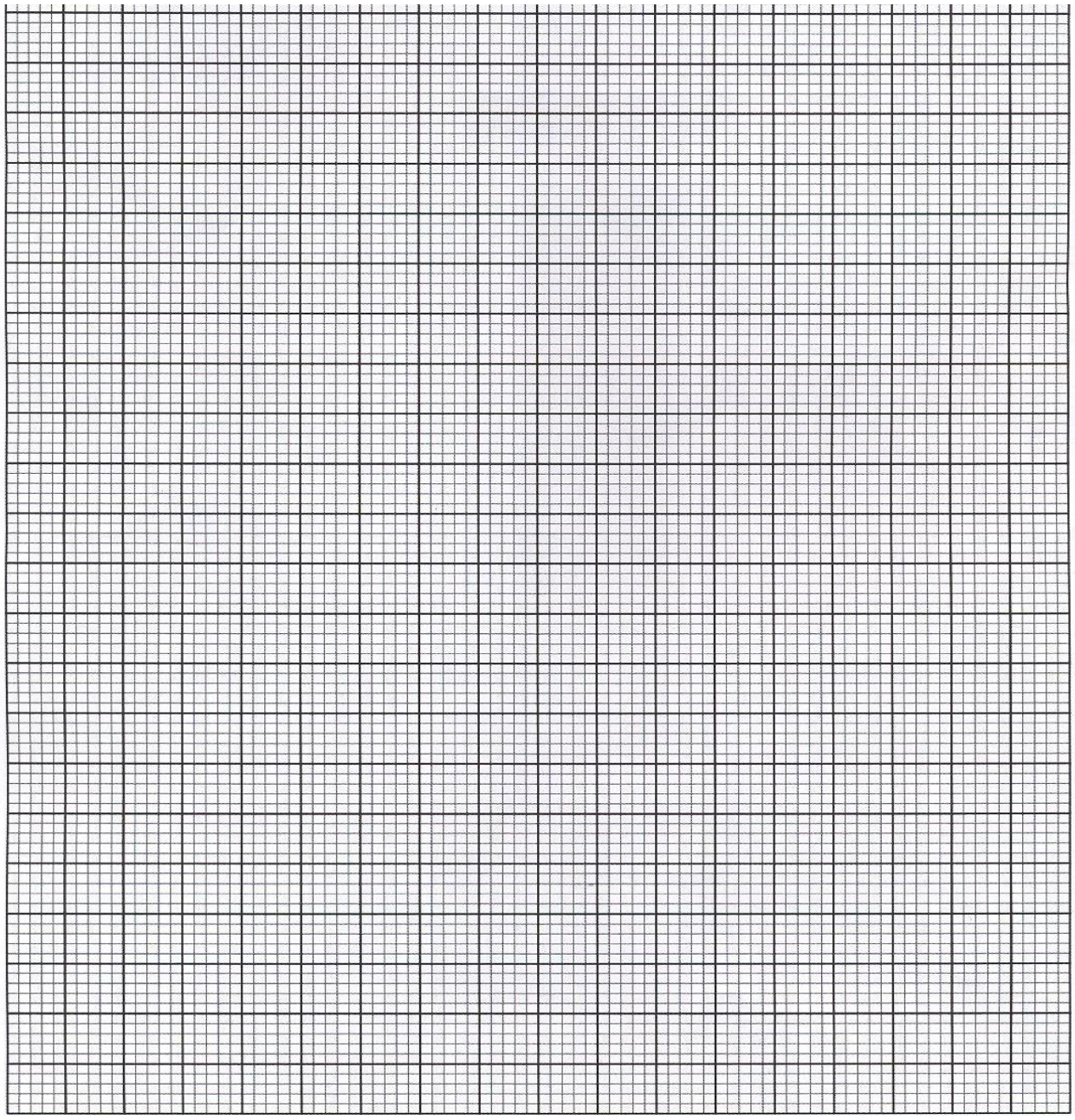
Angle i^0	L (cm)	L^2 $(cm)^2$	$\frac{1}{L^2}$ (cm^{-2})	$Sin^2 i$
20				0.1170
30				0.25
40				0.4312
50				0.5868
60				0.75
70				0.8830

(6 marks)

(f) Repeat the procedure above for the angles of incidence given.

(g) Calculate the values of $\frac{1}{L^2}$ and record in the table above.

(h) Plot a graph of $\frac{1}{L^2}$ (y-axis) against Sin^2i. **(5 marks)**



(i) Calculate the gradient **S** of the graph **(3 marks)**

Given that the equation of that graph is; $\frac{1}{L^2} = -\left(\frac{1}{n^2 b^2}\right) \text{Sin}^2 i + \frac{1}{b^2}$

(j) Determine the value of ***n*** **(3 marks)**

(k) Present your work sheet; attached to the exam paper **(2 mark)**

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KCSE 2021 PREDICTION

NAME…… **INDEX NO…….**

SCHOOL…… **SIGN…….**

DATE……

443/1

AGRICULTURE

PAPER 1

Time: 2 hours

Instructions to Candidates

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

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

*c) Answer **all** the questions ins section **A** and **B***

*d) Answer any **two** questions in section **C***

For Examiner's Use Only

SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
A	1 – 18	30	
B	19-25	20	
C		20	
		20	
	Total Score	**90**	

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SECTION A (30 MARKS)

Answer all the questions in this section in the spaces provided

1. Give **two** ways that can be used to assess soil fertility **(1 mark)**

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2. List **four** methods that can be used to reclaim a water-logged land **(2 marks)**

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3. State **four** reasons why subsoiling is important as an operation of land preparation. **(2 marks)**

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4. Give **two** factors that influence the quality of farmyard manure. **(1 mark)**

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5. State **four** advantages of applying lime as a measure of improving soil condition **(2 marks)**

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6. State **three** functions of Nitrogen in crops. **(1 ½ marks)**

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7. Give **four** factors that can increase seed rate in crop production. **(2 marks)**

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8. State **four** uses of organic mulch in crop production. **(2 marks)**

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9. List **four** characteristics of crops grown for green manure. **(2 marks)**

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10. List **four** advantages of timely harvesting of crops. **(2 marks)**

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11. State **two** advantages of intercropping **(1 mark)**

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12. State **two** conditions under which the opportunity cost is zero in a farming enterprise.

(1 mark)

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13. Give **four** advantages of sprinkler irrigation. **(2 marks**

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14. State **four** disadvantages of weeds in crop production **(2 marks)**

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15. Give **three** reasons for the success of settlement schemes in Kenya after independence

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(1½ marks)

16. State **four** factors affecting the efficiency of pesticides. **(2 marks)**

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17. State **four** factors that influence solifluction. **(2 marks)**

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18. Give a reason for carrying out the following practice

(a). topdressing established crops. **(1 mark)**

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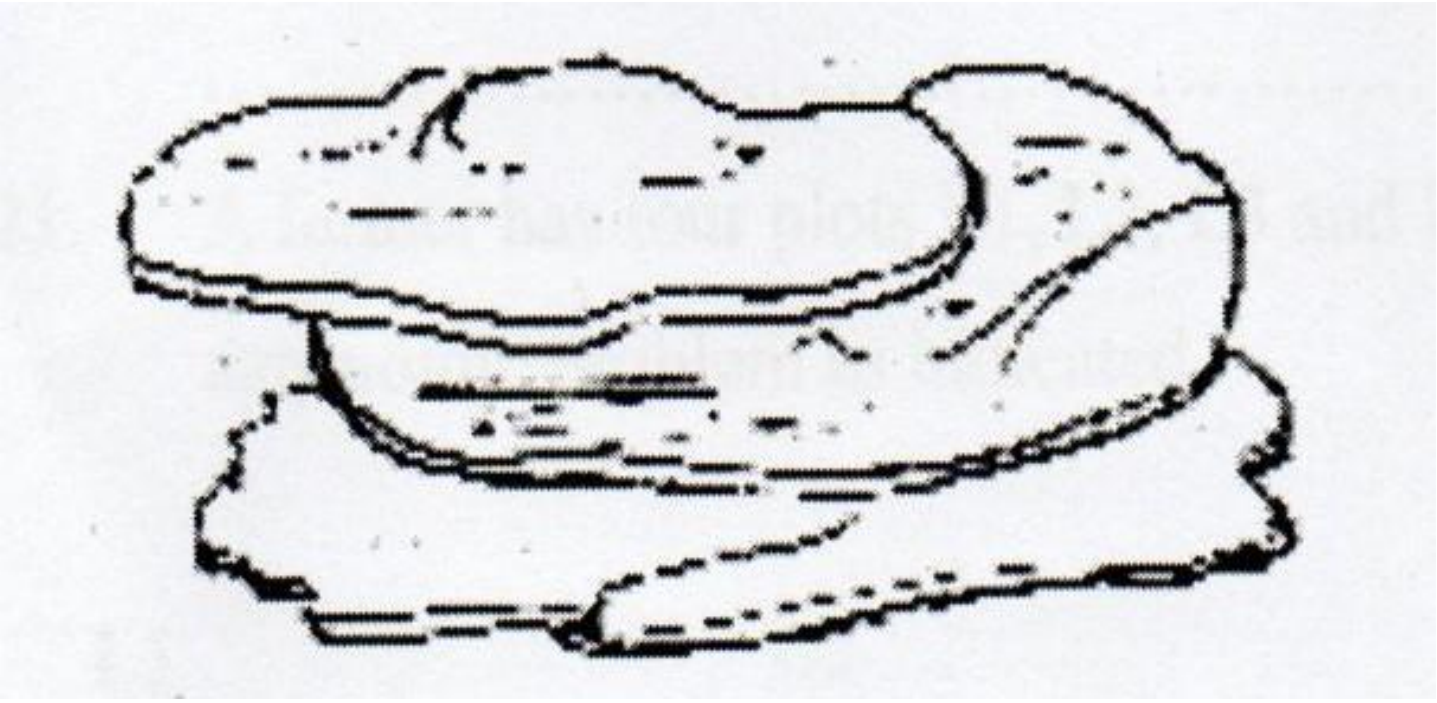
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SECTION B (20 MARKS)

Answer all the questions in the spaces provided

19. Below is a diagram of a type of oil structure. Study it and answer the questions that follow.



(a) Identify the soil structure illustrated above. **(1 mark)**

……

……

(b) Give **one** way in which the structure illustrated above limit crop production.

(1 mark)

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20. Study the illustration given below and use it to answer the questions that follow.



(a) Identify the operation illustrated above. **(1 mark)**

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(b) State **four** reasons for carrying out the operation named in (a) above **(2 marks)**

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21. A farmer has four plots L1, L2, L3 and L4 as shown in the table below. Each plot has an agronomic problem as indicated.

L1	**L2**	**L3**	**L4**
Infected with witch Weed (striga spp)	Infected with bacterial wilt	Deficient in Nitrogen	Prone to soil erosion

(a) Plan a crop rotation programme for the first year in the four plots using the following crops maize, Irish potatoes, Rhodes grass and Beans **(2 marks)**

L1…….

L2…….

L3……..

L4……..

(b). Give reasons to justify the plan you have made in plots L2, L3 and L4. **(3marks)**

L2

……

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L3

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L4

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22. Mr. Mulamba was advised to apply 150kgCAN/ha, while topdressing his maize crop. CAN contains 21%N. Calculate the amount of nitrogen applied/ha **(4 marks)**

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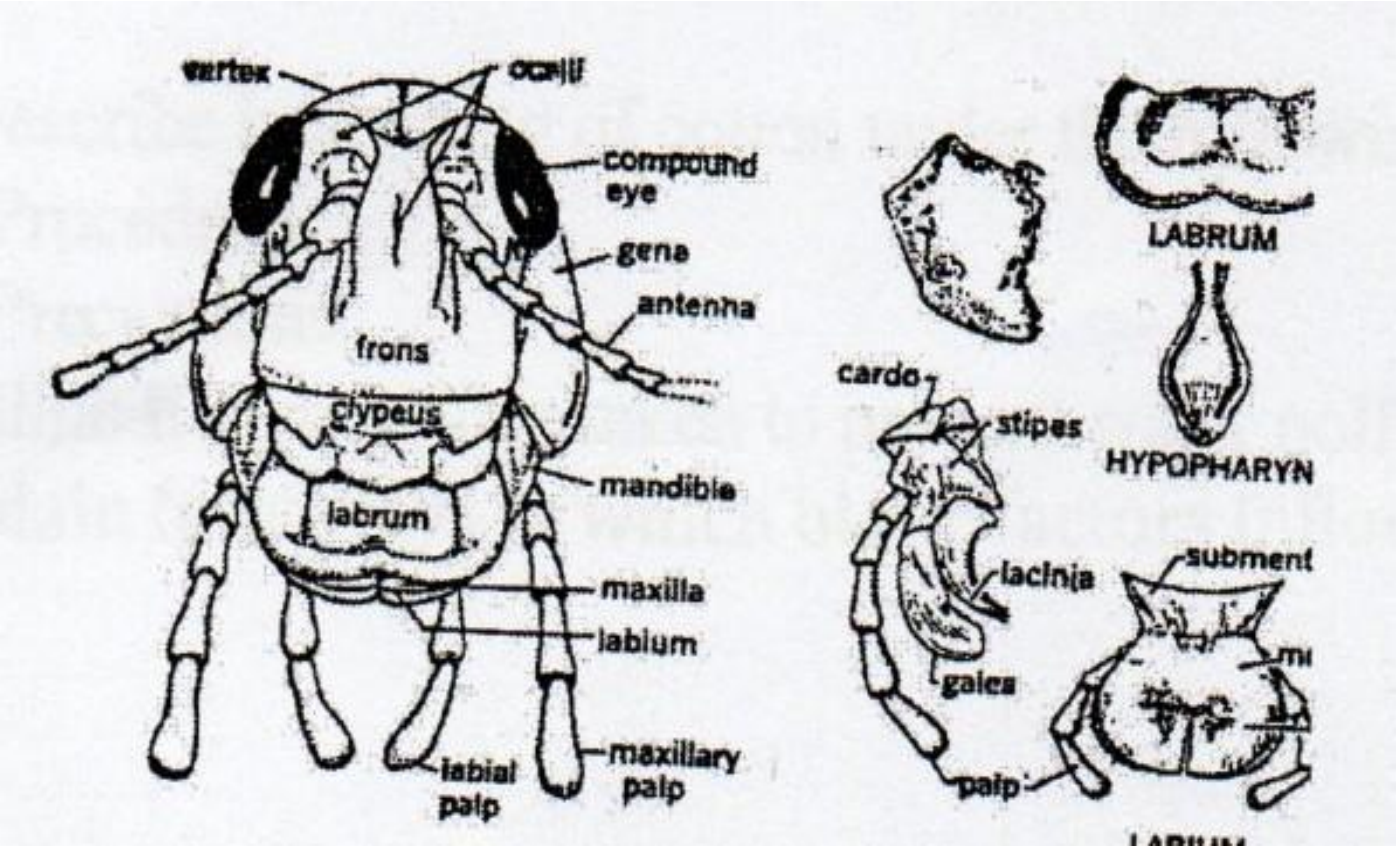
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23. Observe the diagram below and answer the questions that follow.



(a). Identify the mode of feeding exhibited by a pest having such features. **(1 mark)**

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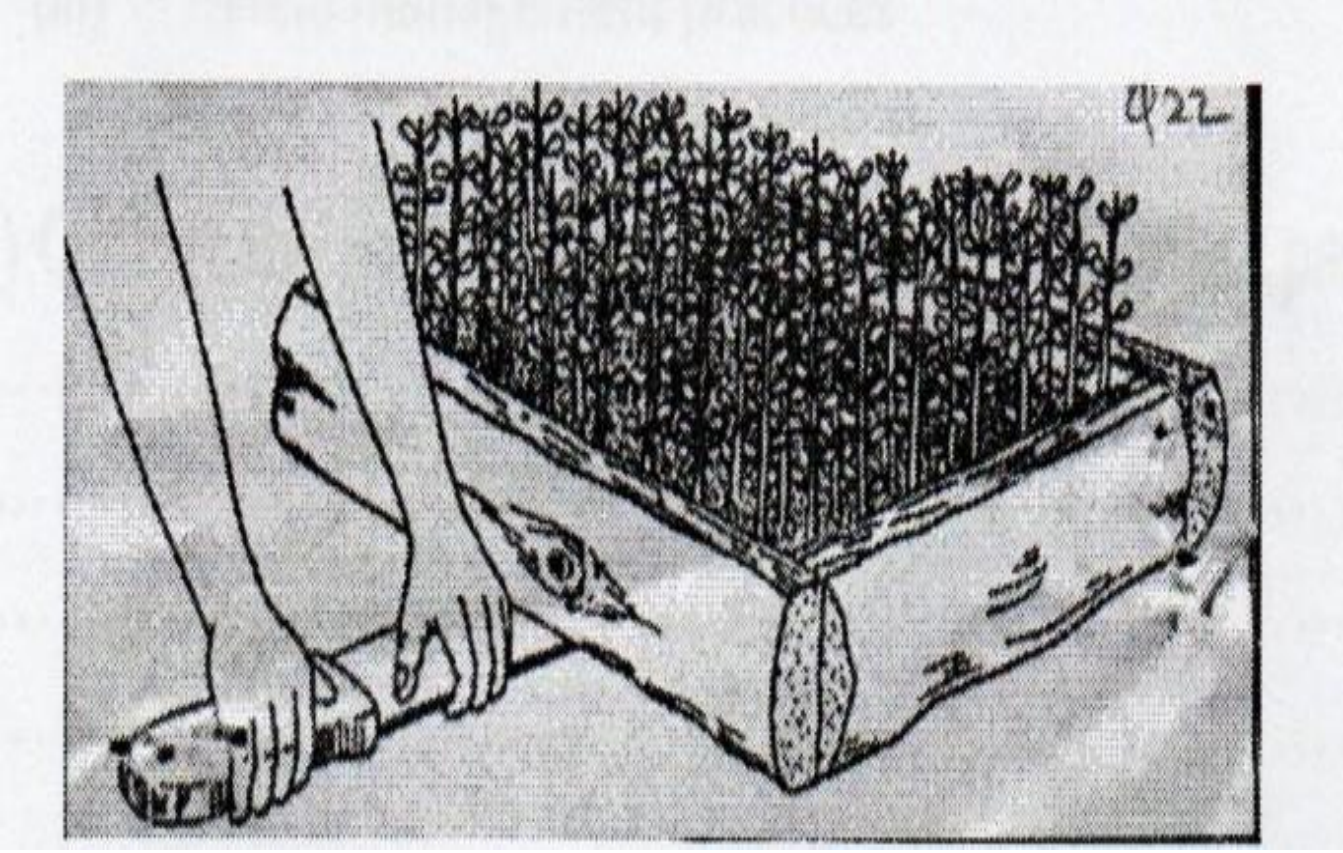
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(b). Name any **two** pests with the above feeding habits. **(2 marks)**

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24. (a) The diagram below shows a nursery management practice carried out on a tree seedling. Study it and answer the questions that follow.



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

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(b). Give **two** reasons for carrying out the practice above. **(2 marks)**

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SECTION C (40 MARKS)

*Answer any **two** questions from this section in the spaces provided after questions.*

25. (a) Describe harvesting of cotton under the following sub-headings

i. Procedure **(3 marks)**

ii. Precautions **(4 marks)**

(b). Outline **five** measures taken to prevent water pollution. **(5 marks)**

(c). Explain **four** ways in which biotic factors influence crop production in Agriculture **(8 marks)**

26. (a). Explain five farming activities which may encourage soil erosion. **(10 marks)**

(b). Explain the importance of a nursery in crop propagation. **(5 marks)**

(c). Give the contributions of settlement schemes to agricultural development. **(5 marks)**

27. Describe the production of beans under the following subheadings:

(i). Field preparation **(4 marks)**

(ii). Planting **(3 marks)**

(iii). Field management practices. **(5 marks)**

(b). Outline the advantages of a mixed grass legume pasture over pure grass. **(8 marks)**

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KCSE 2021 PREDICTION

NAME…… **INDEX NO…….**

SCHOOL…… **SIGN…….**

DATE……

443/2

AGRICULTURE

Paper 2(Theory)

Time: 2 Hours

Instructions to Candidates:

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

b) *This paper consists of **THREE** sections: A, B and C*

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

For Examiner's use only

Section	Questions	Maximum Score	Candidate's Score
A	1 – 18	30	
B	19 - 23	20	
C	24	20	
	25	20	
	26	20	
	TOTAL SCORE	90	

SECTION A [30 MARKS]

Answer All The Questions in The Spaces Provided.

1. Name **four** exotic beef cattle breeds most reared in Kenya. **[2 marks]**

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2. If a sow was successfully served on 27th September 2019, state the date she is likely to have furrowed. **[1mark]**

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3. Give **two** importance of docking in rams. **[1 mark]**

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4. Mention **four** causes of stress in a flock of Birds **(2 marks)**

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5. Name **two** nutritional disease of cattle. **[1 marks]**

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6. State **four** methods of preserving fish. **[2 marks]**

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7. State **four** disadvantages of free range system of poultry rearing. **(2 marks)**

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8. State **four** advantages of a Kenya top bar hive. **[2 marks]**

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9. Name **two** diseases that affect female animals only. **[1 mark]**

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10. Name **four** tick borne diseases **[2 marks]**

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11. State **four** ways of vaccinating livestock. **[2 marks]**

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12. Name **three** notifiable livestock diseases in Kenya. **[1 ½ marks]**

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13. State **four** ways of identifying livestock. **[2 marks]**

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14. List **four** safety precautions taken into consideration when using with farm tools. **[2 marks]**

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15. State **three** causes of piglet mortality. **[1 ½ mark]**

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16. Give **four** characteristics of roughages feeds. **(2 marks)**

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17. Give **four** reasons why camels are suited to living in arid areas. **(2 marks)**

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18. Name the parental breeds of the dorper. **(1 mark)**

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SECTION B [20 MARKS]

Answer all questions in this section in the spaces provided.

19. A poultry farmer has maize containing 8% DCP and Soya beans containing 43% DCP. If the farmer wants to make 100kg of a feed, using the person's method calculate the proportions in which the two ingredients would have to be mixed to make a feedstuff containing 15% DCP. **(Show your working).** **(5 marks)**

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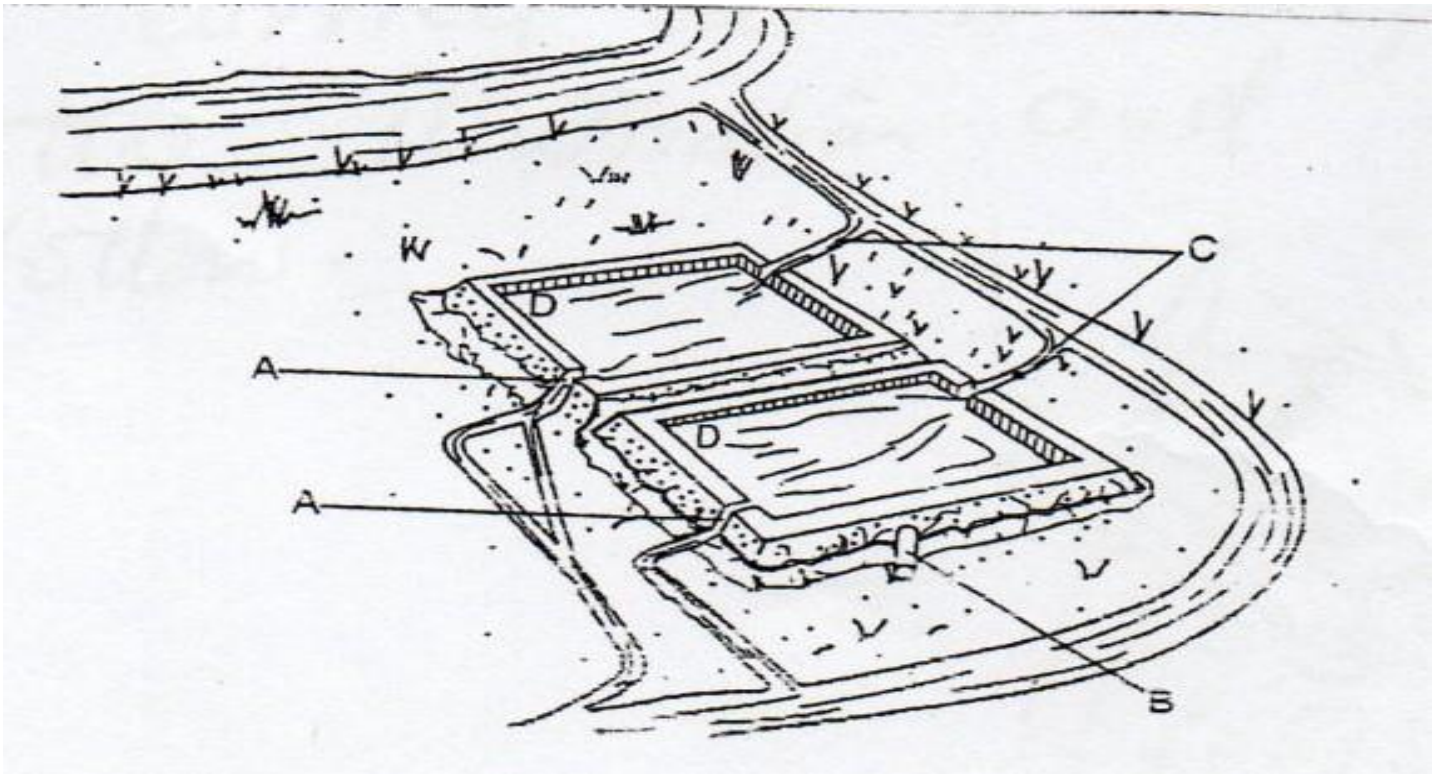
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20. Below is an illustration of a fish pond. Study it carefully and then answer the following questions.



21. a). Give the reason why part D is usually deeper than the rest of the pond. **(1 mark)**

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(b). Name the part labelled A, B and C. **(1 ½ mark)**

A……

B……

C……

(c). State **three** maintenance practices that should be carried out on the fish pond. **(1 ½ mark)**

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(d). Give **two** reason why a fence should be constructed around the fish pond. **(1 marks)**

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22. The following illustration represent a certain practice carried out in sheep management. Study the illustration and answer the questions that follow.



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

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(b). Name the tool being used in carrying out the practice. **(1 mark)**

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(c). State two precautions that should be take when carrying out this practice. **(2 marks)**

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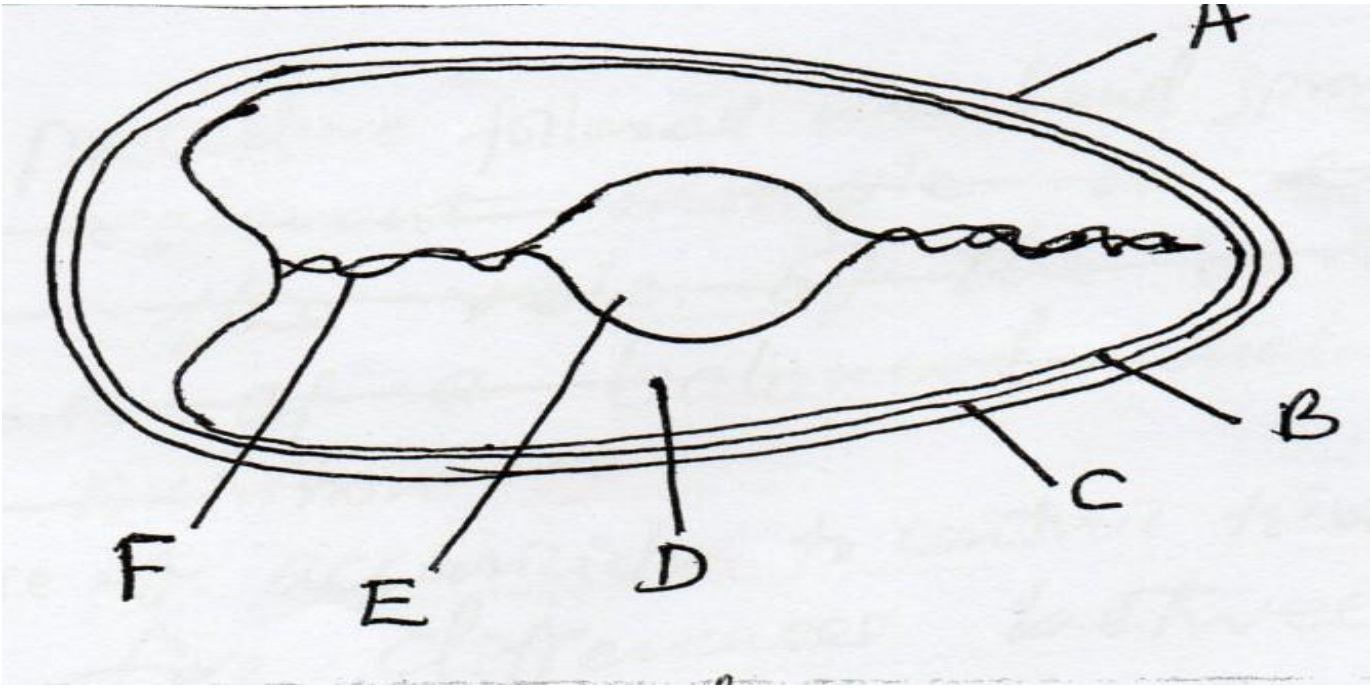
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(d). Name a breed of sheep reared for wool production. **(1 mark)**

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22. The following is diagram of an egg. Study it carefully and answer the questions that follow.



(a). Name the part labelled B,C,D and F. **(2 marks)**

B

C

D

F

(b). State **two** qualities of the part labelled A that should be considered when selecting egg for incubation. **(2 marks)**

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(c). What is the function of the part labelled E in a fertilized egg? **(1 mark)**

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SECTION C. (40 MARKS)

Answer any two questions in this section in space provided at the back..

24. (a). Describe the feeding of bees under bee keeping. **(5 marks)**

(b). Describe the management practices that a farmer should carry out to improve milk production in a low yielding herd of dairy cattle. **(15 marks)**

25. (a). Outline the procedure followed when hand spraying cattle to ensure effective use of accaricide to control ticks. **(10 marks)**

(b). Outline five differences between exotic cattle breeds and indigenous cattle breed. **(5 marks)**

(c). Outline five qualities of a good grain store. **(5 mark)**

26.(a). Describe the role of the various components of a balanced diet in livestock nutrition.**(10mks)**

(b). Give five reasons of keeping livestock healthy. **(5 marks)**

(c). Outline five predisposing factors of mastitis in lactating cows. **(5 marks)**

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KCSE 2021 PREDICTION

NAME…… **INDEX NO…….**

SCHOOL…… **SIGN…….**

DATE……

565/1

BUSINESS STUDIES

Paper 1

Time: 2 Hours

Instructions to Candidates:

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

(b) *Sign and write the examination date.*

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

(d) *Ensure all the pages are printed.*

QUESTIONS

1. Outline four elements that may compromise the internal environment of a business.**(4marks)**

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2. List four characteristics of money. **(4marks)**

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3. Give four assumptions that are associated with perfect competition. **(4marks)**

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4. State four ways in which a warehouse is of importance to a manufacturer. **(4marks)**

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5. Outline four factors that an entrepreneur should consider before setting up a manufacturing business. (**4marks)**

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6. Given the statement in the table below; indicate the type of entry to be made in the relevant ledger accounts. **(4marks)**

Statement	**Types of Entry**
i) An increase in revenue	
ii) A decrease in an asset	
iii) An increase in an expense	
iv) A decrease in liability	

7. Below are some entries in the cash book of Romano Traders for the month of July 2010:

Date 2010	**Details**	**Cash(sh)**	**Bank (sh)**		**Date**	**Details**	**Cash (sh)**	**Bank (sh)**
July 1	Bal b/d	15,000			July 1			10,000
July 6	Cash		20,000		July 6	Bank	20,000	
July 20	Sales		15,000		July 15			
July 28	Debtors	20,000			July 29	Stock		10,000
					July 31	Bal c/d	10,000	

State the meaning of the following entries: - (**4marks)**

a) July 1, 2010 balance b/d, bank column, sh. 10,000

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b) July 6, 2010 cash sh. 20,000 and bank sh. 20,000

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c) July 28,2010 debtors sh. 20,000

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d) July 31, 2010 balance c/d sh. 10,000

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8. State four merits of promoting products through personal selling. **(4marks)**

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9. The aggressive campaign for citizens to plan their families seems to be causing a decline in the country's population growth. Outline four possible effects on this. **(4marks)**

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10. State four functions of commercial attaches. **(4marks)**

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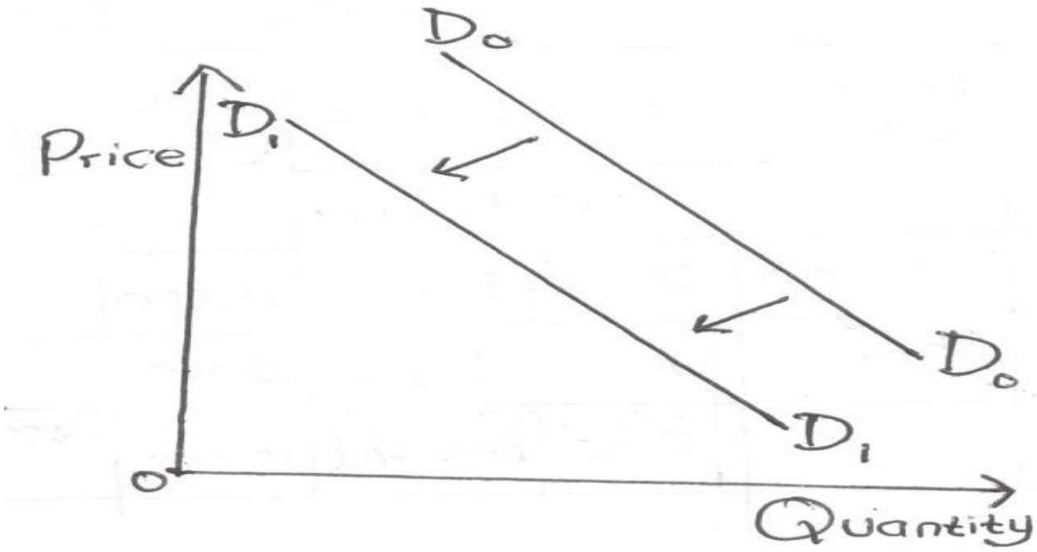
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11. Wanjau started a business with sh. 60,000 as at 1st January 2010. During the year profits and additional investments were sh. 50,000 and sh. 60,000 respectively. At the end of the year, Wanjau remembered that she had taken goods for her personal use and that as at 31st December 2010, her capital was sh. 19,500.

Determine the value of goods that Wanjau had taken for her personal use. **(4marks)**

12. The figure below shows a shift in demand curve from D_OD_O to D_1D_1. State four factors that may have caused the shift. **(4marks)**



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13. Juma Munyacia sells all his goods at 25% above cost. His books gave the following information as at 31st December 2004.

	Sh
Stock 1st January 2004	98,720
Stock 31st December 2004	126,000
Sales for the year	600,000

Calculate the profit made by Munyacia **(4marks)**

14. State four types of source documents. **(4marks)**

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15. Prepare the balance sheet of Baraka traders from the following list of balances extracted from his books as at 31st December 2005. **(4marks)**

	Sh
Machine	150,000
Motor vehicles	200,000
Stock	40,000
Creditors	25,000
Loan from KCB	100,000
Bank	20,000
Furniture	7,000
Capital	292,000

16. Outline four factors that promote the level of national income in a country. **(4marks)**

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17. Highlight four adverse effects of production activities on the environment and community health. **(4marks)**

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18. Mention four circumstances under which an insurance company may re-insure. **(4marks)**

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19. State four elements of communication process. **(4marks)**

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20. In the absence of a written partnership agreement, the provision of the partnership Act will apply. State four such provisions. **(4marks)**

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21. Highlight four features of open-air market trading. **(4marks)**

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22. State four emotional qualities of an office worker. **(4marks)**

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23. State four features of indirect production. **(4marks)**

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24. Outline four factors that may limit the use of containers as a method of transporting goods. **(4marks)**

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25. Describe four characteristics of services. **(4marks)**

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KCSE 2021 PREDICTION

NAME…… **INDEX NO…….**

SCHOOL…… **SIGN…….**

DATE……

565/2

BUSINESS STUDIES

Paper 2

Time: 2 ½ Hours

Instructions to candidates:

1. *This paper consists of six questions*
2. *Answer any five questions*
3. *All questions carry equal marks*
4. *Candidates should check the question paper to ascertain that all the pages are printed and no questions are missing.*

Answer Any Five Questions

1. **(a)** Explain **five** measures which the government can take in order to reduce unemployment. **(10 marks)**

(b) Explain **five** features of a good filing system. **(10 marks)**

2. **(a)** Explain **five** roles played by the central bank in the economy of our country. **(10 marks)**

(b) Discuss **five** circumstances when a business may extend credit to a buyer. **(10 marks)**

3. **(a)** Explain **five** ways in which the efficiency of a warehouse may be guaranteed. **(10 marks)**

(b) On 1st Jan 2017, Dona Traders had sh.110,000 in hand and sh.50,000(cr) Bank. During the month, the following transactions took place:

Jan 2: Cash sales sh.40,000

Jan 3: Paid postage expenses sh.4,100 in cash

Jan 5: Received the following cheques from debtors after they had deducted a cash discount of 2% in each case. Kamau Ksh.2450, Laban Ksh.9604 and Tugi Ksh.2774.

Jan 9: Paid the following creditors in cash and in each case deducted 2% cash discount, Willy Ksh.2000 andYala Ksh.6000

Jan 13: Cash sales directly banked Ksh.10,000

Jan 16: Took Ksh.11,000 from the office and deposited in the business bank account.

Jan 19: Sold goods worth Ksh.18,000 on Credit to Kiyoma.

Jan 21: Received Ksh.18,000 cash from Oman in settlement of Ksh.20,000.

Jan 26: Banked all cash leaving Ksh.4000 only.

Required: Prepare a duly balanced three column cash book **(10 marks)**

4. **(a)** Outline **five** factors that positively influence entrepreneurial practices in Kenya. **(10 marks)**

(b) The Kenya National Bureau of Statistics releases annual publications of national income statistics. Explain five uses of such statistics. **(10 marks)**

5. **(a)** Explain **five** reasons for which traders observe ethical practices in product promotion. **(10 marks)**

(b) Explain **five** factors that may dictate a certain firm to be located near its raw materials source. **(10 marks)**

6. **(a)** Explain **four** reasons why the government may opt to privatize a parastatal. **(8 marks)**

(b) Keme Enterprise had the following credit sales during the first week of March 2020.

March 1st:	Credit sales to the following debtors:
	Omwenga Sh4000, Invoice No. 003, Norah Sh.5000 and Wanjohi Sh.3000.
March 2nd:	Credit sales to Omwenga Sh.500
March 3rd:	Credit sales to Susan Sh.2000
March 4th:	Credit sales to Norah Sh.1000 and Wanjohi Sh.3000

Required:

(i) Record the above transactions in the relevant journal **(7 marks)**

(ii) Post the above transactions in the sales ledger **(3 marks)**

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KCSE 2021 PREDICTION

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451/1

COMPUTER STUDIES

Paper 1 [Theory]

Time: 2 ½ Hours

Instructions to candidates:

[a]. Write your name and index number in the spaces provided at the top of this page.
[b]. Sign and write the date of examination in the spaces provided above
*[c]. This paper consists of **TWO** sections; **A and B***
*[d]. Answer question **16** and **any other THREE** questions from section **B**.*

For Examiner's Use only

Section	Question	Maximum Score	Candidate's Score
A	1-15		
B	16		
	17		
	18		
	19		
	20		
Total score	**100**		

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SECTION A [40 MARKS]

Answer all questions in this section

1. Outline **three** distinctions between a super computer and microcomputer. **[3 marks]**

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2. State four features of fifth generation computers. **[4 marks]**

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3.(a). Explain **two** uses of forms in database design. **[2 mark]**

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(b). i). Define the term control as used in report and form design. **(1 mark)**

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(ii). Explain briefly the difference between bound and unbound controls. **(2marks)**

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4. State any **two** differences between function keys and special keys of a keyboard. **[2 marks]**

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5. In system development, testing is one of the critical stages. Give **three** reasons why the testing phase is critical to the systems developer. **[3 marks]**

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6. Write the following abbreviations in full. **[3 marks]**

i). BCD

ii). ASCII

iii). EBCDIC

7. State **two** properties that an operating system display about a file. **[1 mark]**

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8. Differentiate between Computer Aided Design CAD and Computer Aided Manufacture (CAM).

[4 marks]

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9. (a). Distinguish between a primary key and index key as used in databases. **[2 marks]**

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(b). Explain the relevance of foreign key in a database entity. **(1 mark)**

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10. List **three** differences between laser printer and a dot matrix printer. **[3 marks]**

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11. Name an input or output device used in the following tasks. **(2 mark)**

a). Capturing still images

_____

(b). Printing detailed architectural designs

_____

(c). Playing flight and driving games

_____

(d). Capture data at ATM

_____

12. What is the use of the search and replace feature in a word-processor. **(1 mark)**

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13. State two ways in which a computer may be used in efficient running of a hospital. **(2 marks)**

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14. The formula = $A4*C$3 was entered in cell D4. What will be the formula if it is copied to cell F10. **[1 marks]**

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15. Name any three methods that can be used to test a program of errors. **(3 marks)**

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SECTION B [60 MARKS

Answer question 16 and any other three questions from this section.

16.[a]. Design a flowchart for a simple program that can be used to categorize people according to age. If the person is above or equal 18 years, output "Adult" otherwise output "Young".

(8 marks)

(b). What is the difference between looping and selection? **(2 marks)**

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[c]. Name the stage of program development cycle when: **[2 marks]**

(i). A user guide would be written

_____

(ii). A programmer dry-turn the code

_____

(iii). System charts would be drawn

_____

(iv). Staff training is done

_____

(d). State the three translators used in programming. **(3 marks)**

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17.(a). Define the term data communication. **(1 mark)**

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(b). Explain the following terms as used in data communication. **(2 marks)**

(i). Bandwidth

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(ii). Attenuation

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(c). Explain the following three types of computer networks. **(3 marks)**

i). LAN

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ii). MAN

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iii). WAN

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(d).i). What are robots? **(1 marks)**

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(ii). Outline any four advantages of using robots in industries over human beings. **(2 marks)**

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(e). Describe the following communication modes giving an example in each case. **(6 marks)**

(i). Simplex

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(ii). Half duplex

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(iii). Full duplex

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18. [a]. List two characteristics of good information. **[2 marks]**

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(b(i). What is a database management system? **[1 mark]**

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(ii). State and explain three database models. **(3 marks)**

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c). Describe the following types of files.

(i). Master file **(2 marks)**

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(ii). Backup file **(2 marks)**

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(iii). Transaction file **(2 marks)**

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d). Explain the file organization methods given below.

(i). Serial **(1 mark)**

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(ii). Indexed sequential **(1 mark)**

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(iii). Random **(1 mark)**

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19. (a). A shopkeeper of a small shop at Longisa has bought desktop computer to assist him in performing his business activities. He has been advised that before he can use it to work he has to install it with an operating system. State any six factors to consider when choosing the operating system. **[6 marks]**

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b). With reference to disk management explain what is meant by the terms below.

i). Formatting **(1 mark)**

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ii). Defragmentation **(1 mark)**

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iii). Disk partitioning **(1 mark)**

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c). Give any two reasons that may make the shopkeeper to partition the computer disk. **[2 marks]**

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(d). The shopkeeper one day switched on the computer and experienced a number of problems with windows operating system that he had installed. The problems included failure to load the operating system during the booting. After several trials of switching on the computer, it hangs so often alongside abnormal restarting. State any four possible causes for the computer's behaviour**.(4 mks)**

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20. (a) Describe the octal number system. **(2 marks)**

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(b). Convert each of the following to the number system indicated:

i). 111.101_2 to decimal; **(3 marks)**

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(ii). 14.6875_{10} to binary **[4 marks]**

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(c). Convert the number -17_{10} into 8-bit:

(i). signed magnitude representation; **(2 marks)**

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(ii). two's complement **(2 marks)**

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(d). Perform the arithmetic operation. **(2 marks)**

$110.11_2 + 11.011_2$

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KCSE 2021 PREDICTION

NAME…… **INDEX NO…….**

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451/2

COMPUTER STUDIES

PAPER 2

(PRACTICAL)

TIME: 2 ½ HOURS

Instructions to candidates

1. *Type your name and Index No at the top right hand corner of each printout.*
2. ***Write your name and Index No on the CD-R /CD-RW***
3. *Write the name and version of the software used for each question attempted in the answer sheet.*
4. *Passwords **should not** be used while saving in the CD.*
5. *All answers must be saved in your CD.*
6. *Make printouts of the answers on the answer sheets provided*
7. *Hand in all the **printout** and the **CD***
8. *Candidates may be penalized for not following instruction given in this paper*
9. *Arrange your printout and staple them together.*

1.

(a). Type the following letter as it appears in a word processor. Use the mail merge feature to produce copies of the same letter to the persons whose details are given below.

(12 marks)

MWANGAZA HIGH SCHOOL

P.O. BOX 4800

KERICHO

8TH FEBRUARY 2022

<NAME>,<ADMNO>,

<ADDRESS>

<TOWN>

Dear <NAME>

REF: 2021 KCSE RESULTS.

I am happy to inform you that the NOV-DEC Examinations are out. Kindly arrange to visit our school on <Date to visit> at 9.00 a.m in order to know the details. Remember to carry your original KCPE certificate and examination registration card bearing the index number.

Yours's truly,

Head teacher

Data source (List of Candidates)

Name	Adm.No	Address	Town	Date to visit
Mark Otieno	8074	P.O. BOX 24	Sondu	02/03/2022
Kevin Kirui	8189	P.O. BOX 172	Kericho	08/03/2022
Bernard Soi	8065	P.O. BOX 84	Bomet	24/03/2022

Required:

i) Save Main document as Main Doc **(1 mark)**

ii) Save Data source as Data source **(1 mark)**

iii) Change the addresses and reference font size to 14pts **(1 ½ marks)**

2. Perfect Pizza Factory manufactures pasta for distribution to restaurants in Nairobi. Assuming that you are now working for the factory and have been given the following sales data:

	A	B	C	D	E	F	G	H	I
1	Restaurants	July	August	September	October	November	December	Total product sales	Average
2		34567	45671	89650	67222	56113	96282		
3	Nankos	100000	97600	82199	105999	140664	190654		
4	Burgees	96543	97600	82199	105999	140663	190654		
5	Kenge	65000	97600	82199	105669	140663	190654		
6	Tika	103456	97645	82297	105669	140220	175000		
7	Appetos	76899	85400	96709	101324	140882	181230		
8	Marries	98000	97600	82199	105999	140663	190654		

9	Generals	25000	19654	15222	8000	5602	200		
10	My Café	86777	75432	84366	105999	55678	201345		
11	Shooters								
12									
13									
14	Total Monthly sales								

(iv). **Underline** the reference **(1/2 mark)**

(v). **Merge** the letter onto main document so as to produce copies for all the three candidates and save it as 'Results 2019'. **(6 marks)**

(vi). **Print** the letters **(3 marks)**

(b). **Type** the following text in a word processing software. **(22 marks)**

INTRODUCTION TO COMPUTERS & OPERATING SYSTEMS

A computer is a machine or an electronic device that can solve problems by accepting data, performing certain operations on that data (processing) and presenting the results of those operations (Information) Basic characteristics that distinguish a computer from other information processing devices:-

(i) A computer is electronic- That is, all it processing operations are carried out with electrical signals

(ii) A computer can store information for future reference. This is done on temporary basis with memory circuits and permanently with storage devices such as magnetic disks and tape.

(iii) A computer is programmable – unlike other devices built to perform a single function, a computer can be instructed or programmed to perform a variety of tasks.

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HOW A COMPUTER OPERATES

Converting the data (raw facts) into information (Organized, usable form) is called data processing.

Data get into the system by means of an input device.e.g keyboard then the computer performs the necessary calculations or manipulations on the data and finally the organized information is displayed by an output device e.g. a monitor.

FUNCTIONS PERFORMED BY A COMPUTER

Although computers have many applications, they can perform only three basic tasks.

(i). Arithmetic functions on numeric data (adding, subtracting, multiplying and dividing)

(ii). Test relationships between data items (by comparing values)

(iii). Store and retrieve data

These skills are really no more than people can do, but the computer can accomplish the task more;

- Faster
- Accurately
- Reliably

Required:

(a). Align the title to the centre and underline it. **(1 marks)**

(b). Add border to the title **(2 marks)**

(c). Replace all the Roman numbers with bullets. **(2 marks)**

(d).

(i) Insert the footer "End of Term One Examination 2021". **(2 marks)**

(ii) Insert the header "Your name and index No" **(2 marks)**

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KCSE 2021 PREDICTION

NAME…… **INDEX NO…….**

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DATE……

441/1

HOME SCIENCE

Paper 1

Theory

Time: 2 ½ Hours

Instructions to candidates:

1. *Write your name, Index No in the spaces provided above.*
2. *This paper consists of sections A, B and C.*
3. *Answer all question in section **A and B**and **any two** questions from **section C.***
4. *Answers to **ALL** questions **MUST** be written in this booklet*

Examiner's use only

Section	Question	Maximum score	Candidate's score
A	1-21	40	
B	22	20	
C		20	
		20	
TOTAL SCORE		**100**	

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SECTION A

Answer all the questions in this section in the spaces provided- [40 marks]

1. State two ways of meeting the physical need of a patient recuperating at home. **[2 marks]**

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2. **What** does daily cleaning involve? **[1 mark]**

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3. **Give two** reasons why it is important to repair clothes. **[2 marks]**

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4. **Mention two** disadvantages of Braising as a cooking method. **[2 marks]**

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5. **Give two** demerits of using hard water when washing clothes. **(2 marks)**

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6. **State two** causes of premature birth. **[2 marks]**

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7. **Define** the term interfacing **[1 mark]**

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8. **List down two** factors to consider when setting the table **[2 marks]**

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9. State two ways through which safe parenthood is achieved. **[1 marks]**

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10. Give two advantages of using solar as a source of fuel. **[2 marks]**

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11. List down the three main methods of attaching collars to neck line. **[3 marks]**

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12. Give two factors to consider when planning for the lighting of various rooms in the home.

[2 marks]

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13.Mention two dangers of poor ventilation in a room. **[2 marks]**

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14.State two disadvantages of advertisements. **[2 marks]**

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15.Mention three minerals found in milk **[3 marks]**

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16.Give two functions of a clothes horse. **[2 marks]**

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17. **Give two** undesirable properties of silk that make it unsuitable for underwear. **[2 marks]**

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18. The diet of elderly persons is affected by the physiological changes which occur in the body at this stage. **State two** of these changes. **[2 marks]**

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19. **Mention two** points on the precautions to take when a child has diarrhea. **(2 marks)**

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20. **Define** the term weaning **(2 marks)**

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21. Give two causes of puckering of the material during stitching. **(2 marks)**

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SECTION B – [20 marks)

COMPULSORY QUESTION

Answer this question in the spaces provided at the end of section C

22. You are planning to host small children who will attend your younger brother's birthday Party.

(a). Giving reasons outline the procedure you will use to thoroughly clean a plastic table to be used by the children. **(6 marks)**

(b). Outline the steps to follow when laundering your brother's acrylic socks. **(9 marks)**

(c). Outline the procedure to follow when cleaning a plain wooden chopping board that you will use. **(5 marks)**

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SECTION C [40 marks]

Answer any TWO questions from this section in the spaces provided at the end of this section.

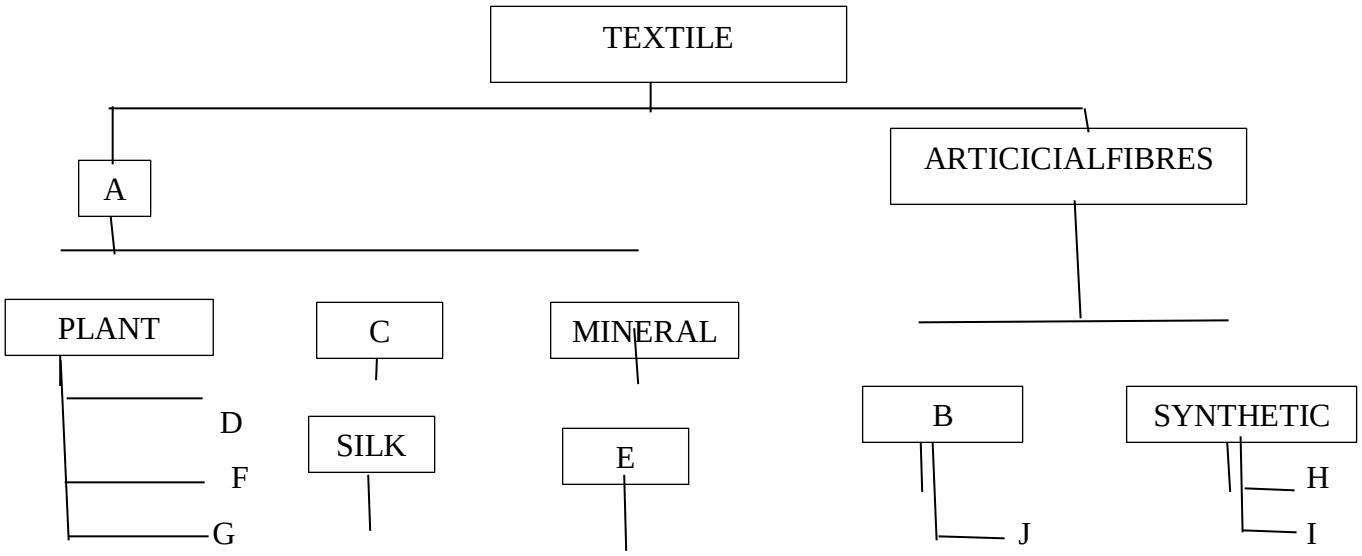
23. [a]. Explain three factors that determine the choice of a seam **(6 marks)**

[b]. Mention four qualities of a well-made seam **(4 marks)**

(c). Briefly explain the procedure of making an open seam. **(6 marks)**

(d). Give four methods of finishing a hem. **(4 marks)**

24. (a). Fill in the missing information. **[10 marks]**



(b). (ii). Discuss typhoid under the following stub-headings

(a). Cause **(1 mark)**

(b). Signs and symptoms of typhoid **(3 marks)**

(c). Prevention and control. **(6 marks)**

25. (a). Give **four** reasons why food should be stored properly **(4 marks)**

(b). Explain **four** traditional methods of preserving foods **(8 marks)**

(c). Mention **five** symptoms of food poisoning. **(5 marks)**

(d). Mention **three** desirable qualities of a container for storing drinking water. **(3 marks)**

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KCSE 2021 PREDICTION

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441/2

HOMESCIENCE

Paper 2

Practical

Time: 2 ½ Hours

INSTRUCTIONS

A pattern of a child's dress is provided. You are advised to study the sketches, the question paper and the layout before you begin the test.

MATERIALS PROVIDED

1. Pattern pieces.
   A - Blouse front
   B - Blouse back
   C - Pocket Front shirt facing
   D - Collar
   E - Sleeve

NB. Interfacing for the collar should be cut from same fabric using the collar pattern.

2. Light weight plain cotton fabric **45cm** long by **90cm** wide.
3. Sewing thread to match the fabric.
4. elastic **12cm** long and **1cm** wide.
5. One large envelop and bodkin needle/safety pins.

THE TEST

Using the materials provided, cut out and make up the left half of the blouse/bodiece to show the following;

a) Making of a double stitched seam at the shoulder, on the RS

b) Making of the side seam using an open seam.

c). Neatening of the facing.

d). Preparation of an interfaced collar.

e). Preparation and attachment of the collar by sandwiching it between the facings.

f). Preparation and attachment of the patch pocket.

g). Management of the hem using slip hemming stiches (**blouse front only)**

h). Making of a button hole by hand.

i). Making a casing at the hem of the sleeve leaving an insertion gap of 1.5cm a centimeter away from the sleeve seam.

j). The working of gathers at the crown of the sleeve.

k). The attaching of the sleeve.

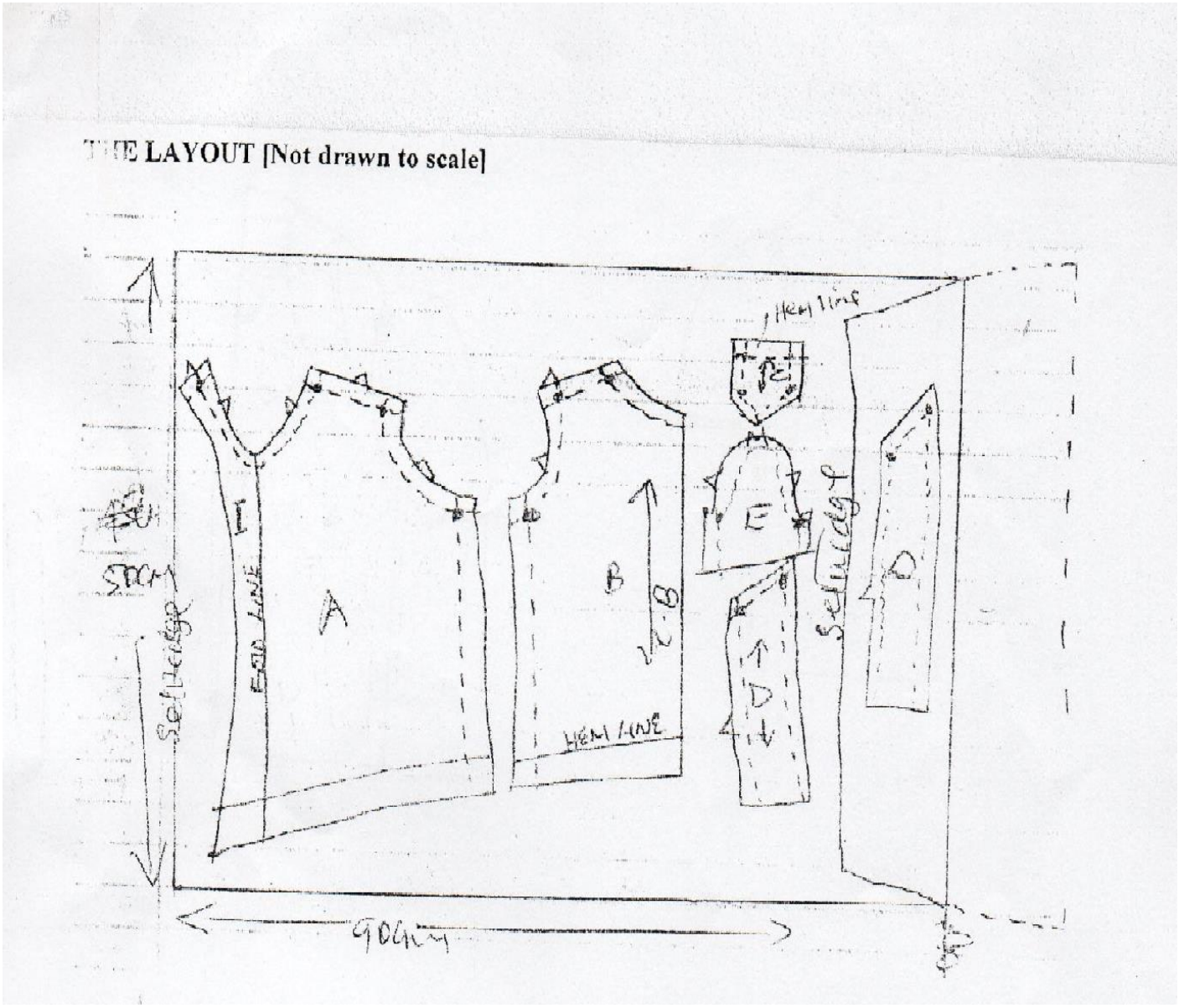
l). The insertion of elastic without closing the insertion gap.

m). Cutting of a straight tear and repairing using fishbone stitch.

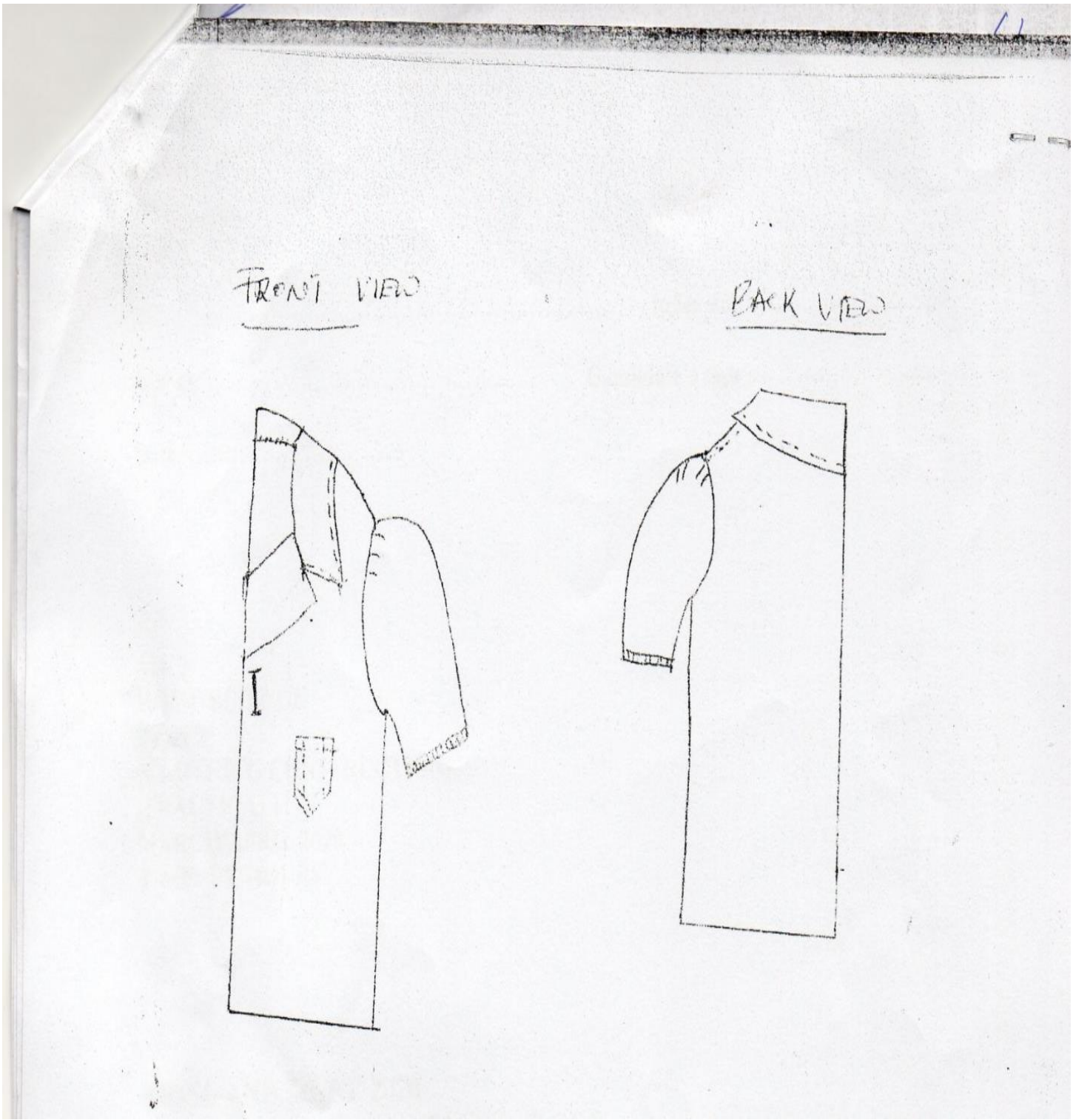
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NOTE:

- At the end of the examination, firmly sew on your work a single fabric, a label bearing your name and index number.
- Remove the needles and pins from your work then fold your work neatly and place it in the envelop provided
- Do not put scraps of fabric with your work.



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NAME…… **INDEX NO…….**

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441/3

HOMES CIENCE

Paper 3

[FOOD AND NUTRITION]

Practical

Time: 3 ¼ Hours

Planning session: 30 minutes

Practical session 1 ¼ hours

INSTRUCTIONS TO CANDIDATES

- *Read the test carefully.*
- *Textbooks and recipes may be used during planning session as reference materials*
- *You will be expected to keep to your order of work during the practical session.*
- *You are not allowed to bring additional notes to the practical session.*

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THE TEST

Your cousin is coming to visit you at your home. Using the ingredients listed below, prepare, cook and serve a one-course meal and a dessert for three two of you.

Ingredients

a) Rice/maize flour/wheat flour/potatoes/bananas

b) Beef/meat

c) Tomatoes

d) Onions

e) Dhania

f) Kales/cabbages

g) Fruits

h) Sugar

i) Fat

j) Royco

k) Salt

l) Capsicum

Planning Session.

Use separate sheets of paper for each task listed below and a carbon paper to make duplicate copies and proceed as follows:-

(i). Identify the dishes and write down their recipes

(ii). Write down your order of work.

(iii). Make a list of the food stuff, equipment and materials you would require.

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Instructions to the candidates

1. Read the test carefully.

2. Write your name and index number on every sheet of paper used.

3. Text books and recipes may be used during planning session as reference materials.

4. You will be expected to keep to your order of work during practical session.

5. You are not allowed to bring any additional notes to the practical session.

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KCSE 2021 PREDICTION

NAME…… **INDEX NO…….**

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501/1

FRENCH

PAPER 1

LISTENING COMPREHENSION, DICTATION AND COMPOSITION

2 ¾ hours

Instructions to candidates

- ***(a)*** *Write your name and index number in the spaces provided*
- ***(b)*** *This paper has* ***THREE*** *sections*
- ***(c)*** *In section I ,you will have five minutes to read through the questions before the test starts before answering the questions you will listen to several recorded passages on a tape for each passage you will answer questions as indicated to you on the tape.*
- ***(d)*** *In section II, you will listen to a recorded passage. Follow the instructions as given in the recording.*
- ***(e)*** *In section III ,choose one composition from question 1 and one from question 2*
- ***(f)*** *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

Section	Maximum Score	Candidate's Score
I	**15**	
II	**05**	
III	**15**	
Total Score	**45**	

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PASSAGE 1.

a) Ou se trouve les messieurs et les Mesdames dans cette annonce? **(1 point)**

……

b) Remplissez ce tableau **(3 points)**

	Equipe	**Nature de problème**
i	……	Sécurité sociale
ii	Rose	……
iii	Bleue	L'assurance ……..
iv	……	Bourses ……
v	……	Autres renseignements

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PASSAGE 2.

a) Quel est le produit dont on parle **?** **(1 point)**

……

b) ……vont l'aimer mais les **……** ne vont pas l'aimer. **(1 point)**

c) Le produit vient de quel pays ? **(1 point)**

……..

d) Ce produit comprend quel vocabulaire ? **(1 pt)**

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e) Où peut-on trouver ce produit ? **(1 pt)**

……..

PASSAGE 3.

a) Il s'agit de quoi cet atelier ? **(1 pt)**

…….

b) Il commence le mardi le 1e a **…….....** **(½ pt)**

c) Quel est le jour d'arrivée ? **(½ pt)**

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d) Qu'est-ce que les participants doivent apporter ? **(1 pt)**

……

e) Les exercices personnels se terminent à quelle heure ? **(½ pt)**

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PASSAGE 4.

a) Il s'agit de quoi ce concours ? **(1 pt)**

……

b) Le concours dure combien de semaines ? **(½ pt)**

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c) Qui posait des questions aux finalistes ? **(1 pt)**

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SECTION II.

DICTEE.

Write the dictation in the spaces provided.

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SECTION III

Write your two compositions in the spaces provided.

In 120-150 words, write in French on,

Either,

a) Vous avez rencontré un(e) ancien(ne) ami(e) de l'école primaire au supermarché en ville. Ecrivez le dialogue entre vous (A) et votre ami(e) (B)

Or,

b) Vous êtes malade et vous êtes allé(e) chez le docteur. Ecrivez le dialogue entre vous (A) et le docteur(B).

In 150-180 words, write in French on,

Either,

a) Vous avez visité le parc national avec vos camarades de classe mais malheureusement le bus est parti sans vous. Racontez la suite.

Or,

b) Vous êtes allé pour le cours de français et le professeur n'était pas content. Racontez la suite.

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KCSE 2021 PREDICTION

NAME…… **INDEX NO…….**

SCHOOL…… **SIGN…….**

DATE……

501/2

FRENCH

PAPER 2

READING COMPREHENSION AND GRAMMAR

TIME:11/2 HOURS

INSTRUCTIONS TO CANDIDATES

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

b) *This paper contains TWO sections.*

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

FOR EXAMINERS USE

SECTION	MAXIMUM SCORE	CANDIDATES SCORE
I	15	
II	15	
TOTAL	**30**	

READING COMPREHENSION

PASSAGE 1

Puisque tu as maintenant un petit chien, il faudra en prendre grand soir. D'abord, tu feras mieux de le faire vacciner contre le rage, parce que c'est une maladie terrible et il pourrait bien en mourir. Le matin après lui avoir donne de la viande avec des os et des légumes à manger, joue avec lui. Les petits chiens aiment surtout jouer avec des os, qui rendent leurs dents fortes. Deux fois, tu devras lui donner un bain pour que les insectes ne restent pas sur lui. Des aujourd'hui, tu peux lui apprendre à t'obéir .Ce sera difficile au début, mais ce n'est pas une raison pour te décourager. Tu sais un chien obéissant sera très utile .Si tu prends grand soin de ton chien, il sera un excellent ami.

Questions

a) Donnez un titre a ce texte. **(1 point)**

……

b) Comment peut-on prendre soin de son chien ? **(4 points)**

i)……...

ii)……

iii)……

iv)……

c) Quelle est l'importance d'os d'après ce texte. **(0.5 points)**

……

……

d) Qu'est-ce qu'on doit apprendre le chien ? Pourquoi ? **(1 point)**

……

……

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PASSAGE 2

Nakuru, le 20 octobre 2020.

Jean Luc Zeder,
Representant Rhone-Alpes,
Boite postale 50,
00200-G.P.O.
NAKURU-KENYA.

M.ABDULAHI RASHID,
Horticulteur,
Boite postale 14756,
OBOCK-DJIBOUTI.

Cher collègue,

En réponse à votre lettre du 10 octobre 2020, je vous adresse par ce courrier le catalogue des produits de notre fabrication. J'espère que vous y trouverez un produit qui vous convient.

Je reste à votre disposition pour vous annoncer l'exposition publicitaire qui sera organisée dans votre région au début de l'année prochaine .J'espère avoir le plaisir de vous rencontrer pendant cette vente publicitaire et de visiter vos nouvelles installations.

Dans cette attente, je vous prie de croire, cher collègue, a l'expression de mes sentiments cordiaux.

Jean Luc Zeder

Questions

a) Qui est l'expéditeur de cette lettre ? **(1 point)**

……..

b) Qui est le destinataire de cette lettre ? **(1 point)**

……..

c) L'auteur dit « dans cette attente… »Dans l'attente de quoi ? **(1 point)**

…….

PASSAGE 3

Le Kenya a deux langues officielles : le Kiswahili et l'anglais. Il y existe aussi plus une quarantaine de langues vernaculaires. Dans les villages, il existe des personnes qui ne parlent que les langues vernaculaires. Ce sont ceux qui n'ont pas eu la chance d'assister les cours à l'école. Il y a les endroits ou l'on n'a pas d'autres langues sauf le Kiswahili. Tout le monde au Kenya peut communiquer de l'un de l'autre n'importe comment. Le français et l'allemand les deux langues enseignées dans le pays mais dans quelques écoles nationales.

Questions

a) Combien de langues sont obligatoires au Kenya ? Lesquelles ? **(1 point)**

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b) Pourquoi y a-t-il des personnes parlant seulement leur langue vernaculaire **?** **(1 point)**

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……..

c) Donnez un mot pour dire « deux langues » **(0.5 point)**

……..

d) Quelles autres langues peut-on parler au Kenya ? **(1.5 points)**

i)……..

ii)……..

iii)…….

PASSAGE 4

Au nord du Kenya, dans la région du Wajir, des collectionneurs engagent des habitants pour ouvrir des tombes scellées contenant des antiquités que même les musées Kenyans n'ont jamais rencontrés. «On ne trouve plus de Vigangus, » ces cimetières de la tribu Mijikenda sur la cote Kenyane dans leur zone d'origine. En revanche, il y en a pleines les musées d'Europe et d'Amérique ? dit George Abungu, le directeur des musées nationaux du Kenya. Mais tandis que les sites archéologiques non protégés sont des cibles faciles, les musées africains subissent eux aussi de lourdes pertes lors de raids perpètre par des voleurs souvent puissamment armes et prêt a attaquer et a tuer a tout gardien osant s'opposer a eux.

George Abungu accuse des collectionneurs fortunes, des diplomates ainsi que certains musées d'Europe et d'Amérique de promouvoir le trafic en pro mettant des sommes qui semblent fabuleuses a des communautés africaines pauvres et a des revendeurs locaux sans scrupules. Toutefois, ajoute-t-il, les gouvernements africains sont eux aussi a blâmer : jamais la protection, la conservation ou la préservation du patrimoine culturel n'ont été considérées comme des priorités.

Questions

a) Comment ce collectionneurs obtiennent-ils les antiquités au nord du pays et pourquoi est-il facile d'accéder des sites archéologiques ? **(1 point)**

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b) Comment les musées sont-ils aussi affectes ? **(1 point)**

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c) Comment ces collectionneurs-voleurs arrivent-ils a convaincre les communautés locales à collaborer avec eux ? **(1 point)**

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d) Complétez : Pour arrêter ce trafic, les gouvernements africains devraient… **(1.5 points)**

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GRAMMAR

Beginning as indicated rewrite the sentences below making all the necessary changes. **(7 points)**

Exemple: Le mois prochain nous allons voir un film.

Il y a quelque jours……

Il y a quelque jours nous sommes allés voir un film.

i) Ne boivent –elles pas de bière ?

Si,…….

ii) Il pleut dehors mais il faut partir toute de suite pour planter des abres.

Malgré……

iii) Elle me dit : « Ne prends pas de bus ! »

Qu'est-ce qu'elle me dit ?

Elle me dit……..

iv) Vous avez beaucoup de problèmes mais vous restez confiants.

Bien que……

v) Avez-vous quelquechose de bon à nous dire ?

Non,……

vi) Marie a écrit cette lettre.

Cette lettre……..

vii) Nous habitons ici depuis deux ans.

Cela fait…….

2) Fill in the blanks with only one word.

C'…….aujourd'hui seulement que …….répond …….ta lettre arrivée depuis deux mois……..te plains sans cesse ……mon retard ……..te répondre. Tu sais tres bien ……..je ne sais…….lire, ni écrire .Depuis qu'on parle…….nous instruire…….nos langues rien n'a été encore fait donc nous attendons toujours.

3) What would you say for each of the situations below?

a) Que dites-vous a quelqu'un qui va essayer un exploit difficile ?

…….

b) Vous commandez quelquechose a l'hotel.

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c) A quelqu'un qui est malade, que dites-vous ?

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d) Vous assistez à une occasion de naissance .Vous dites ?

……

e)Monsieur le Président arrive dans votre école pour la première fois. Vous dites ?

…….

f) A un ami qui a rate le train ?

……

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KCSE 2021 PREDICTION

NAME…… **INDEX NO…….**

SCHOOL…… **SIGN…….**

DATE……

314/1

ISLAMIC RELIGIOUS EDUCATION

Paper 1

2 ½ hours

Instructions to candidates

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

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

d) Answer any FIVE questions in the spaces provided at the end of question six

e) Candidates should check the question paper to ascertain that all the questions are available

f) Candidates should answer the questions in English

For Examiner's Use Only

Question	**1**	**2**	**3**	**4**	**5**	**6**	**Total score**
Candidate's score							

Q1.

a. Sura al Hujurat lays rules on how Muslims should solve their disputes and relate with each other. Explain the causes of conflicts in the society according to the surah **(6mks)**

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b. Discuss four differences in the compilation of Quran between caliph Abubakar and Uthman

(8mks)

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c. Explain the problems encountered in the standardization of the Quran during the reign of caliph Uthman **(6mks)**

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Q 2

a. Describe the circumstances under which suratul Nur was revealed **(7mks)**

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(b) Outline facts which prove that Quran is from Allah **(7mks)**

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c. Explain ways in which angel Jibril facililtated the revelation of the Quran **(6mks)**

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Q3

a. Outline the reasons that necessitated the collection and compilation of Hadith **(7mks)**

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b. Discuss the contributions made by Imam Bukhari in the development of Hadith **(7mks)**

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c Abu Hureira reported that the prophet said " Keep away from envy for as fire burns fire woods so envy consumes good actions" in light of the above hadith highlight the views of prophet Muhammad (s.a.w) on envy and jealousy **(6mks)**

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Q4

a. What is the significance of visiting Madina after Hajj or Umrah **(6mks)**

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b. State the Islamic principles pertaining to halal and Haram (7mks)

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c. Explain the contributions made by Imam Abu Hanifa in the development of Fiqh (7mks)

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Q5

(a) How does the performance of swalat demonstrate unity among the Muslims **(5mks)**

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(b) Describe the categories of legal acts in islam **(10mks)**

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(c) Outline five situations where ijmaa was applied during the caliphs **(5mks)**

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Q6.

a. How does the belief in Qadar affect the life of a Muslim **(6mks)**

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b. State the qualities of an Imam according to the shia **(6mks)**

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c. Outline the roles of the prophets in the facilitation of the message **(8mks)**

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KCSE 2021 PREDICTION

NAME…… **INDEX NO…….**

SCHOOL…… **SIGN…….**

DATE……

314/2

ISLAMIC RELIGIOUS EDUCATION

Paper 2

2 ½ hours

Instructions to candidates

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

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

c) This paper consists of SIX questions

d) Answer any FIVE questions in the spaces provided at the end of question six

e) Candidates should check the question paper to ascertain that all the questions are available

f) Candidates should answer the questions in English

For Examiner's Use Only

Question	**1**	**2**	**3**	**4**	**5**	**6**	**Total score**
Candidate's score							

1. a) Explain the rationale behind the prohibition of slander in Islam. **(8mks)**

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b) state the wisdom behind the prohibition of zina in Islam**.** **(7mks)**

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c)Highlight **FIVE** advantages of practicing the virtue of Qana'a(contentment) **(5mks)**

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2. a) state the benefits of writing a will before a Muslim die. **(7mks)**

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b) state the Islamic teachings that married couples can adopt to avoid Talaq(divorce). **(7mks)**

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c) state **SIX** causes of corruption in Kenya. **(6mks)**

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3. a) Explain ways through which Muslims can co-exist peacefully with non-Muslims. **(8mks)**

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b) state the effects of riba on Muslim. **(7mks)**

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c) highlight **FIVE** Islamic teachings on acquisition of wealth. **(5mks)**

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4. a) Explain ways in which Muslim city sates facilitated spread of Islam in the East coast of Africa between 1700-1900. **(8mks)**

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b) Explain factors that led to the decline of the Banu Abbas. **(7mks)**

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c) State **FIVE** achievements of the fatimids. **(5mks)**

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5. a) Gives reasons why sayyidna Abubakar was elected Khalifa. **(7mks)**

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b) Explain **FOUR** factors that led to the battle of badr. **(8mks)**

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c)State **FIVE** lessons we learn from Sheikh Swalel Abdallah Farsy. **(5mks)**

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6. a) Discuss **FIVE** achievements of sheikh sayyid Qutub **(5mks)**

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b) State **FIVE** lessons we can learn from imam Ghazali's rules of Conduct. **(5mks)**

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c) Briefly describe sheikh Al Amin Al Mazrui. **(10mks)**

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FOR SET 3 QUESTIONS & MARKING SCHEMES

(kcsepredictions@gmail.com)

KCSE Predictions Marking Schemes

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