

KCSE PREMOCKS

ALL SUBJECTS

SET 3

Dear Candidates, Attempt these Joint Trials!

For Marking Schemes Call 0705525657

NAME..... INDEX NO.....

SCHOOL..... SIGNATURE..... DATE.....

121/1 MATHEMATICS

Section I (50mks) Answer all questions in this section

1. Evaluate the following (3mks)

$$\frac{\frac{2}{3} - 1\frac{1}{4} + \frac{5}{6}}{\frac{2}{7} + 3\frac{1}{5} \text{ of } \frac{7}{8} \div \frac{6}{11} - \left[5\frac{1}{3} + \frac{9}{10} \right]}$$

2. Use square roots, reciprocal and square table to evaluate to 4 significant figures the expression (4mks)

$$(0.06458)^{\frac{1}{2}} + \left(\frac{2}{0.4327} \right)^2$$

3. Solve the following inequalities and represent the solution on a single number line (3mks)

$$3 - 2x < 5$$

$4-3x \geq -8$

4. The point A, B and C lie on a straight line. The position vectors of A and C are $2i+3j+9k$ and $5i-3j+4k$ respectively; B divides AC internally in the ratio 2:1.find

a) Position vector of B (2 marks)

b) Distance of B from the origin .(1mark)

5. Without using tables, evaluate $\frac{0.51 \times 5700}{6.8 \times 0.0095}$ giving your answer in standad form (3marks)

6. If the interior angle of a regular polygon is m° and each exterior angle is $\left(\frac{m-36}{3}\right)^\circ$.calculate the sum of the interior angles. (3mks)

7. Simplify $\frac{p^2 - 2pq + q^2}{p^3 - pq^2 + p^2q - q^3}$ (3marks)

8. A straight line passes through the points (-3,-4) and is perpendicular to the line whose equation is $3x+2y=11$ and intersect the x axis and y axis at point A and B respectively. Find the length of AB. (4 marks)

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9. A Kenyan bank buys and sells foreign currencies at the exchange rates shown below.

	BUYING (KSHS)	SELLING (KSHS)
1Euro	147.56	148.00
1U.S Dollar	74.22	74.50

An American arrived in Kenya with 20,000 Euros. He converted all the Euros into Kenyan Shillings at the bank. He spent Kshs.2,510,200 while in Kenya and converted the remaining Kenya shillings into U.S Dollars at the bank. Find the amount in dollars that he received. (3mks)

10. A farmer has a piece of land measuring 840m by 396m. He divides it into square plots of equal size. Find the maximum area of one plot (3marks)

11. Given that $\cos A = \frac{16}{25}$, without using mathematical table or calculator find:

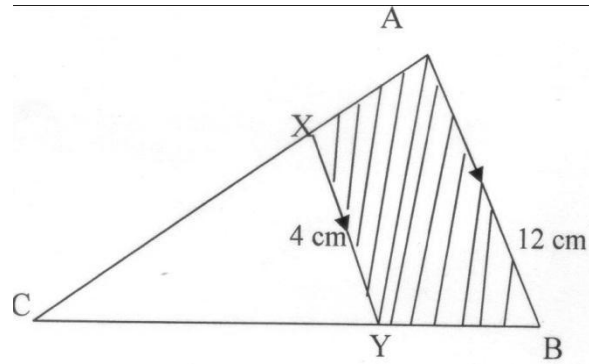
1) Sin A (2marks)

2) Tan(90-A) (1marks)

12. In the figure below, line AB and XY are parallel.

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If the area of the shaded region is 36cm^2 , find the area of triangle CXY (3marks)

13. A liquid spray of mass 384g is packed in a cylindrical container of internal radius 3.2 cm. Given that the density of the liquid is 0.6g/cm^3 , calculate to 2 dp the height of the liquid in the container (3marks)

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

b) Hence solve the simultaneous equation using the matrix method (2mks)

$$4x + 3y = 6$$

$$3x + 5y = 5$$

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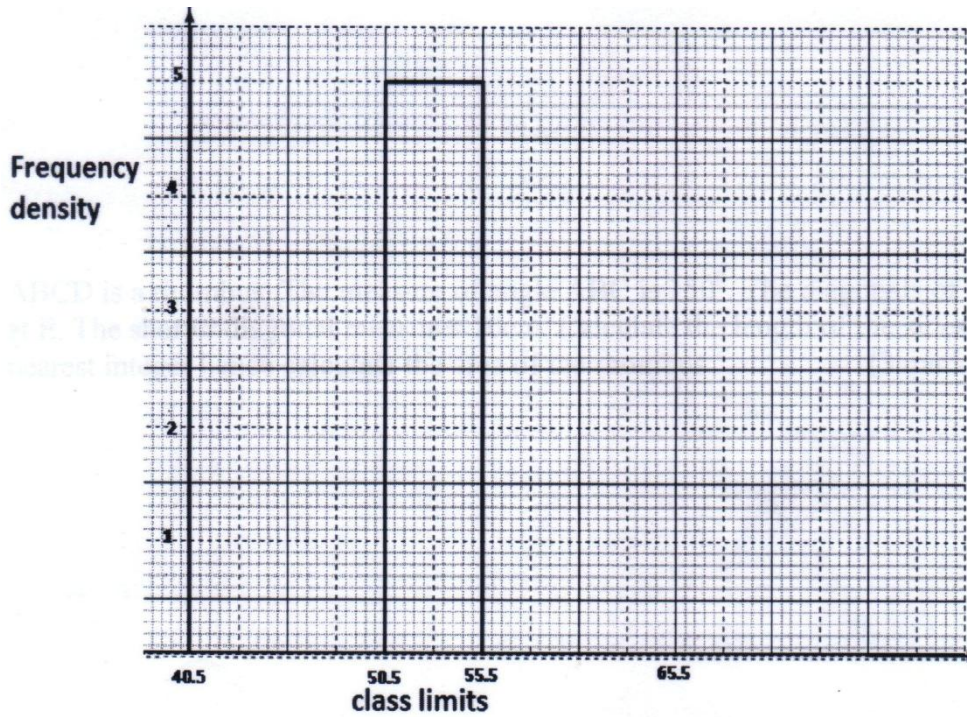
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15. Evaluate:

(3marks)

$$\frac{\left(\frac{1}{27}\right)^{\frac{1}{3}} \times (256)^{\frac{1}{2}} \times 3^6}{(729)^{-1} \times 72^2}$$

16. The following data was obtained from the mass of a certain animals. Complete the table and the histogram below. (3marks)



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SECTION II 50mks. Answer any five question in the section

17. A circular lawn is surrounded by a path of uniform width of 7m. the area of the path is 21% that of the lawn.

a) Calculate the radius of the lawn (4 marks)

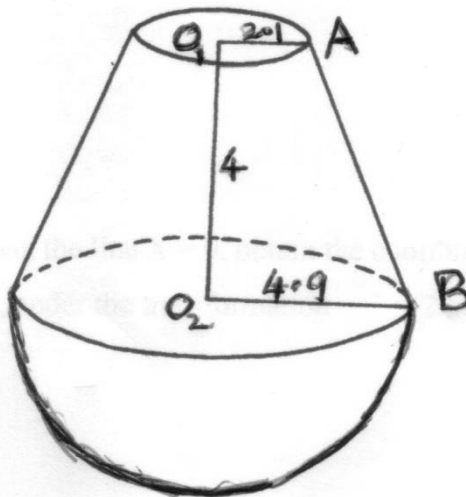
b) Given further that the path surrounding the lawn is fenced on both sides by barbed wire on posts at intervals of 10 metres and 11 metres on the inner and outer sides respectively. calculate the total number of posts required for the fence (4 marks)

c)

d) Calculate the total cost of the posts if one post cost sh 105 (2mks)

18 The diagram below represents a solid consisting of a hemispherical bottom and a conical frustum at the top. $O_1O_2=4\text{cm}$, $O_2B=R=4.9\text{cm}$

$O_1A=r=2.1\text{cm}$



a) Determine the height of the bigger cone.

(3mks)

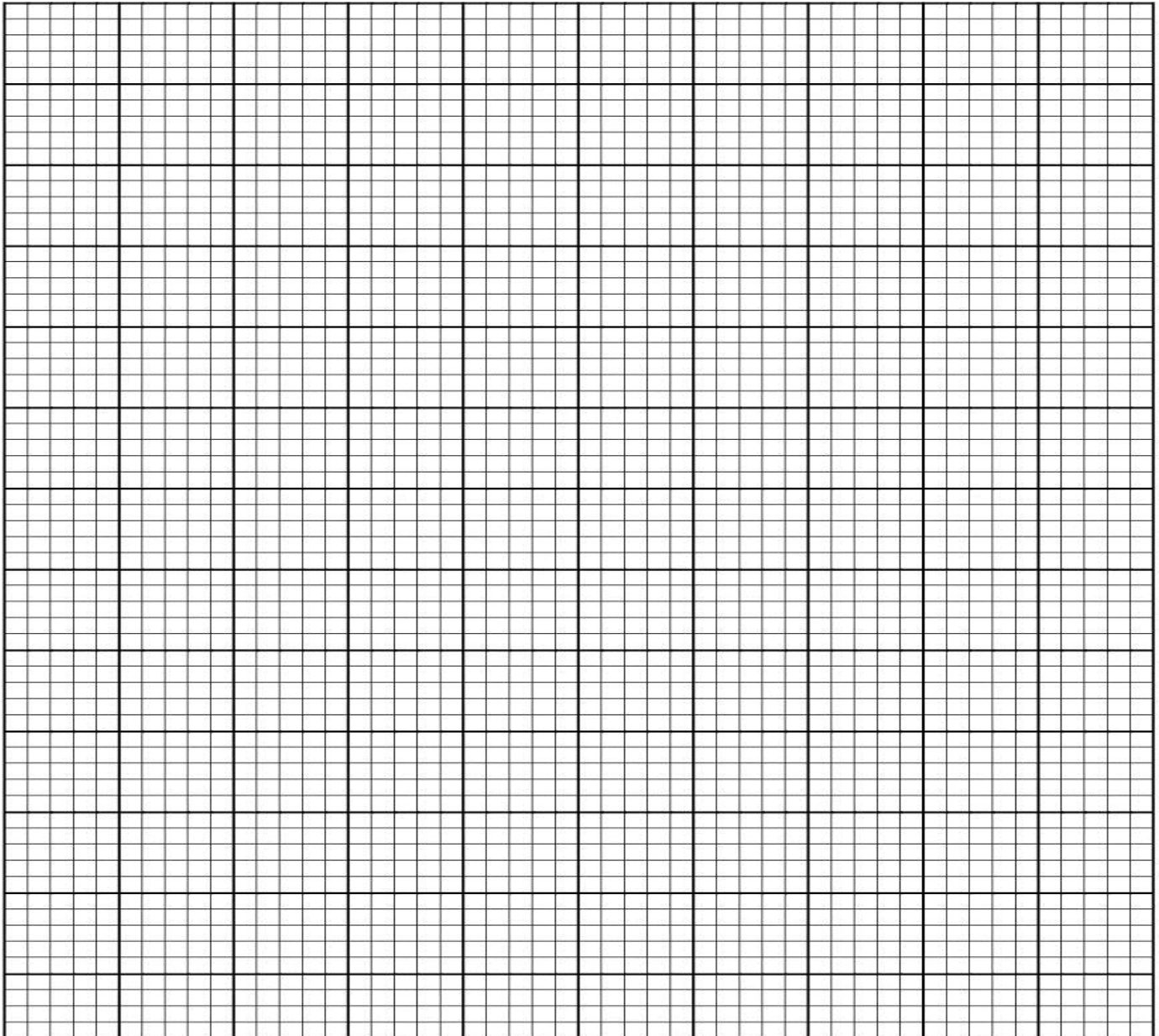
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b) Calculate the surface area of the solid.

(7mks)

19 The coordinates of a triangle ABC are A(1, 1) B(3, 1) and C (1, 3).



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(b) Triangle ABC undergoes a translation vector $\begin{pmatrix} 2 \\ 2 \end{pmatrix}$. Obtain the image of A' B' C' under the transformation, write the coordinates of A' B' C'. **(2 marks)**

(c) A' B' C' undergoes a reflection along the line $X = 0$, obtain the coordinates and plot on the graph points A'' B'' C'', under the transformation **(2 marks)**

(d) The triangle A'' B'' C'', undergoes an enlargement scale factor -1, center origin. Obtain the coordinates of the image A''' B''' C'''. **(2 marks)**

(e) The triangle A''' B''' C''' undergoes a rotation center (1, -2) angle 120° . Obtain the coordinates of the image A^{iv} B^{iv} C^{iv}. **(2 marks)**

(f) Which triangles are directly congruent? **(1 mark)**

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20. Using a ruler and compasses only, construct a triangle ABC such that $BC=8$ cm, angle $ABC=60^\circ$

And angle $BAC=45^\circ$

- a) on the Same diagram ,measure the length of: (5 marks)
- i)AC
 - ii)BC
- b) Draw the circumcircle of the triangle ABC.(2mks)
- c) Construct the locus of a point P within the triangle by shading the unwanted region inside the circumcircle such that the following condition are satisfied: (3 marks)
- i)P is closer to A than B
 - ii) Angle $PAB=$ angle PAC

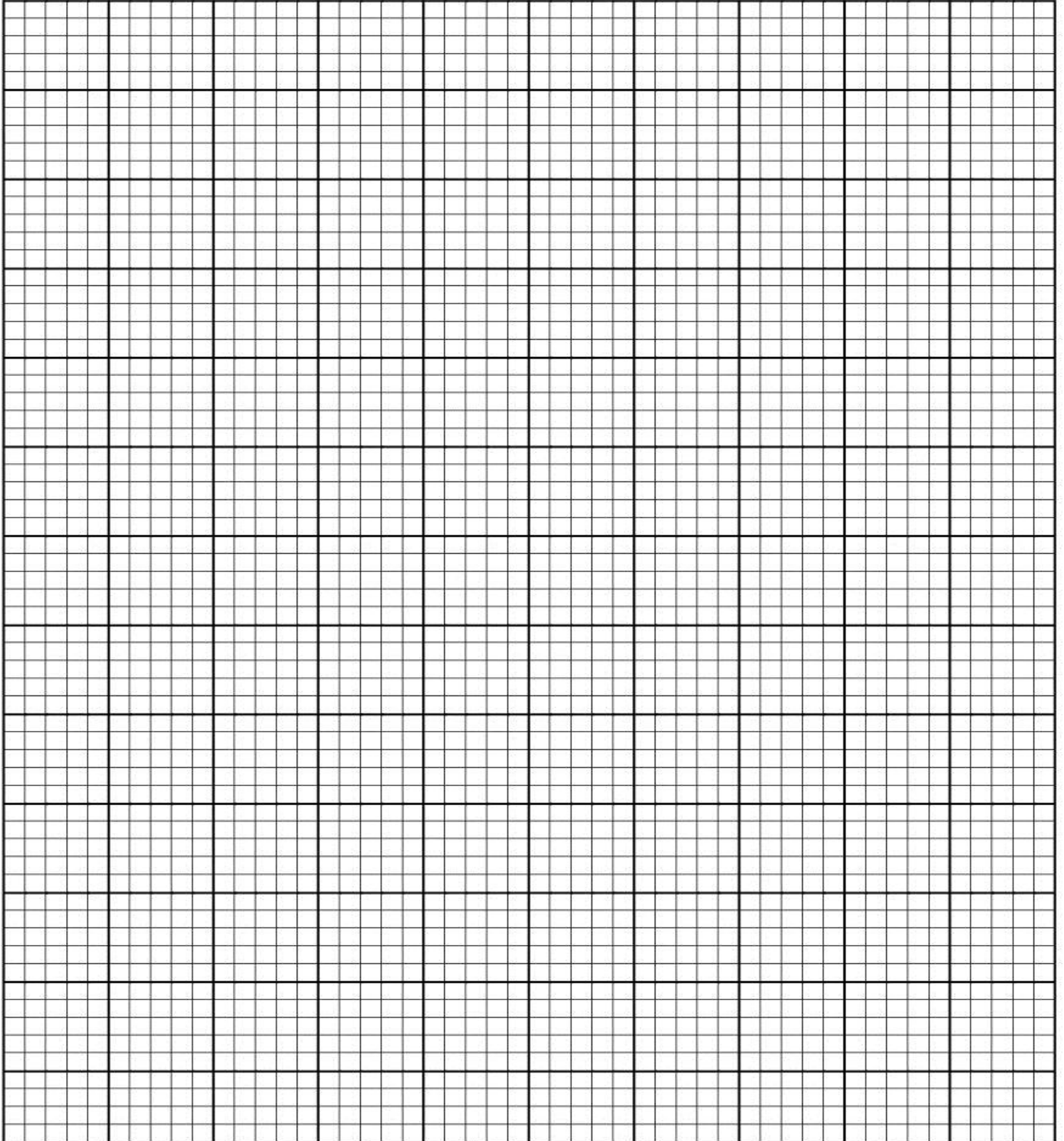
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21. 21 a) Draw the graph of the function below on the grid provided

$$y = 2x^2 - 7x - 2 \text{ for the values of } -1 \leq X \leq 6$$

(5mks)



- b) From your graph determine the roots of the function. $2x^2 - 7x - 2 = 0$. (1mk)
- c) By drawing a suitable graph of function $y = 2x - 7$ on the same axis, solve the simultaneous equations $y = 2x^2 - 7x - 2$ and $y = 2x - 7$. (4mks)

22. Eunice bought oranges worth ksh 45, while Sharon spent the same amount of money but bought at a discount of 75 cent per orange.

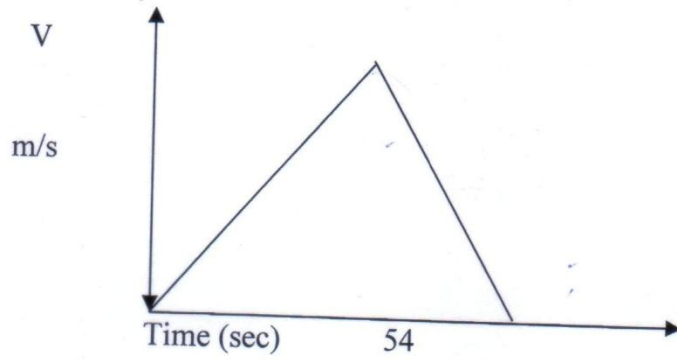
- a) If Eunice bought an orange at sh x , write down a simplified expression for the total number of oranges bought by Eunice and Sharon. (3mks)
- b) If Sharon bought 2 more oranges than Eunice, find how much each spent on an orange (5mks)

- c) Find the total number of oranges bought by Eunice and Sharon (2mks)

23.a) The figure below shows a velocity time graph of an object which accelerates from rest to a velocity V m/s then decelerates to rest in a total of 54 seconds. If the whole journey is 810m

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a) Find the value of V (2mks)

b) Hence find:

i) The value of t when the particle is instantaneously at rest (2mks)

ii) The total distance travelled by the particle during the first 4 seconds. (2mks)

iii) The maximum velocity attained by the particle (2mks)

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24. Auma, Hasssan and Kamau competed in a game of darts. Their probabilities of hitting the targets are

$\frac{2}{5}$, $\frac{1}{5}$ and $\frac{3}{10}$ respectively.

Draw a probability tree diagram to show all the possible outcome

a) Calculate the probability that:

i) No one hit the target (2mks)

ii) Only one of them hit the target (2mks)

iii) At least one of them hit target (2mks)

iv) At least one of them missed the target (2mks)

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KCSE PREMOCK SET 3

121/2

MATHEMATICS

SECTION I

Answer all questions in this section in the space provided

1. Use logarithms correct to 4 decimals place to evaluate (3mks)

$$\sqrt{\frac{0.3698 \sin 56}{2.548}}$$

2. Solve the equation

$$\log_8(x+5) - \log_8(x-3) = \frac{2}{3} \quad (3mks)$$

3. If $\frac{\sqrt{14}}{\sqrt{7}-\sqrt{2}} + \frac{\sqrt{14}}{\sqrt{7}+\sqrt{2}} = a\sqrt{7} + b\sqrt{2}$ find the value of a and b where a and b are rational numbers.

(3mks)

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4. Given the arithmetic sequence 4, 11, 18... Find

a) The common difference (1mks)

b) The sum of the first ten terms (2mks)

5. a) Expand $\left(1 - \frac{x}{5}\right)^8$ up to the term in x^4 (2mks)

b) Hence evaluate $(0.95)^8$ (2mks)

6. A quantity **P** is partly constant and partly varies as the cube of **Q**. If **P**=25 when **Q**=1, **P**=44 when **Q**=2. Find the value of **P** when **Q**=5 (3mks)

7. Make **P** the subject of the formula

$$R = \sqrt{\frac{3T(P-T)}{P}} \quad (3MKS)$$

8. Solve for θ in the range $0^\circ \leq \theta \leq 360^\circ$ given that $\sin 2\theta = -\sqrt{3} \cos 2\theta$ (3mks)

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9. T is a transformation represent by the matrix $\begin{bmatrix} 5x & 2 \\ -3 & x \end{bmatrix}$. Under T, a square of area 10cm^2 is mapped onto a square of area 110cm^2 find the value of x. (3mks)

10. The gradient function of curve that passes through the point $(-1,-1)$ is $2x+3$. find the equation of the curve. (3mks)

11. $2x^2+2y^2-6x+10y+9=0$ is the equation of a circle. Find the radius and the center of the circle. (4mks)

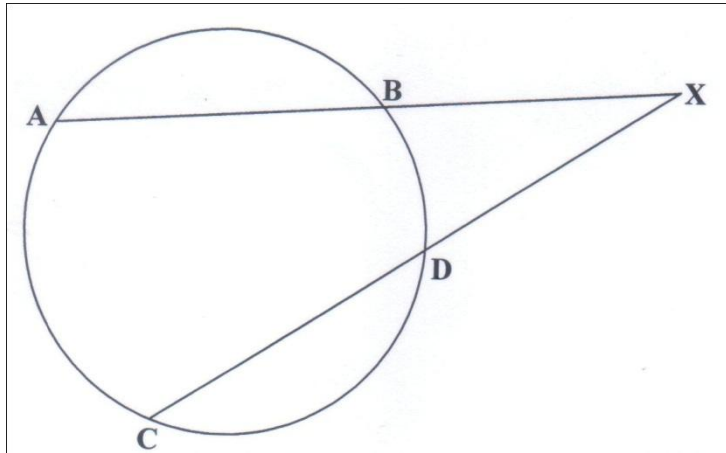
12. In what proportion must tea costing sh 76 and sh 84 per kg be mixed to produce tea costing sh 81 per kg (3mks)

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13. Chords AB and CD of a circle meet at X

(3mks)



If $AB=8\text{cm}$, $BX=5\text{cm}$ and $DX=6\text{cm}$. Calculate the length of chord CD to 2 dp

(3mks)

14. A dam containing 4158m^3 of water is to be drained. A pump is connected to a pipe of radius 3.5 cm and the machine operates for 8 hours per day. Water flows at the pipe at the rate of 1.5m per second. Find the number of days it takes to drain the dam

(3mks)

15. Solve the equation below

(3mks)

$$7^{2x} - 8 \times 7^x + 7 = 0$$

16. $\frac{2}{3}$ is truncated to 2 d.p calculate the percentage error in doing so

(3mks)

SECTION II(answer any five question)

Answers any five equation in this section

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17. A businessman obtained a loan of ksh 450,000 from a bank to buy a matatu valued at the same amount. The bank charges interest at 24% per annum compounded quarterly

- c) Calculate the total amount of money the businessman paid to clear the loan in one and half years (4mks)
- d) The average income realised from the matatu per day was ksh 1500. The matatu worked for 3 years at an average of 280 days per year. Calculate the total income from the matatu, for the three years. (2mks)
- e) During the three years, the value of the matatu depreciated at the rate of 16% per annum. If the businessman sold the matatu at its new value, calculate the total profit he realised by the end of three years. (4mks)

18.a) i) Taking the radius of the earth, $R=6370\text{km}$ and $\pi=22/7$, calculate the shortest distance between the two cities $P(60^\circ\text{N}, 29^\circ)$ and $Q(60^\circ\text{N}, 31^\circ\text{E})$ along the parallel of latitude. (3mks)

ii) If it is 1200hrs at P, what is the local time at Q. (3mks)

iii) An aeroplane flew due south from a point A ($60^\circ\text{N}, 45^\circ\text{E}$) to a point B. The distance covered by the aeroplane was 8000km determine the position of B. (4mks)

19. (a) Fill the table below for the curves given by $y = 3 \sin (2\chi + 30^\circ)$ and $y = \cos 2\chi$ for χ

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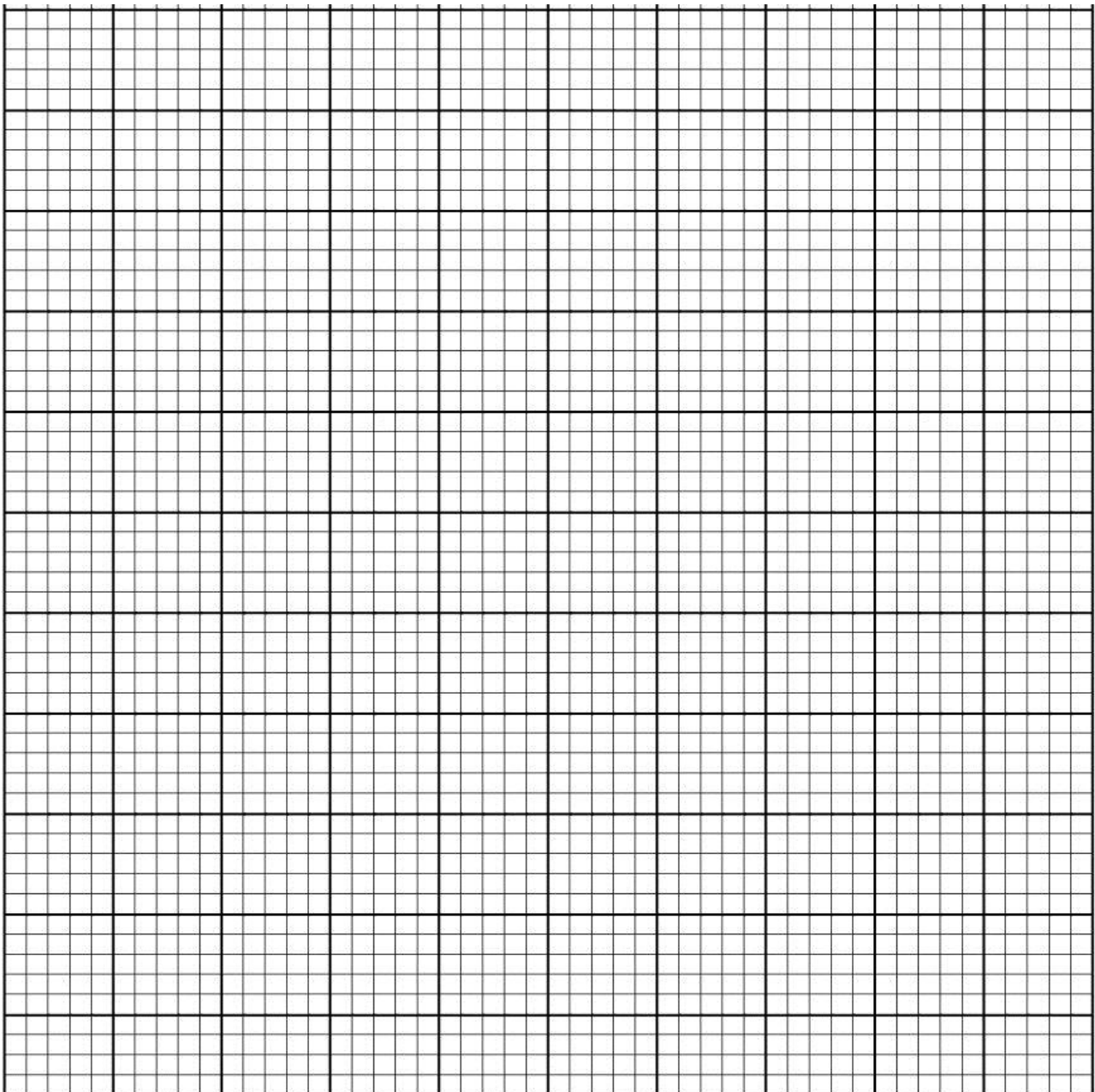
values in the range $0^{\circ} \leq \chi \leq 180^{\circ}$.

(2mks)

χ	0°	15°	30°	45°	60°	75°	90°	120°	150°	180°
$y = 3 \sin (2\chi + 30^{\circ})$	1.50	2.60		2.60	1.50	0.00	-1.50			-2.60
$y = \cos 2\chi$	1.00	0.87	0.50		-0.50	-0.87		-0.87	-0.50	

(b) Draw the graphs of $y = 3 \sin (2\chi + 30^{\circ}) = \cos 2\chi$ on same axes.

(2mks)



(c) Use your graph to solve the equation $3 \sin (2\chi + 30^\circ) - \cos 2\chi = 0$. (2mks)

(d) Determine the following from your graph:

(i) Amplitude of $y = 3 \sin (2\chi + 30^\circ)$. (1mk)

(ii) Period of $y = 3 \sin (2\chi + 30^\circ)$. (2mks)

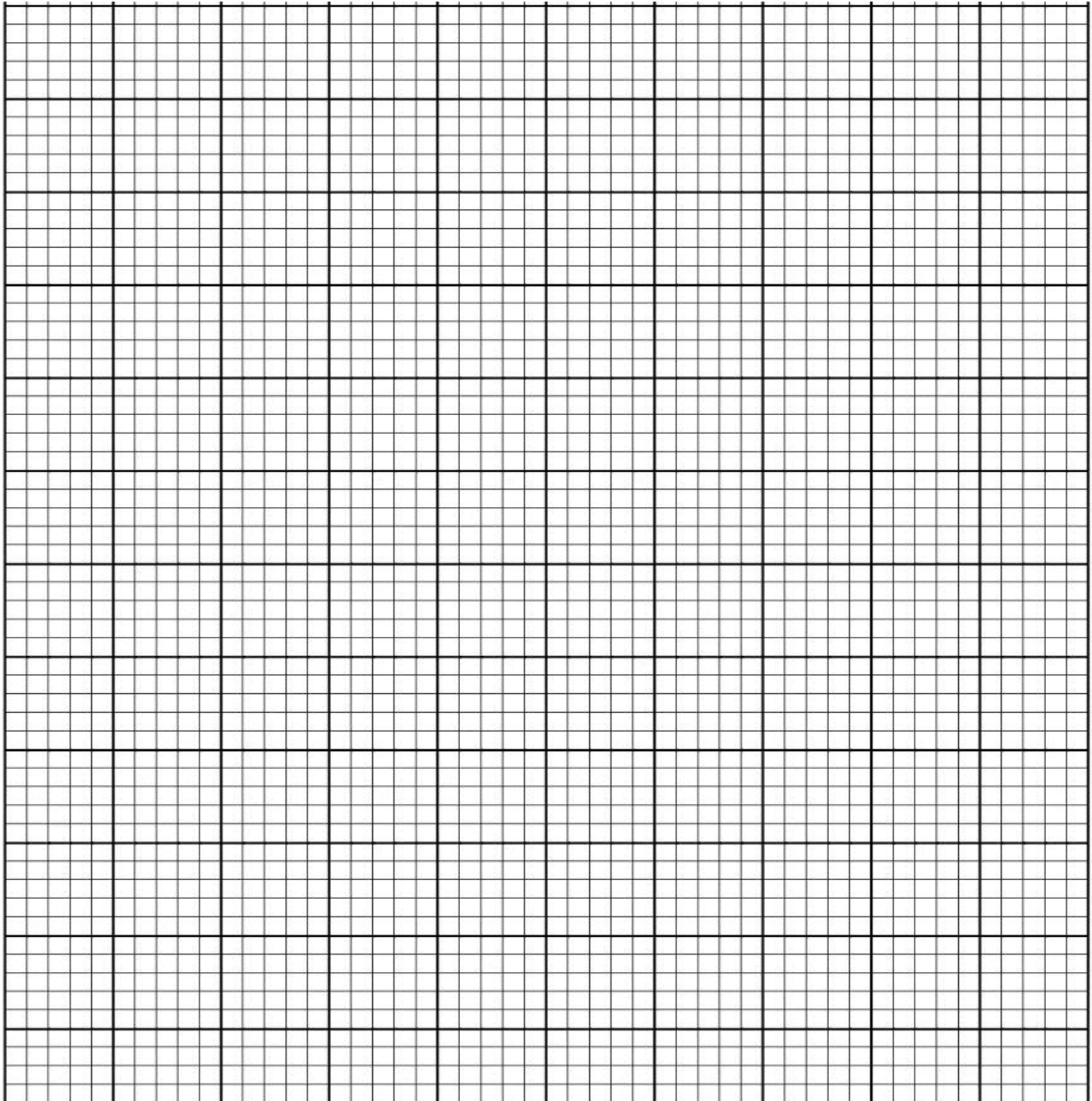
(iii) Phase difference for $y = 3 \sin (2\chi + 30^\circ)$. (1mk)

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20. Draw a cumulative frequency curve for the following data which shows the marks obtained by 80 form four students in a school. (5mks)

Marks	1-10	11-20	21-30	31-40	41-50	51-60	61-70	71-80	81-90	91-100
frequency	3	5	5	9	11	15	14	8	6	4



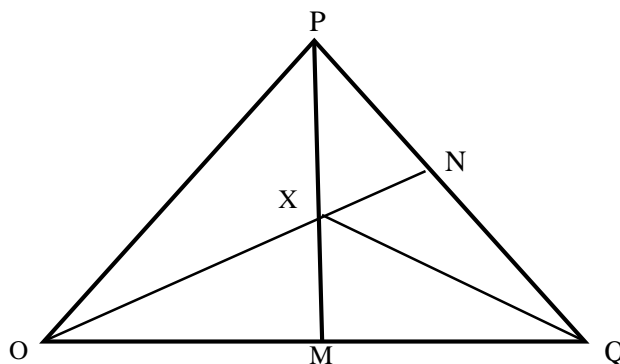
Use your graph to find:

1. The lower quartile(Q1), median(Q2) and upper quartile(Q3) (3mks)

2. The pass mark if 85% of these student are to pass (2mks)

21. The diagram below shows triangle OPQ in which M and N are points on OQ and PQ respectively such that

$OM = \frac{2}{3} OQ$ and $PN = \frac{1}{4} PQ$. Lines PM and ON meet at X .



Given that vector $OP = \mathbf{p}$ and vector $OQ = \mathbf{q}$ Express the following in terms of \mathbf{p} and \mathbf{q}

a) Vector PQ (1mk)

b) Vector PM (2mks)

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c) Vector **ON** (1mk)

By expressing vector **OX** in two different ways, determine the values of h and k such that vector **OX=kON** and **PX=hPM**

i) Express **OX** in term of p and q in two different ways. (2mks)

ii) Find the value of h and k (2mks)

iii) Find the ratio **PX: XM** (1mks)

22. a) The first term of an arithmetic progression (AP) is 2. The sum of the first 8 terms of AP is 256.

i) Find the common difference of AP (2mks)

c) Given that the sum of the first n terms of the AP 416. Find n (2mks)

b) The 3rd, 5th and 8th terms of another AP forms the first three terms of a geometric progression (GP). If the common difference of the AP is 3

Find

i) The first term of GP (4mks)

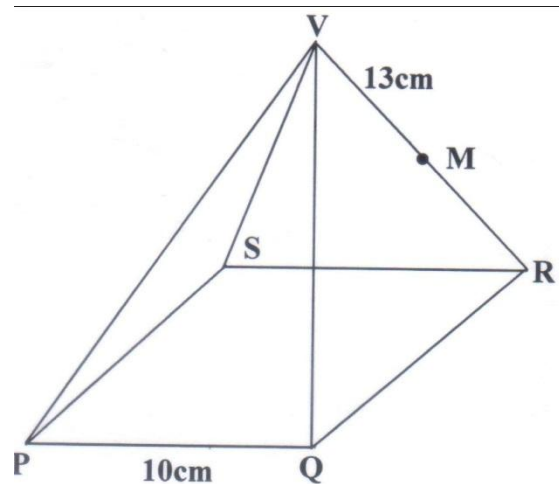
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ii) The sum of the first 9 terms of the GP to 4 s.f

(2mks)

23. In the figure below, VABCD is a right pyramid on a square base. Point V is vertically above the middle of the base. $PQ = 10\text{cm}$, $VR = 13\text{cm}$. M is the midpoint of VR.



Find

d) (i) The length PR.

(2mks)

b) The height of the pyramid

(2mks)

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(b) The angle between
(i) VR and the plane PQRS. (2mks)

(ii) The angle between MR and base PQRS. (2mks)

(iii) The planes QVR and PQRS. (2mks)

24. The vertices A (-2, -2), B (-4, -1), C (-4, -3) and D (-2, -3) is under a transformation by matrix E=

$$\begin{pmatrix} -2 & 0 \\ 0 & -2 \end{pmatrix}$$

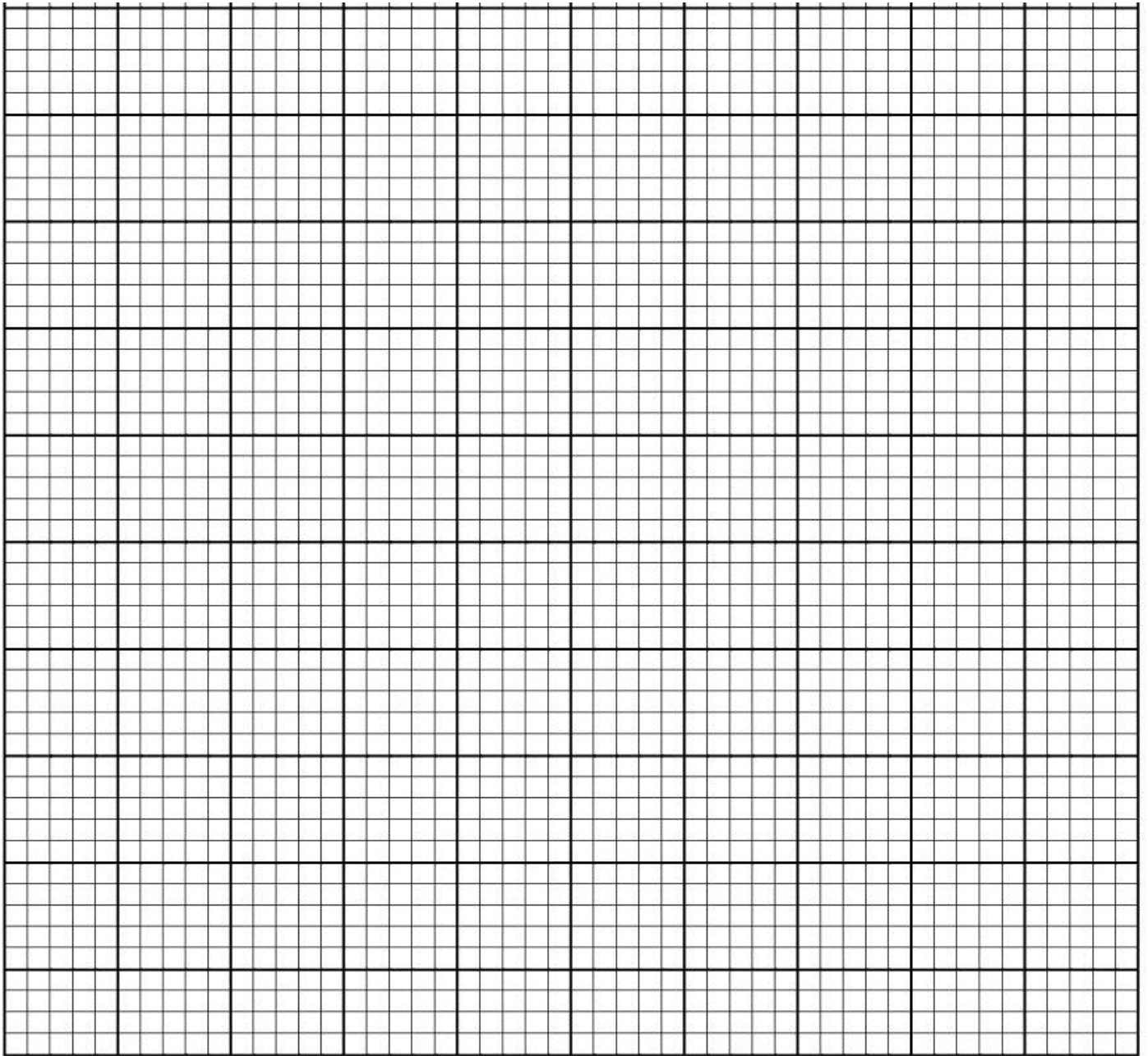
a)i)find the coordinate of A¹B¹C¹D¹ (2mks)

ii) Another matrix S= $\begin{pmatrix} 0 & -1 \\ -1 & 0 \end{pmatrix}$ transforms A¹B¹C¹D¹. Find the coordinate of A¹¹B¹¹C¹¹D¹¹ (2mks)

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b) Matrix $R = \begin{pmatrix} 0 & 1 \\ -1 & 0 \end{pmatrix}$ further gives $A^{11}B^{11}C^{11}D^{11}$ a transformation. find the coordinate of $A^{11}B^{11}C^{11}D^{11}$ and plot on the graph provided (2mks)

c) Find the matrix representing the transformation mapping the image found in (a) (ii) above back to the object ABCD. (2mks)

d) $A(2,2)$ $B(2,0)$ and $C(3,2)$ are coordinate of the vertices of triangle ABC. Triangle ABC undergoes a shear factor 3 parallel to x axis. Determine the coordinates of $A^1B^1C^1$. (2mks)

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KCSE PREMOCK SET 3

Paper 1

(Functional skills, cloze test and oral skills)

a) Functional Skills.

You are the class secretary in your class and you would like the students to attend a career day at Murang'a University which is an annual event held in term two. Write a letter of enquiry to the dean of studies enquiring to be informed of the date, venue and time. Sent it through an e- mail and your class teacher should get a copy. (20 marks)

Cloze test. (10 marks)

It never 1 _____ to amaze me when I see leaders making generous pledges and promises on a 2 _____ to worthy causes knowing only 3 _____ well that once the emotion of the moment dissipates the commitment to follow 4 _____ on their commitment also goes.

Apparently, personal 5 _____ has fallen victim of a society that is no longer disturbed by 6 _____ promises and 7 _____ ; a culture where lying is 8 _____ with being wise. Even under oath, some people feel quiet at ease 9 _____ or stretching the truth and they get away 10 _____ it.

b) Oral skills (30 marks)

Oral poem: There was a little man.

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There was a little man
And he had a little gun
And his bullets were made of lead, lead, lead.
He went to the brook
And he saw a little duck
And he shot it right through the head, head, head.

He carried it home,
To his old wife, Joan,
And lit her a fire to make, make, make
To roast the little duck
He had shot in the brook
And he'd gone and fetch her the drake, drake, drake.
The drake was swimming,
With his curly tail,
The old man made his mark, mark, mark,
He fired his shot,
But he fired too soon,
And the drake flew away with a quack, quack, quack.

(Anonymous)

c) i. Identify and illustrate two sound patterns brought out in this oral poem. (4 marks)

f) If you were to perform this oral poem, how would you make it more interesting?
(2 marks)

d) Underline the stressed syllable when the following words are used as either nouns or verbs as indicated in the brackets. (4 marks)

d) Refuge. (noun)

e) Subject (verb)

f) Conduct (verb)

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- g) Present (noun)
- e) Write the homophones for the following words. (4 marks)
- e) Berth-
- f) Bough-
- g) Hail-
- h) Cede-
- f) Imagine the Cabinet Secretary for Education has visited your school to give a talk on essence of education. How would you ensure that you benefit from the talk maximally? (4 marks)
- g) For each of the following utterances indicate whether you would say it with rising or falling intonation. (4 Marks)
- 3) Which factory does John work?
- 4) Did you say you are moving out?
- 5) How do you rate your parents?
- 6) They offer very delicious food in that hotel.
- h) Identify silent letters in the following words. (4 marks)
3. Heir-
4. Bomb-
5. Know-
6. Solve-

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- i) The following is a conversation between a teacher and a student. Fill in the blanks with appropriate exchanges. (4 marks)

Student:

Teacher: Yes, come in.

Student:

Teacher: How do you do?

Student:

Teacher: I am sorry, I left my copy at home, but I can request my colleague to assist you with one.

Student:

Teacher: welcome.

KCSE PREMOCK SET 3

101/2

ENGLISH

PAPER 2

(Comprehension, Literary Appreciation and Grammar)

COMPREHENSION

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

Unscrupulous as he was, Kwame Asante had a qualm as he looked at the woman sitting on the African stool near the bed. He had called her and yet when she came he did not quite know how to begin the conversation.

“Akosua, how would you like fifty pounds to start a small business of your own – selling cloths or perfume and powder?” The woman smiled nervously. Ten years of married life had made her wary of her husband’s fits of generosity.

She was as black as ebony, with the fine features peculiar to the girls of the Akwapim hills; graceful in her brown and red design cloth and the lovely silk head-tie wrapped round her head. Her feet were shod in ‘spitfire’ sandals and on her tiny ears she had the popular golden ear-rings named ‘Abongo’.

The slender woman on the stool was the mother of three children though she still looked a girl. Married under the native customary law, she had served her lord and master with zeal and zest. It is a law which as some other law in the Gold Coast, needs disinfecting for though it aids the man to gain his desire when it is at its fiercest, it in no way safeguards the position of the woman when the man’s passion abates.

“Would you like fifty pounds?” asked Kwame again. “Could make it a hundred. You have been a very good wife to me, Akosua.” Did the truth begin to dawn on the woman’s consciousness? No. She thrust the thought away from her. ‘He could not do it’.

Kwame cleared his throat – after all he might as well get it off his chest: hadn’t she noticed that the whole relationship had become impossible? A cloth woman was all right when one was young and struggling. She could be so useful – a general servant, and yet a wife. Akosua was so gentle, and even quite refined, but a man needs a change. He had just completed his two-storied

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building and he had been made a committee member of an important club. The other day his academy had conferred on him an associateship and his university had given him a coveted degree. He had at last achieved his ambition and had become an important man in the community. He was thinking seriously of entering the town council.

Fancy being addressed councilor Kwame Asante, O.B.A.... A.S.S. He smiled inanely to himself. Akosua looked at him in wonder.

“Er..... er.... Akosua....., I want to tell you I am going to marry a lady; you will be paid off with a hundred pounds. A.... frock..... lady....um.....er of course you can read and write Ga and Twi but my friends will call you an illiterate woman.”

“Did you consult your friends before you married me ten years ago?” The voice was cold and calm, yet the words cut like a whip.

“If you are going to be impertinent, I shall not discuss the matter further.” He got up and walked up and down the room. “How many men in the Gold Coast will pay a woman off with one hundred pounds? You are only entitled to twenty-five pounds and here I am out of kindness offering you a hundred. Show some gratitude, Akosua.” Akosua looked at him. Stark misery was in her eyes.

“I shall send the children to Achimota College.” There was a whining note in his voice. “I am only doing this because of my position in society. You see I may be called to Government House and other important places..... say something Akosua.

“I say you can keep your twenty five pounds, fifty pounds or a hundred pounds. I will have nothing to do with it. I will not be paid off.

“What! What! Come! Come! Don’t do anything rush!”

“If you dare touch me I shall strike your face.”

“Strike your master, your husband! Are you mad?”

“I shall leave this house.”

“If you dare to disgrace me by leaving the house before I am ready for you to go, there will be trouble. I do not intend to put up with a willful woman. What is my sin after all? I only want to become a decent and respectable member of society. If you leave this house without my knowledge and permission, I shall claim every penny I have spent on you since I married and lived with you these ten years; and not only that but I shall claim all the presents I have given to your parents and other relatives. You know our native customary law.”

“Yes, I know your native customary law. It is a grave to bury women alive whilst you men dance to the tom-tom on top of the mound of earth.”

Questions

Why does Akosua smile nervously when Kwame offers her fifty pounds to start a small business of her own? (2mks)

.....
.....

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.....
Explain the effect of Akosua’s silence on Kwame? (2mks)

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.....
In not more than 60 words, summarize the reasons for Kwame’s intention to marry another wife. (4mks)

.....
.....
.....
.....
.....
.....
Identify a statement from the passage which proves that Kwame was ashamed of the action he was about to take. (1mk)

.....
.....
.....
.....
.....
.....
What is Kwame Asante’s burning ambition? (1mks)

.....
.....
.....
.....
.....
.....
Rewrite the following sentence in reported speech
‘Did you consult your friends before you married me ten years ago?’ Akosua asked Kwame.
(1 mks)

.....
.....
.....
.....
.....
.....
Give an instance of irony in the passage. (2mks)

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.....

'It is a grave to bury women alive whilst you men dance to the tom-tom on top of the grave.'
Explain the meaning of this statement. (2 marks)

.....
.....
.....
.....

What is Kwame's attitude towards women? (2mks)

.....
.....
.....

Explain the meaning of the following words and phrases as used in the passage. (3 mks)

- Disinfecting
- The words cut like a whip
- Impertinent

LITERARY APPRECIATION:

BLOSSOMS OF THE SAVANNAH

Read the following excerpt and answer the questions that follow.

Although Resian had a lot to complain and grumble about in life in their new environment, Taiyo found it tolerable. For instance,

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she gladly discovered that mornings in their new home began with a lively chatter of birds in the trees surrounding their house. That gave the home an atmosphere of tranquility and peace.

However, one of the unpleasant aspects that the girls had to live with was the constant violation of their privacy. In Nasila, they soon discovered, the home belonged to all the clan members. It was not an unusual thing to get up in the morning to find the living room full of men and women who came early, not for any tangible business, but simply to share a sumptuous breakfast with their kith and kin. Taiyo and Resian were soon to get used to hearing an urgent knock at the door very early in the morning.

On opening, they would invariably be met by a grinning group of men or women who would unashamedly ask them what they were doing in bed that late in the morning. They would proceed to take seats in the living room and order them to serve them breakfast. When they got used to what at first, they considered negative aspects of the Nasila culture, Taiyo and Resian adjusted accordingly and soon they began to live harmoniously with the people. Their father was out of the homestead most of the time working at the shop and organizing other business matters. His absence meant the absence of his irksome and corrosive remarks that always heightened tension in the house. In his absence, the house was a continuous joy with comfort and conveniences, and the girls found it pleasurable to keep it clean and well-arranged.

Questions

What happens immediately after this extract? (5 marks)

.....
.....
.....
.....
.....

Where had the family been living before and why did they move? (3 marks)

.....
.....

Give the character traits of the following: (6marks)

Taiyo

The people of Nasila

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.....
.....
.....
.....
Discuss a theme implied in the extract. (4 marks)

.....
.....
.....
.....
Using the rest of the book, cite and explain one cultural aspect that had a life changing effect on the lives of the two girls (4mks)

.....
.....
.....
.....
Explain a stylistic device used in the extract. (2mks)

.....
.....
.....
.....
Taiyo and Resian adjusted accordingly? Add a question tag. (1mk)

ORAL LITERATURE

The Man, His Son and The Squirrel

There was a certain town whose only occupation was catching squirrels (ground squirrels). There was a man in this town who excelled at catching squirrels. One squirrel was so smart that it eluded everyone in town. It was said that only this man said to his son, “Come, let’s go to catch the squirrel.” They took an axe; they found the squirrel near its hole. Then the squirrel ran and entered its hole. They searched out all the holes, then they stopped them up. Then the man said to his son,

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“Don’t let the quirel get out of its hole.” He answered, “Okay.” But one hole wasn’t stopped up, and the squirrel escaped. When it escaped, the father came to his son and said to him, “Why did you let it escape? If I go home now, I will beashmed.” He grabbed the axe and struck his son. Then he went on his way and left his son unconscious. Ants began to fill his eyeballs an his ears; vultures were circling above him.

In the afternnon, the headman of a rich caravan arrived at the spot. When he arrived, he setp up camp. Then he got up and went for a stroll and saw the boy. He called his slaves to take him and have him washed and shaved. The boy recovered. The headman had no offspring. When he took the boy, he decided that he would make him his son. He sent a message to the chief of the town, telling him that he had an offspring, that he was happy he had become a complete man, and that he would now receive the gifts due to him.

The chief said, “This is a lie. He is not his son. If he is his son, then let him come that I can see.” Then the headman arrived in town. The chief gave his sons horses worth ten pounds. He said, “Go and join the son of the headman. Have a race. When you finish give these horses away” (forcing him to do the same). They did it and they returned. the next day, the chief again gave them horses worth ten pounds. They did as the day before. They did it five times. They ran out of horses. Then the chief said, “Indeed, it is his son I have run out of horses. If it weren’t his son, he wouldn’t agree to let him give his own horses away to match the presents.” Then the chief summoned his daughter. The Gralladima brought his to help. The Madaki also gave, and the Makama gave. Altogether, four wives. The chief gave a big house. The headman came and brought twenty concubines and gave to his son. There was continuous feasting.

Then one day the son saw his father, the one who had knocked him down with the axe because of the squirrels. The father came to the house of his son and said, “Throw away your gown and start catching squirrels.” The slaves of the headman said, “This is a crazy man, let us all strike him.” The boy said to him, “This is my father, the one who sired me.” The headman said, “I have already lied to the chief. Let us keep that secret. I will give your father wealth. Let him go home. Should he want to see you, let him come to visit you. If you want to see him, then you can go and visit him.” The real father said he did not agree. Then the headman said, “Well then, let us go out in the countryside.” They went. The headman unsheathed his sword. He handed it to the son, and said, “Kill one of the two of us.” Here ends the story.

Questions

- (i) Classify the above narrative. (1 mk)

.....
.....

- (ii) What are the characteristics of the above classification? (2 mks)

.....

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.....
What is the function of this narrative? (1 mk)

.....
Identify and illustrate any three features of oral narrative evident in the story. (6 mks)

.....
Give one economic activity that is undertaken by the community referred to in this narrative. (2 mks)

.....
Describe the character of the following:
The young man (2 mks)

.....
(ii) his father (2 mks)

.....
(e) Whom do you think would be the most appropriate audience of this story. (2 mks)

.....
(f) What is the moral lesson of this narrative? (2 mks)

GRAMMAR

Rewrite the following sentences as instructed.

(i)(a) The photographs will be taken at the venue of the wedding. The photographs will be taken in a reputable studio. (Combine into one sentence using 'eitheror,,,,') (1 mk)

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.....
(b) Neither the children nor the peasantallowed to go to the hall yesterday.
(Rewrite filling the blank with an appropriate auxiliary verb). (1 mk)

.....
(ii) (a) The principal noticed serious laxity among the students. He warned them against such
behaviour. (Combine the sentence using present participle.) (1 mk)

.....
(b) The farmer’s cow gives twenty-five kilos of milk everyday. He feeds and waters it very
well. (Combine using the present participle). (1 mk)

.....
(iii) Underline the gerund in the following sentence.

Kibet is studying but swimming is his hobby. (1 mk)

(iv) Replace the underlined word with a phrasal verb.

It is not good to despise other people. (1 mk)

.....
I am currently living with my brother in Karen. (1 mk)

.....
The principal was annoyed with the three boys. (1 mk)

Rewrite the following sentences correcting the errors.

(i) There are situations of which you need to act with speed or else the consequences will
catch up with you. (1 mk)

.....
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- (ii) She likes football as it is more superior than hockey. (1 mk)

.....

Fill in the blanks with the appropriate prepositions.

- (i) He was chargedforging property inheritance document. (1 mk)

- (ii) Kamau dealsgroceries. (1 mk)

Give two meanings from the sentence below.

- “Did you see the girls with a telescope?” (1 mk)

.....
.....
.....
.....

Use the correct form of the words in the brackets to fill in the blanks.

- (i) The couple has applied for a divorce overdifferences. (reconcile). (1 mk)

- (ii) That matter is highly(contest) in a court of law. (1 mk)

KCSE PREMOCKS PAPER 3

101/3

English Paper

ANSWER THREE QUESTION ONLY

Your relatives have organized a farewell party for you in preparation for your departure to the USA for further studies. Write the speech that you will deliver on that day.

2) Drama (compulsory) (20 marks)

The past always catches up with the present, sometimes with some unintended consequences. Using the play, A Doll's House, explain this statement.

3) Optional set texts

Either (20 marks)

a) The Short Story

The grass is always greener on the other side of the fence. Using the stories in the anthology, Memories we Lost and other Stories, discuss this adage. (20 marks)

Or

b) Drama

Using the play, Inheritance, explain the saying: the mouth that eats the seeds asks what it will plant. (20 marks)

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Or

c) The Novel

The sea shapes the destiny of the Kino family. Discuss this statement using the book The Pearl.
(20 marks)

KCSE PREMOCK SET 3

KARATASI 102/1

INSHA YA LAZIMA

1. Andika mahojiano baina ya waziri wa usalama wa kitaifa na waandishi watatu wa habari kuhusu hali ya usalama nchini
2. Pendekeza hatua zinazopaswa kuchukuliwa kukuza umoja wa kitaifa
3. Mla cha mwenziwe na chake huliwa
4. Tunga insha itayoanzia kwa maneno yafuatayo .
5. Alfajiri ya siku iliyofuata ilinipata nje ya mlango wa hospitali kuu ya kijito. Punde si punde milango ya wodi ikafunguliwa. Machozi yalinitiririka njia mbili nilipotupa macho kwenye kitanda alicholazwa mamangu. Hakuwepo.....

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KCSE PREMOCK SET 3

KARATASI 102/2 (LUGHA)

UFAHAMU: (ALAMA 15)

SOMA MAKALA YAFUATAYO KISHA UJIBU MASWALI

Baada ya biashara ya utumwa kupigwa marufuku katika karne ya kumi na tisa kule Marekani, watu weusi na wa rangi waliendelea kukabiliwa na dhuluma za kila namna. Walidhalilishwa na kuchukuliwa kama binadamu wa hadhi ya nchini kuliko weupe. Sheria zilitumika kuweka mipaka ya maingiliano kati ya raia wan chi moja. Weusi wangepatikana popote palipotengwa weupe wangepachukuliwa hatua za kisheria.

Katika usafiri wa umma, Mmarekani mweusi alitakiwa kisheria kumpisha kiti Mmarekani mweupe ndani ya chombo cha usafiri. Aliyevunja sheria hii alitiwa mbaroni au kuhukumiwa kifungo pamoja na faini. Halikadhalika, alihatarisha maisha yake kwani angevamiwa na makundi ya wakereketwa kama vile *ku klax klan* (kkk) ; kundi ambalo lilitetea vikali udumishaji wa ubaguzi wa rangi.

Hii ndiyo iliyomchosha mwanamke, Mmarekani mweusi Rosa Lee Parks. Akajifunga kibwebwe kukaidi sheria dhalimu na kupigania mabadiliko ya jamii. Akakamia mabadiliko yaliyolenga kuleta usawa wa kijamii na haki kwa wote bila kubaguliwa.

Mwanamke huyu aliyepewa lakabu ya ‘Mama wa Mapigano ya Haki za Kimsingi’ ni wa asili ya watumwa waliotwaliwa kutoka Afrika kwenda kutumikishwa na weupe katika mashamba yao kule Marekani. Alizaliwa Februari 14 mwaka 1913 huko Tuskegee, jimbo la Alabama. Masomo yake ya awali yalikuwamizwa na maradhi, pamoja na umaskini uliokabili familia yake. Hata hivyo baada ya ndoa yake na Raymond parks, manamo 1932, bwanake alimhimiza kwenda shuleni.

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Elimu aliyoipata Rosa pamoja na ushawishi wa mumewe ulimfungua macho kuhusu ubaguzi wa rangi katika jamii yake. Alijiunga na kundi la wanaharakati walokua wakitetea watu weusi, pamoja na suriama. Rosa alichukizwa na ubaguzi uliotamalaki katika jamii yake. Alikirihwa na sheria zilizoigawa jamii katika msingi wa rangi huku zikimtukuza mtu mweupe na kumtweza mweusi.

Kilele cha kuudhika kwa Rosa kilikuwa pale Desemba mosi 1955. akiwa ndani ya basi, abiria mweupe alitokeza na kumwamuru Rosa ampishe kiti alichokuwa amekalia. Miguu ya Rosa ilikuwa inauma. Hakuona ni kwa nini asimame ampishe abiria mwenzake ambaye alikuwa amelipa nauli sawa na yake. Rosa alikuwa amechoka na vitimbi vya kubaguliwa na kuchukuliwa kama mwananchi wa hadhi ya chini. Alikataa katakata kumpisha abiria huyu kiti.

Rosa alijua fika kuwa tendo lake la maasi lingempeleka kuhukumiwa jela, kutozwa faini, kutishwa, kuumizwa au kuuliwa na makundi ya **wakereketwa** weupe. Lakini yote haya aliyaweka pembeni ili atetee haki na usawa katika jamii.

Kwa uasi huo, Rosa alikuwa amekiuka sheria. Alitiwa mbaroni na kuhukumiwa kifungo na faini ya dola nne za Kimarekani; kiasi kilichokuwa kikubwa sana wakati huo. Hukumu hii ikazua maandamano dhidi ya sheria za ubaguzi. Umma ukiongozwa na kasisi wa Kibaptisti Martin Luther King uliungana na Rosa kutetea haki na usawa. Umma ukagomea mabasi kwa muda wa siku 381 huko Montgomery, Alabama. Migomo hii, pamoja na maandamano yakaishurutisha serikali kuanza juhudi za kuleta usawa na haki kwa wote Marekani. Juhudi hizo zilizoanzishwa na kuasi kwa Rosa zikafikia upeo wake mwaka 1964. Mwaka huo, serikali ya kitaifa ya Marekani ikapitisha sheria iliyopiga marufuku ubaguzi wa rangi.

Bi Rosa Lee Parks, aliyekufa akiwa na umri wa miaka 92, ni kielezo cha **nguvu fiche za** wanawake ambazo zinaweza zikatumika kutetea hadhi, haki na usawa wa wote waliokandamizwa. Atakumbukwa kama mtu aliyepigania binadamu kuwa huru na kupewa hadhi kama binadamu bila kubaguliwa. Alikuwa amechoshwa na unyasaji na kufedheheshwa. Silaha pekee aliyokuwa nayo ni uasi kwa njia ya amani. Silaha iliyotokeza kuwa na nguvu kuliko zaidi kuliko mtutu wa bunduki. Hili ni funzo kwa watu waliobaguliwa, hasa wanawake, kote duniani wanaoendelea kukandamizwa na tamaduni zinazotukuza **ubabe** wa kiume. Bila shaka hao wanaweza kumwiga Rosa na kubadilisha hali zao kama alivyoweza Rosa.

Maswali

Biashara ya utumwa ilipigwa marufuku lini kule Marekani?

(alama1)

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.....
Kwa nini Rosa Parks alipewa lakabu ya mama wa mapigano ya Haki za Kimsingi
(alama 2)

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.....
Fafanua dhuluma ambazo Wamarekani weusi walikabiliana nazo kulingana na taarifa hii

(alama4)

.....
(i) Onyesha matokeo ya matendo ya Rosa kwa jamii ya Wamarekani na ulimwengu mzima.

(alama

2)

.....
.....
.....
.....
.....
.....
.....
(ii) Ni funzo gani unalolipata kutokana na maisha ya Rosa?

(alama

1)

Je,ni kweli kuwa silaha aliyokuwa nayo Rosa Parks ilikuwa na nguvu kuliko mtutu wa bunduki? Tetea jibu lako. (alama 2)

.....
.....

Eleza maana ya maneno yafuatayo kama yalivyotumika katika taarifa (alama3)
Nguvu fiche

.....
.....
.....
.....

Wakereketwa.

.....
.....
.....

Ubabe.

MUHTASARI: (ALAMA 15)

Sisi vijana wa Kenya inatupasa tuwajibike kufanya kazi kwa bidii na kwa dhati ya mioyo yetu ili tuweze kupata ufanisi na uwezekano wa kuinua nchi yetu changa katika kiwango cha juu.tukumbuke, “Ajizi ni nyumba ya njaa”. Kwa hivyo basi haifai kulaza damu ikiwa matatizo nchini mwetu yametunzonga. Lazima tufanye kazi kwa busara, adabu njema na jitihada kwa moyo mmoja. Sharti tutilie maanani zaidi elimu ya vijana na watu wazima, kilimo, uchumi na amani katika nchi yetu. Tunahitaji taifa lenye watu walioelimika kwani bila elimu itakuwa vigumu sana kuweza kutekeleza mipango mbalimbali ya maendeleo. Tupende tusipende lazima tuzidishe mazao mashambani kwani kila kukicha idadi ya watu inaongezeka. Ni sharti tuweze kujitosheleza katika vyakula. Zaidi ya hayo pia lazima tujishughulishe na biashara ambapo kwa sasa ni wakenya

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wachache sana ambao wanatambua umuhimu wa biashara. Wengi ni wale wenye mawazo ya kwamba lazima kila mmoja aajiriwe maishani. Yatupasa tujitahidi kuleta uchumi katika mikono ya wananchi wa Kenya badala ya kuwaachia wengine ambao hawahusiki.

Mafunzo tunayopata majumbani, shuleni na hata katika jamii, lazima yatuwezeshe kutambua mbinu za kupitia. Tunahitaji elimu tambuzi ambayo itamfanya Mwanakenya kujua wajibu wake katika jamii. Tumesinywa na elimu pumbao; inayotupumbaza na kutufanya tusiwe mbele. Sisi vijana tukiwa viongozi wa siku zijazo tuwe kielezo chema kwa wengine. Watu lazima washirikiane na kufikiria kwamba wao niwamoja, “utenganoni uvundo”. Lugha ya taifa ndicho chombo pekee ambacho kinatuunganisha na kuweza kutuwasilishia mapendekezo, mawaidha na hisia zetu. Kukosa ndiko kibinadamu, wakati tunapokosea ,lazima tukubali tumekosea na kufanya msahihisho mara moja kwani, “usipoziba ufa utajenga ukuta”. Tusikasirike kwa sababu tumesahihishwa makosa yetu na mwenzetu. Lazima tujitoe mhanga na kupigania nchi yetu tukiwa wazalendo halisi.

Sisi tukiwa vijana sharti tujishughulisha na kuyaangalia matatizo ya nchi, pia kutafuta njia za kutatua matatizo hayo. Siku zote tutekeleze nidhamu shuleni na majumbani mwetu. Ili watu waweze kuishi maisha bora na kuwa na maendeleo, amani na upendo, lazima tuwe na bidii, ushirikiano mwema na kuchagua viongozi wenye mioyo ya maendeleo. Tukiwa viongozi ambao hawajishughulishi na maendeleo,basi tutabaki nyuma kama mkia siku zote. Bahati mbaya ni kwamba wananchi wengi siku hizi huchagua viongozi wao kwa kufuata ukoo ama kwa utajiri wake. Kwa hivyo basi, tuchagueni viongozi ambao wanatuletea ufanisi badala ya wanaotokana na nasaba kubwa au utajiri.

Fupisha aya mbili ya mwanzo. (Maneno 70-75) (alama 10,1 ya mtiririko)

Matayarisho

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.....

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.....
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Jibu
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Dondoa hoja muhimu katika aya ya mwisho. (Maneno 30-35) (alama 5,2 za mtiririko)

Matayarisho
.....
.....
.....

Jibu
.....
.....

**SEHEMU YA C: SARUFI NA MATUMIZI YA LUGHA
(Alama 40)**

Taja sauti zifuatazo
Kikwamizo sikhuna cha ufizi (alama 1)

Nusu irabu ya kaakaa gumu (alama1)

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kwa kutoa mifano eleza tofauti kati ya silabi wazi na silabi funge.
(alama2)

Bainisha mofimu katika neno:

Atamnywea (alama3)

Ainisha vitenzi katika sentensi hii (alama1)

Wanafunzi walikuwa wanakariri mashairi

(i) Eleza maana ya ngeli. (alama1)

(ii) Neno tembo linaweza kuwekwa katika ngeli mbili tofauti zitaje.
(alama2)

Andika katika hali ya ukubwa wingi (alama2)

Mzee huyu ana wake wengi.

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Yakinisha sentensi ifuatayo (alama2)

Hawakuwa wakicheza wala kuimba.

Andika kinyume cha sentensi ifuatayo. (alama1)

Tabasamu alijenga nyumba ya babu.

Tunga sentensi moja yenye masharti yasiyowezekana . (alama1)

Andika katika msembo wa taarifa. (alama

2)

“Nimeenda kumtembelea nyanyangu. Hatujaonana tangu mwezi jana,” mjukuu alisema

Kwa kutoa mifano eleza matumizi mawili tofautiwa alama ya vifungo.

(alama 2)

Tunga sentensi yenye muundo ufuatao (alama

4)

$KN(N+s) +KT(T+KH+KE)$

Tumia ni katika sentensi moja kuleta dhana ya kitenzi na kielezi. (alama

Onyesha aina za shamirishokatika sentensi ifuatayo (alama

3)

Watoto wanalipiwa karo kwa hundi na wazazi wao

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Eleza maana mbili za sentensi hii (alama
2)
Njoki amkimbia Fatuma

Tunga sentensi mbili kutofautisha vitate hivi kimaana (alama
Landa

Randa

Tumia kirejeshi 'o' tamati katika sentensi ifuatayo (alama
2)
Cheo ambacho amepewa ni kile ambacho anakitaka.

Iandike sentensi upya kulinga na maagizo (alama
2)
Mwanariadha mmoja tu ndiye aliyefuzu katika mbio hizo (Tumia hakuna na ila)

(i) Eleza maana ya shadda. (alama

(ii) Weka shadda katika maneno yafuatayo. (alama1)

Mahakamani

Nchi

SEHEMU YA D: ISIMU JAMII (Alama 10)

Kwa nini kulikuwa na haja ya kusanifisha lugha ya Kiswahili (alama

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“...watu wa kaunti ya makueni wamesahaulika kabisa. Ningependa kuelezwa kinagaubaga kama hawa ni wakaenya au la. Order! Order! Mheshimiwa Tata. La! Tumekuwa marginalized kwa muda mrefu sana.....

Hii ni sajili gani?

(Alama 2)

Eleza sifa tatu za sajili iliyotajwa.

(Alama3)

KCSE PREMOCK SET 3

102/3

KISWAHILI

KARATASI YA 3

MAAGIZO

1. Jibu maswali manne pekee
2. Swali la kwanza ni la lazima
3. Maswali hayo mengine yachaguliwe kutoka sehemu zilizobaki; yaani B,C,D au E
4. Usijibu maswali mawili kutoka sehemu moja.

LAZIMA -RIWAYA

CHOZI LA HERI- A. MATEI

h) “Riwaya ya Chozi la Heri inaakisi uozo uliomo katika Jamii nyingi barani Afrika”

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Thibitisha kauli hii kwa kurenjerea Riwaya (al
20)

SEHEMU B

TAMTHILIA KIGOGO (P. KEA)

- i) “Do ! Do ! Simameni ! Simameni! leo kutanyesha mawe ! “
- c) Eleza muktadha wa dondoo hili (al
4)
- d) Fafanua mbinu za lugha zilizotumika katika dondoo hili (al
4)
- e) Huku ukitoa mifano jadili hoja sita zinazodhihirisha jinsi mwanamke alivyosawiriwa
katika Tamthilia ya kigogo
(al 12)

AU

- j) Kwa kuirejerea Tamthilia ya Kigogo eleza jinsi mwandishi alivyotumia mbinu
ya Majazi

(al
20
)

SEHEMU C

HADITHI FUPI

TUMBO LISILOSHIBA NA HADITHI NYINGINE

(A.Chokoko na D.Kayanda)

- k) “Kwetu tunapigania mikono ielekee vinywani. Mzoea vya sahani, vya vigae
haviwezii”

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- c) Eleza muktadha wa dondoo hili
(al 4)
- d) Tambua tamathali mbili za usemi zinazojitokeza katika dondoo hili
(al 2)
- e) Fafanua sifa nne za msemaji
(al 4)
- f) Jadili maudhui ya utabaka ukirejerea hadithi husika
(al 10)

AU

- 1) Jadili maudhui ya usaliti katika hadithi;
 - 7) Mapenzi ya kifaraurongo
(al 10)
 - 8) Mame Bakari
(al 10)

SEHEMU YA D

USHAIRI

- m) Soma shairi lifuatalo kisha uyajibu maswali.*

Mungu naomba subira, subira nayo imani
Imani iliyo bora, bora hapa duniani
Duniani mwa kombora, kombora nayo hiani
Hiani pamwe ukora wenye kuhini.

Kuhini kwenye kiburi, kiburi na ufidhulu
Ufidhuli wa kudhuri, kudhuri wangu muwili
Muwili hata kidari, kidari kuwa thakili
Thakili kisinawiri, kisinawiri misuli.

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Misuli kuwa hafifu, hafifu kama muwele
Muwele wa hitilafu, hitilafi ya nduwele
Nduwele kutakilifu, kutakilifu milele
Milele kutoniafu, kutoniafu na vishale.

Vishale vinitomele, vitomele vikwato
Vikwato pia maole, maole kufanya mito
Mito ya matozi tele, tele mithili kitoto
Kitoto kilo vipele, vipele vyenye fiakuto.

Fukuto lanipa neno, neno hili kutamka
Kutamka wazi vino, vino subira kutaka
Kutaka imani mno, mno n'sipate wahaka
Wahaka wa matukano, matukano na mashaka.

Mashaka haya ya leo, leo yawe yarepita
Yanepita na vilio, vilia vipishe nyota
Nyota njema ingarao, ing'arao kunikita
Kunikita salamani, salamani nikadata.

- a)** Kwa nini nafsi neni inaomba subira na amani ? (alama 2)
- b)** Shairi hili ni la Bahari gani kwa kuzingatia : (alama 4)
- i) Mpangilio wa maneno
- ii) Mpangilio wa vina
- c)** Kwa kutokea mifano eleza mbinu mbili za lugha zilizotumika katika shairi. (alama 4)
- d)** Andika ubeti wa tatu kwa lugha nathari. (alama 4)
- e)** Kwa kutolea mifano, eleza jinzi uhuru wa kishairi ulivyotumiwa kutekeleza arudhi. (alama 6)

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AU

n) Soma shairi lifuatalo kisha ujibu maswali.

(alama

20)

Barabara.

Barabara bado ni ndefu
Nami tayari nimechoka tiki
Natamani kuketi
Ninyooshe misuli
Nitulize akili
Lakini

Azma yanisukuma
Mbele ikinihimiza kuendelea
Baada ya miinuko na kuruba
Sasa naona unyoofu wake
Unyoofu ambao unatisha zaidi.

Punde natumbukia katika shimo
Nahitaji siha zaidi ili kupanda tena
Ghafla nakumbuka ilivyosema
Ile sauti zamani kidogo
Kuwa tayari kupanda na kushuka.

Ingawa nimechoka
Jambo moja li dhahiri
Lazima niifuate barabara
Ingawa machweo yaingia
Nizame na kuibuka
Nipande na kushuka.

Jambo moja nakumbuka: Mungu
Je, nimwombe tena? Hadi lini?
Labda amechoshwa na ombaomba zangu

Nashangaa tena!

Kitu kimoja nakiamini
Lazima niendeleo kujitahidi kwa kila hatua mpya

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Nijikokote kuiandama hii barabara yenye ukungu

Nikinaswa na kujinasua

Yumkini nitafika mwisho wake

Ikiwa wangu mwisho haitauwahi kabla.

(Timothy Arege)

Maswali.

- (a) Taja na ueleze aina ya shairi hili.
(alama 2)
- (b) Eleza toni ya shairi hili.
(alama 2)
- (c) Fafanua dhamira ya shairi hili.
(alama 2)
- (d) Bainisha vipengele vifuatavyo vya kimtindo katika shairi hili.
(alama 3)
 - (i) Tanakali za sauti
 - (ii) Mbinu rejeshi
 - (iii) Taswira
- (e) Eleza umhimu wa maswali balagha katika shairi.
(alama 2)
- (f) Andika ubeti wa mwisho kwa lugha nathari.
(alama 4)
- (g) Eleza matumizi ya mistari mishata katika shairi hili.
(alama 2)
- (h) Eleza maana ya misamiati ifuatayo kama ilivyotumika katika shairi.
(alama 3)
 - (i) Kuruba

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- (ii) Siha
- (iii) Machweo

SEHEMU E FASIHI SIMULIZI

o) Soma makala yafuatayo kisha ujibu maswali yaliyoulizwa.

Hapo zamani za kale, Mungu alituma wajumbe wawili waende duniani. Wajumbe hawa ni Kinyonga na Mjusi. Kwanza alimtuma Kinyonga na kumwagiza akaseme “wanadamu hamtakufa.” Kinyonga alienda kwa mwendo wa kuduwaa, akasimama hapa na pale akila matunda ya miti. Kwa sababu ya hali hii alichelewa sana kufikisha ujumbe kwa binadamu.

Baada ya muda kupita, Mungu alimtuma Mjusi na ujumbe akaseme, “Mwanadamu sharti kufa.” Mjusi aliunyanyua mkia akafyatuka pu! Mbio akawahi duniani kabla ya kinyonga kuwasili. Kwa haraka alitangaza agizo kuu, “Wanadamu sharti kufa!” Akarejelea haraka kwa Mungu. Baada ya muda kinyonga naye akafika duniana na kutangaza, “Wanadamu hamtakufa!” Wanadamu wakapinga mara na kusema, “La! Tumeshapata ujumbe wa Mjusi, wanadamu sharti kufa! Hatuwezi kupokea tena neno lako! Basi kulingana na neno la mjusi, wanadamu hufa.

- a) e) Tambua aina hii ya hadithi
 - (al 2)
- f) Toa sababu za jibu lako katika (a) i.
 - (al 1)
- h) Eleza sifa tatu zinazohusishwa na ngano za fasihi simulizi katika hadithi hii.
 - (al 3)
- i) Fafanua hulka mbili za Kinyonga kwa mujibu wa makala haya
 - (al 2)

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j) Hadithi hii ina umuhimu gani?

(al 4)

k) Taja njia zozote nne za kukusanya kazi za fasihi simulizi

(al 4)

l) Fafanua jinsi jamii ya kisasa inavyojaribu kuendeleza fasihi simulizi

(al 4)

KCSE PREMOCK SET 3

443/1

AGRICULTURE

SECTION A (30 Marks)

1. List three aspects of light that influence crop production (1¹/₂ marks)

2. State two causes of hard pans in the farm (1 mark)

3. At what stages of growth should tomatoes seedlings be transplanted? (1mark)

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4.State two ways through which rainfall reliability influence crop production (1mark)

5.List four reasons for using certified planting materials (2 Marks)

6.List four benefits a farmer would derive from being a member of dairy co-operative society(2marks)

7. a) Differentiate between under sowing and over sowing in pasture management (2 marks)

b) State four advantages of under sowing in pasture production (2 marks)

8.State four control measures of maize streak viral disease (2 marks)

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9. State three qualities to consider when selecting agro forestry trees (1½ marks)

10.State four types of product –product relationship in farm economics (2 marks)

11.G ive four reasons for land fragmentation (2 marks)

12.G ive three properties of a foliar fertilizers which makes it possible to use a foliar feed
(1½ marks)

13. State four advantages of crop rotation (2 marks)

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14. Give four conditions of the land which makes it necessary to carry out reclamation practices (2 marks)

15. List four advantages of timely harvesting of crops (2 marks)

16. State four factors affecting the efficiency of pesticide (2 marks)

17. State one method used in water harvesting ($\frac{1}{2}$ mark)

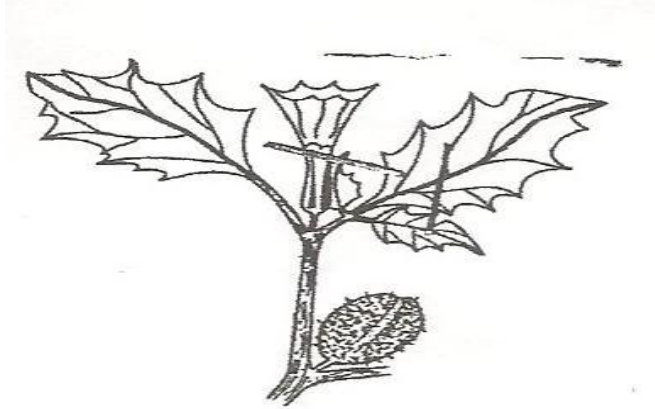
SECTION B (20 MARKS)

Answer all questions in this section in the spaces provided.

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18. The diagram below shows a common weed in crop land, use it to answer the question below.



(a) Identify the weed (1 mark)

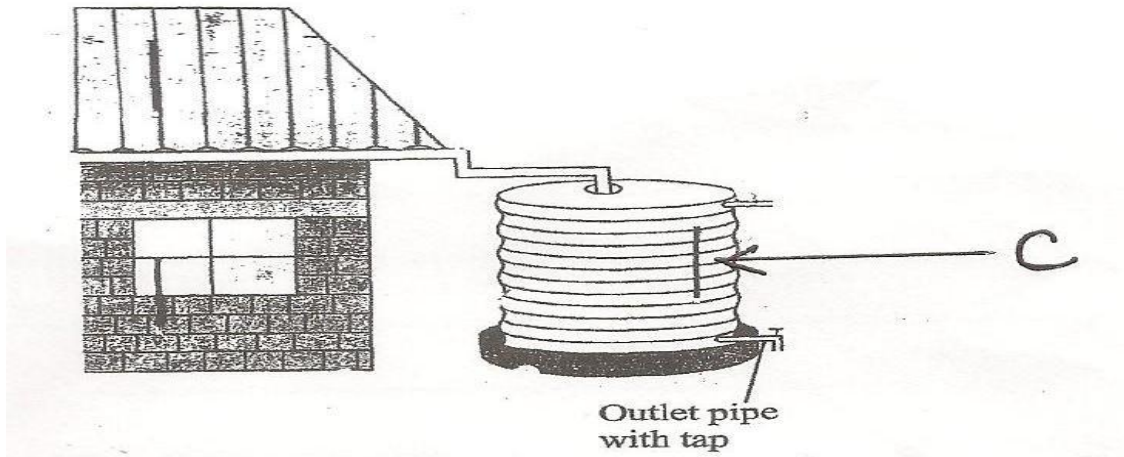
(b) State two harmful effects of the above weed to crop production (2 mks)

(c) List two morphological features of weeds that influence its selectivity to herbicides (2 mks)

19. The diagram below shows a structure used in collecting water in the farm

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(a) Identify the method of collection above (1 mk)

(b) Give **two** factors that will determine the amount of water collected in the above mentioned structure (2 mks)

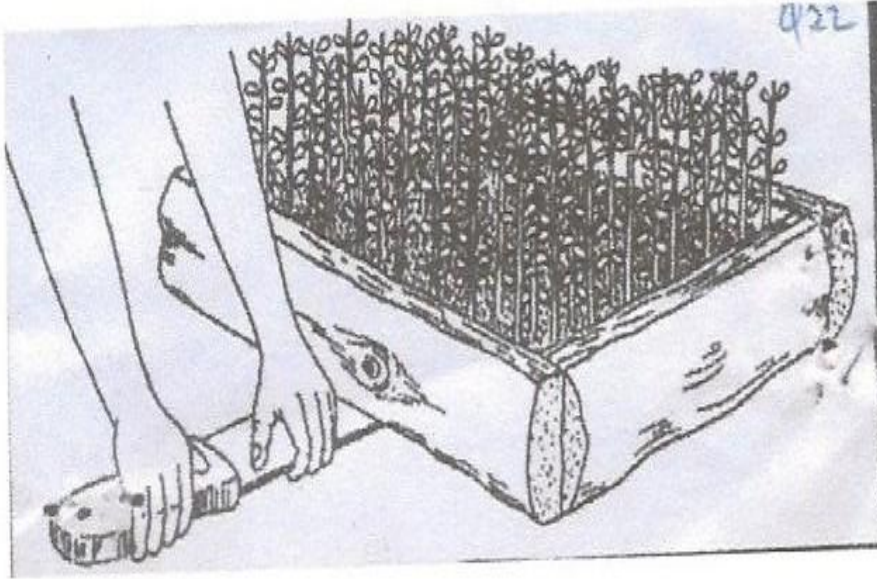
(c) outline **two** maintenances practice carried out on part labeled C above (2 mks)

(d) Name **one** other method used in collecting water in the farm (1 mk)

20. The diagram below shows a nursery management practice carried out on tree seedlings. study it and answer the question that follow.

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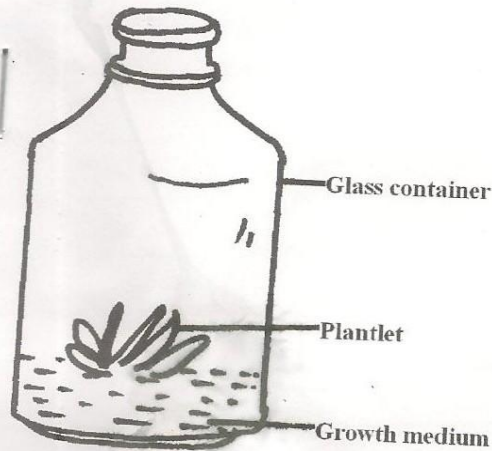
(a) Identify the management practice (1 mk)

(b) Give three reasons for carrying out the practice above (3 mks)

21. The diagram below illustrates materials and a method of vegetative propagation. Study it and answer the question that follows.

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(a).Identify the method of propagation illustrated above (1 mk)

(b)Name a common crop propagated through the method (1mk)

(c)Give three dis-advantages of this method of propagation.(3mks)

SECTION C (40 MARKS)

Answer any two questions in this section

22.(a) Describe the uses of financial documents commonly found on the farm (4 mks)

(b)Describe the functions of Kenya sugar authority (4 mks)

(c) A farmer has 160 ha of land,60 ha of which is under wheat ,32 ha under maize,12 ha under fodder crops and the rest under pastures. She wishes to know whether replacing 12 ha of maize with Irish potatoes the following year would be worthwhile. The fertilizer would have to be increased from 5 bags per ha for maize to 7 bags per ha for Irish potatoes and an extra 100 man

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–days casual of casual labour per ha will be necessary as a result of change. The average yields of maize and Irish potatoes is 45 and 115 bags per ha respectively. The prices are shs.1400 per bag for maize and ksh.1200 per bag for irish potatoes. Seed cost seed costs are shs. 2500 per ha for maize and shs.30,000 per ha for irish potatoes. Fertilizer costs are shs.1300 per bag.labour is paid at shs.150 per man-day.

Draw a partial budget and indicate the effects of change (12 mks)

23.(a) Describe the field management practices carried out in tomatoes production (10 mks)

(b)Describe the factors to be considered when choosing seed rates (6 mks)

(c)Describe the precautions a farmer should put into consideration when harvesting Cotton (4 mks)

24. (a) Explain the factors that influence the supply of vegetables in a market(10 mks)

(b)Describe the steps followed when making silage (10 mks).

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KCSE PREMOCK SET 3

443/2

AGRICULTURE

PAPER 2

SECTION A (30 MARKS)

1. Name three dual purpose breeds of sheep (1½ marks)

2.State four characteristics of a good site for a fish pond (2 marks)

3.Give four features of housing that helps to control livestock diseases (2 marks)

4. Name four systems of a tractor engine (2 marks)

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5. Give two reasons for using litter in a poultry house (1 mark)

6. Name four parts of farm building that can be reinforced using concrete (2 marks)

7. Give four disadvantages of inbreeding in livestock production (2 marks)

8. State two causes of soft shelled eggs (1 mark)

9.a) What is meant by the term three host tick? (1 mark)

b) Give two examples of two host tick in cattle (1 mark)

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10. Differentiate between crutching and ringing (2 marks)

11. Name four disadvantages of using animal power in the farm (2 marks)

12. State four causes of infertility in dairy cattle (2 marks)

13. Name four characteristics of duroc jersey pig breed. (2 marks)

14. Name four signs of anthrax diseases (2 marks)

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15. Explain how each of the following is measured in cattle.

(a) Blood temperature ($\frac{1}{2}$ mark)

(b) Respiratory rate ($\frac{1}{2}$ mark)

(c) Pulse rate ($\frac{1}{2}$ mark)

16. Differentiate between breed of animal and type of animal (2 marks)

17. Name two groups into which vitamins are classified (1 mark)

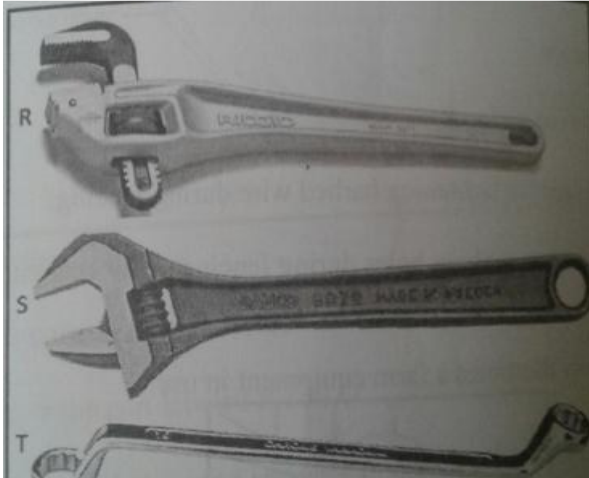
SECTION B (20 MARKS)

Answer all questions in the spaces provided.

18. The diagram labeled R, S and T below represents some tools.

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(a) Name the tools R, S and T. (3 marks)

R _____

S _____

T _____

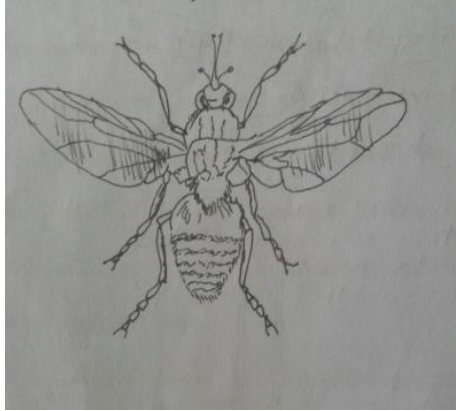
(b) What functional advantage does the tool labeled S have over the tool labeled T? (1 mark)

(c) Give the functions of the tool labeled R. (1 mark)

19. The diagram below illustrates a livestock parasite.

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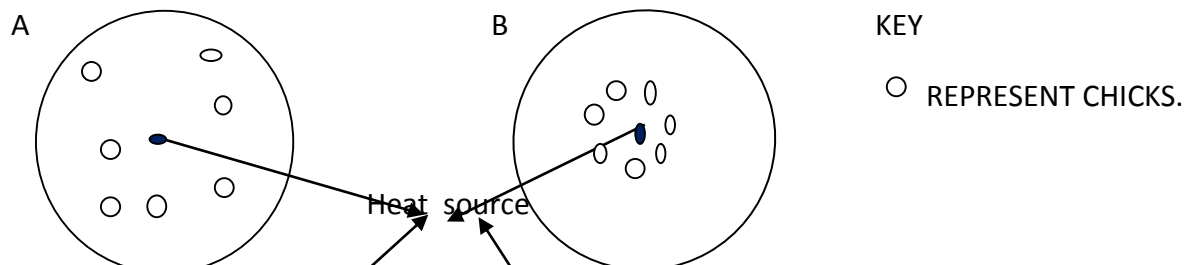


(a) Identify the parasite illustrated above (1 mark).

(b) State the major harmful effect of the parasite.(1 mark)

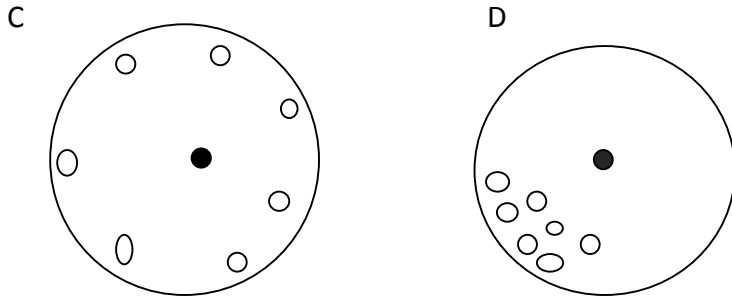
(c). Explain four control measures of the parasite.(4 marks)

20. The illustrations below shows behavior of chicks in a brooder in response to certain conditions. Study it carefully and answer the questions that follows.



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(a) Explain the reasons for the behavior of chicks in the above diagrams (4 marks)

A _____

B _____

C _____

D _____

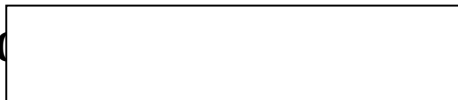
(b) Give two other signs the chick will show other than the ones you have given in (a) above. (1 mark)

(c) Outline two necessary conditions required in a brooder. (2 marks)

21. Below is a breeding cycle of an ewe in relation to the feeding regime accompanying it. use to answer the questions that follows

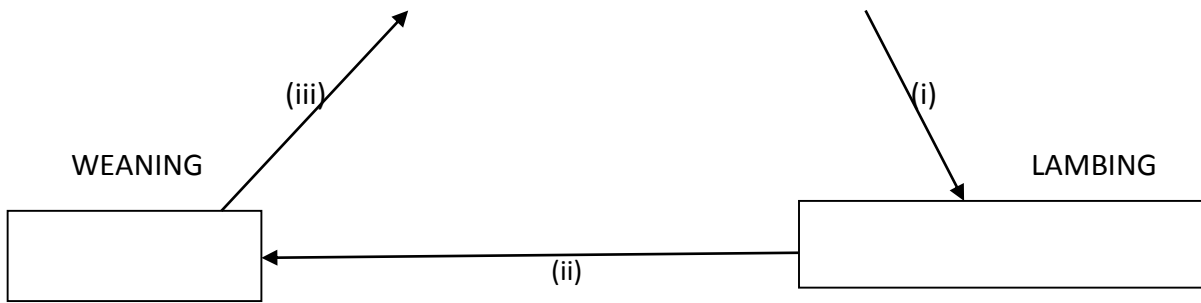
TUPPING

FOR MARKING SC



WATSAPP 0705525657

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(a) Identify the aspects of nutrition represented by (i), (ii) and (iii) (1½ marks)

(i) _____

(ii) _____

(iii) _____

(b) Give one importance of aspects (i) above (½ mark)

SECTION C(40 MARKS)

Answer any two question.

22.(a) Describe the activities that takes place during the digestion process in the rumen(5 marks)

(b) Describe foot rot disease under the following subheadings.

(i) Causal organisms (1 mark)

(ii) signs of infections (5 marks)

(iii) Control measures (4 marks)

(c) State five harmful effects of lice in pigs (5 marks)

23.(a) Give five reasons for keeping livestock healthy (5 marks)

(b) Describe the disease control routine management practices in calf rearing (10 marks)

(c) State the functions of any five parts of a zero grazing unit in dairy farming.(5 marks)

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24.(a)Describe the differences between petrol engine and diesel engine (10 marks)

(b)Give five precautionary measures that must be observed when harvesting honey (5 marks)

(c)Give five reasons why embryo transfer use should be encouraged in dairy cattle breeding.(5 marks).

KCSE PREMOCK SET 3

231/1

BIOLOGY

PAPER 1

m) Name the organelle that performs each of the following functions in a cell.

(2mks)

Proteins synthesis

.....
.....
.....

Transport of cell secretions

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.....
.....
.....

n) Explain what would happen to redblood cells if they are placed in concentrated salt solution.
(2mks)

.....
.....
.....

o) When is glycogen which is stored in the liver converted into glucose and released into the blood?

(1mk)

.....
.....
.....

p) An organism is with an exoskeleton, segmented body, two pairs of legs per segment, a pair of eyes and a pair of short antennae belongs to the phylum:

(1mk)

.....
.....
.....

q) (a)State the role of light in the process of photosynthesis.

(1mk)

.....
.....
.....

(b)Name one end product of dark reaction in photosynthesis.

(1mk)

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.....
.....
.....

r) State three characteristics that ensure cross-pollination takes place in flowering plants.

(3mks)

.....
.....
.....
.....
.....

s) Give a reason why it is only mutation in genes of gamete that can influence evolution.

(1mk)

.....
.....
.....

t) A shoot of seedling exposed to light on one side bends towards the source of light as it grows. Explain how the bending towards the source of light occurs.

(3mks)

.....
.....
.....

u) To estimate the population size of crabs in a certain lagoon, traps were laid at random. 400 crabs were caught, marked and released back into the lagoon. Four days later, traps were laid again and crabs were got out of the 374 crabs, 80 were found to be marked. Calculate the population size of the crabs in the lagoon.

(2mks)

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v) In an accident a victim suffered brain injury. Consequently he had loss of memory. Which part of the brain was damaged.

(1mk)

.....
.....
.....

w) State the role of the following features in the movement of tilapia fish.

(3mks)

5. Dorsal fin

.....
.....
.....

6. Caudal fin

.....
.....
.....

7. Pelvic fin

.....
.....
.....

x) State two advantages of metamorphosis to the life of insects.

(2mks)

.....
.....
.....

y) Why is oxygen important in the process of active transport in cells.

(2mks)

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.....
.....
.....

z) Explain how birds of prey are adapted to obtaining their food.
(2mks)

.....
.....
.....

aa) Name two functions of muscles found in alimentary canal of mammals.
(2mks)

.....
.....

..... Adult elephants flap their ears twice as much as their calves in order to cool their bodies when it is hot. Explain.

(2mks)

.....
.....
.....

bb) Name three types of chromosomal mutations.
(3mks)

.....
.....
.....

cc) Name three sites where gaseous exchange takes place in terrestrial plants.
(3mks)

.....
.....

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dd) State the functions of the following parts of the mammalian ear.

g) Tympanic membrane
(1mk)

.....

h) Eustachian tube
(1mk)

.....

i) Ear ossicles
(1mk)

.....

ee) Besides the abdomen, name the other body part of members of Arachnida.
(1mk)

.....

ff) Which type of joint is found at the articulation of:

i) Pelvic girdle and femur.
(1mk)

j) Humerus and ulna
(1mk)

.....

gg) How are leaves of submerged plant adapted for photosynthesis?
(2mks)

.....

.....

hh) (a) What is meant by the term sex –linkage?
(2mks)

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(b) Name two sex-linked traits in humans.

(2mks)

Name the structure that joins the bones together at the joint.

(1mk)

Name two disorders in human caused by gene mutation.

(3mks)

Plant cells do not burst when immersed in distilled water.

Explain.

(2mks)

ii) (a) Name a fat soluble vitamin manufactured by human body.

(1mk)

(b) State two functions of potassium in human body.

(2mks)

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jj) (a)What is the effect of contraction of the diaphragm muscles during breathing in mammals?
(3mks)

.....
.....

(b)Name two structures of gaseous exchange in aquatic plants.
(2mks)

.....
.....

(a) Name the products of anaerobic respiration in

iii) Plants
(1mk)

.....
.....

iv) Animals
(1mk)

.....
.....

(b)What is oxygen debt?
(1mk)

.....
.....

kk) State two ways in which the red blood cells are adapted to their function.
(2mks)

.....
.....

ll) (a) What is the meaning of the terms?

j) Homeostasis
(1mk)

.....
.....

k) Osmoregulation
(1mk)

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.....
(b)Name two hormones involved in regulating glucose level in blood.

(2mks)

.....
mm)

(a) What is adaptive radiation?

(2mks)

.....
.....
(b) Give a reason why organisms become resistant to drugs.

(1mk)

nn) (a) Name the hormone that is responsible for apical dominance.

(1mk)

.....
.....
(b)What is thigmotropism?

(1mk)

.....
(a) State a characteristics that is common to all cervical vertebrae.

(1mk)

.....
(b)Name two tissues in plants that provide mechanical support.

(2mks)

KCSE PREMOCK SET 3

BIOLOGY

Date.....

Paper 2

(Theory)

Answer ALL the questions in this section in the spaces provided

- 1) a) State four adaptive features that make *Schistosoma* a successful endoparasite. (4 marks)

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.....
.....
b) Name the disease caused by the *Schistosoma*

.....
c) Complete the table below which shows some parasites and the disease they cause

(3 marks)

	Parasite	Disease
i		Malaria
ii		Cholera
iii	<i>Entamoeba histolytica</i>	

m) a) What is mutation?

(1

mark)
.....
.....

b) Explain why certain bacteria and other pathogens become resistant to drugs after sometime.

c) Work out a cross between a haemophilic man married to a carrier woman for haemophilia.

(4

marks)
.....

d) State the phenotypic ratio of the four children

(1

mark)

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.....
a) What problems are experienced by fresh water and marine fish in their habitats?(2 marks)

.....
.....
b) Compare how the fresh water and marine fish overcome the problem identified above (4 mark)

.....
c) Explain why a person discharges urine more often when the environmental temperature are low than when they are high. (2 marks)

.....
A group of students set up the following experiments to investigate the factors that affect enzymes

Tube 1	Tube 2	Tube 3	Tube 4
Egg white Amylase/ptyalin at 30° C	Boiled starch Dilute acid Amylase 36 ⁰ C	Boiled starch Amylase	Boiled starch Amylase

p) Identify the property of enzymes being investigated in tubes 1 and 2 (2 marks)

.....
q) After 3 hours thee students tested the content in the four tubes for starch. They obtained the following results in tube 2, 3 and 4.

Tube 2 – Blue – black colour

Tube 3 – Brown colour of iodine remained

Tube 4 – Blues black colour.

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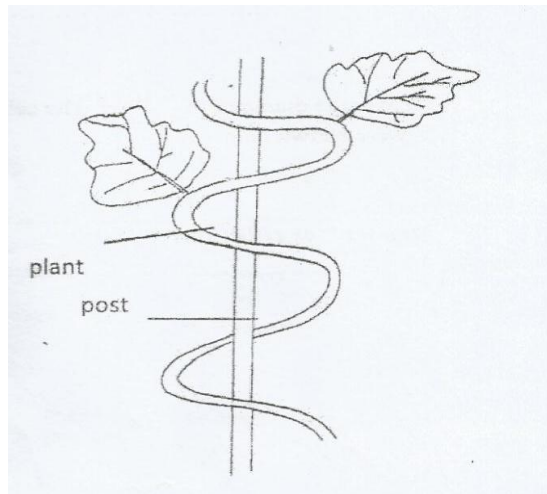
Account for the results obtained in tube 3 and 4.

(2 marks)

.....
What results would you expect in tube 3 if temperature was maintained at 5°C? Give a reason for your answer.

r) Name two enzymes found in the pancreatic juice (3 marks)

.....
n) The diagram below shows a stem of a passion fruit twinning around a post.



oo) What is the name given to the type of growth movement shown above? (1mark)

.....
pp) What is the biological importance of the growth mentioned in a(i) above? (1mark)

.....
qq) (i) Account for the twinning growth responses exhibited by plants. (3marks)

.....
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ii) Name three other types of growth responses exhibited by plants.

(3marks)

SECTION B (40 marks)

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

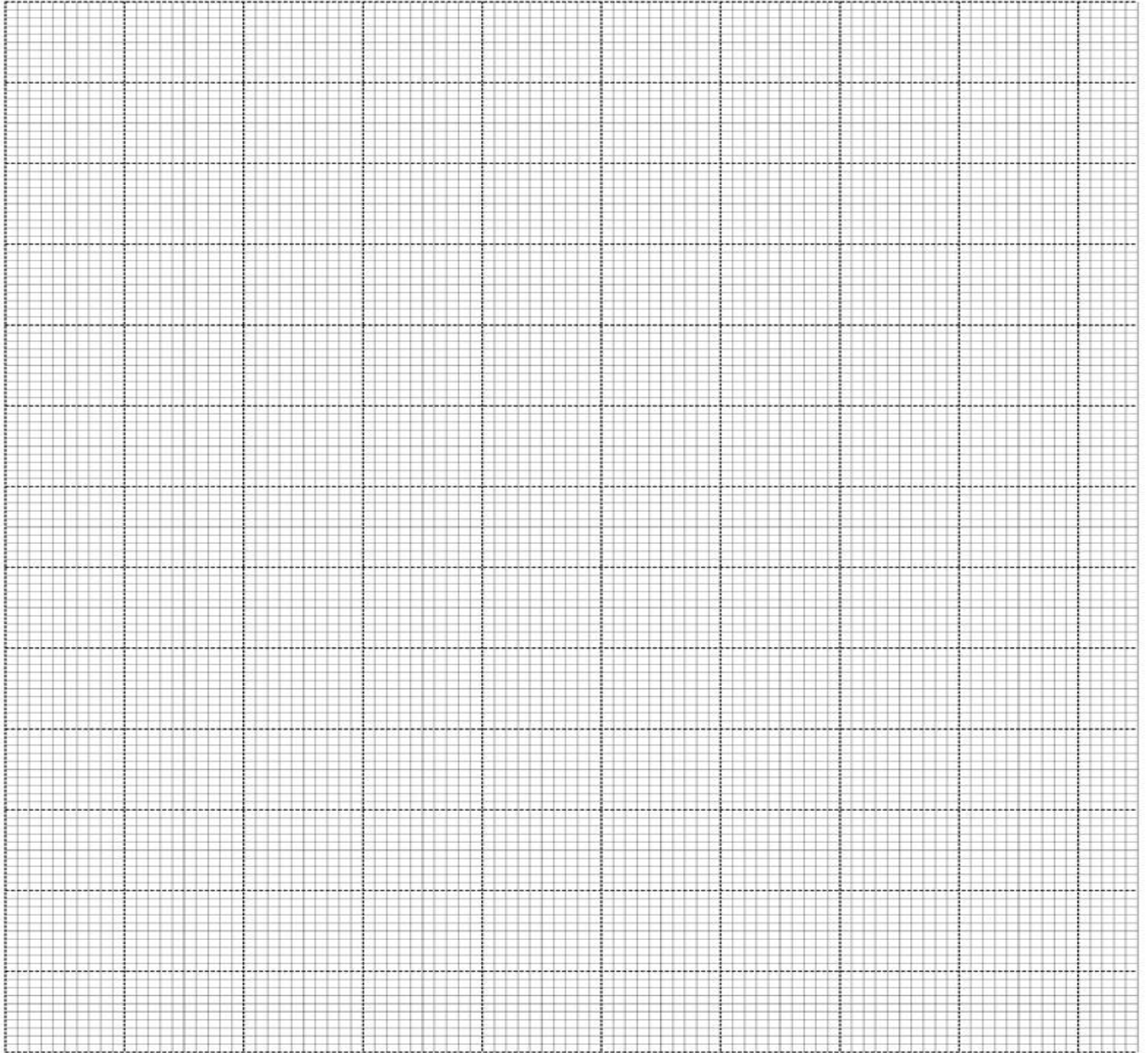
o) The percentage germination of certain seeds at different temperature was determined as follows.

Temperature (°C)	0	10	20	30	40	50
% germination	0	30	40	90	2	0

k) Using a suitable scale plot a graph of % germination against temperature.

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l) Account for % germination at

9) 0°C (2 marks)

10) 30°C (2 marks)

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.....
50°C

(1 mark)

m) What is seed viability?
marks)

(2

.....
n) State the factors that determine seed viability
marks)

(3

.....
How can seed dormancy be broken?
marks)

(3

.....
p) a) Discuss gaseous exchange in the alveolus.
marks)

(8

b) Describe the process of inhalation and exhalation in mammals.
marks)

(8

8. a) Define

i) Chemical evolution.

(2

marks)

ii) Organic evolution.

(2

marks)

b) Giving examples give and account for any five pieces of evidence for organic evolution. (16
marks)

.....
.....
.....
.....
.....

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KCSE PREMOCK SET 3

565 / 1 BUSINESS STUDIES PAPER ONE

Instructions: Answer *all* questions in the space provided.

1. State **four** factors that may lead to the success of a business. (4 marks)

2. State **four** benefits of locating a firm near the source of raw materials (4 marks)

3. Outline **four** benefits that accrue to the government as a result of privatization of a public enterprise. (4 marks)

4. Highlight **four** guidelines that the government of a country should adopt to promote efficient use of her resources. (4 marks)

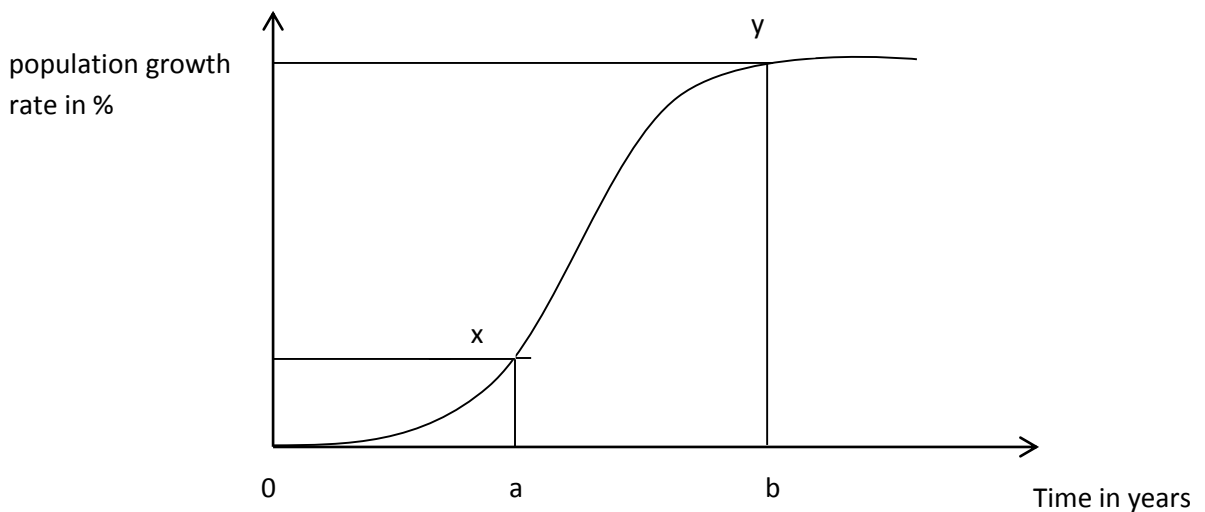
5. State **four** consequences of poor management of goods in a warehouse. (4 marks)

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6. Outline **four** measures that the government may take to control the activities of monopolies. (4 marks)
7. Outline **one** circumstance under which each of the following source documents may be issued by a trader. (4 marks)
 8. Debit note
 9. Invoice
 10. Credit note
 11. Quotation
8. Name the documents described by the statements given below as used in international trade. (3 marks)
 - rr) Request for payment before goods are delivered
 - ss) Shows ownership / title of goods imported
 - tt) Shows the transportation charges for goods
9. Give **three** business related benefits that a trader may derive from being a user of social media (facebook, whatsapp, instagram, twitter etc) (3 marks)

10. The following graph shows the rate of population growth of a given country.



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State four factors that may have contributed to the trend between **x** and **y**.(4 marks)

11. Outline **four** features of money that enables it to facilitate the exchange of goods and services. (4 marks)

12. State the office equipment used to perform the following tasks (4 marks)

Tasks	Equipment
11) Cutting unwanted documents into small pieces	
12) Puts holes into documents to aid in filing	
13) Printing addresses on the envelopes	
14) Cutting documents into required shapes and sizes	

13. State four benefits that a producer may get by transporting produce to the market by road. (4 marks)

14. The following information was extracted from the books of Mureithi traders on 30th June 2017.

Item	kshs
Purchases	720,000
Opening stock	165,000
Closing stock	?
Sales	980,600
Margin	20 %

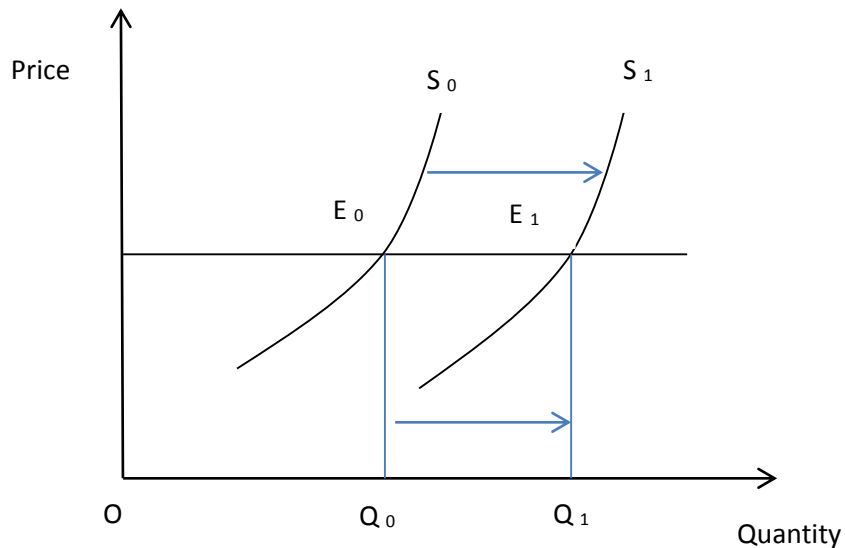
Required :

Prepare the trading account of Mureithi traders for the year ended 30th June 2017.

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15. The figure below shows a shift in the supply curve of a given commodity.



Outline four factors that may have caused the shift in supply curve from S_0 to S_1 (4 marks)

16. Highlight the procedure followed when taking an insurance policy (6 marks)

17. Outline the source document for each of the following subsidiary books (4 marks)

Subsidiary book	Source document
g) Sales journal	
h) Return inwards journal	
i) Purchases journal	
j) Return outwards journal	

18. Highlight **four** ways in which the utility / usefulness of a product can be increased. (4 marks)

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19. Mention **four** ways in which the Kenyan government is creating an enabling environment to attract investments. (4 marks)

20. The following balances were extracted from the books of Julia traders on 31st December 2017.

Fixed assets	300,000
Current assets	123,700
Creditors	84,500
5 year loan	125,000

Determine the networth of the business as at 31st December 2017. (3 marks)

21. State **four** factors that may cause inflation in an economy. (4 marks)

22. Highlight **four** characteristics of economic resources. (4 marks)

23. A firm wishes to introduce a new product into the market. Outline **four** factors that should be considered in choosing an appropriate medium for promotion. (4 marks)

24. State **four** factors that can influence the choice of a distribution channel of a particular product. (4 marks)

25. Highlight four factors that may hinder economic development in Kenya. (4 marks)

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KCSE PREMOCK SET 3

565 / 2 BUSINESS STUDIES PAPER TWO

NAME.....ADM. NO.....DATE.....

Instructions: Answer any **FIVE** questions in the space provided.

a) (a) Discuss **five** ways in which an entrepreneur contributes to the production of goods.

(b) Using a well labeled diagram, explain the circular flow of income in a two sector economy. (10 marks)

b) (a) Outline **five** differences between private limited company and public corporations. (10 marks)

(b) Explain **five** sources of government revenue used to finance development expenditure. (10 marks)

c) (a) Explain **five** advantages that an organization may get by operating an open office layout. (10 marks)

(b) The following transactions took place in Musa Traders in the month of June 2016.

June 4: Sold goods on credit to Boinett shs 12,000 and Wendy shs 15,000

June 7: Bought goods on credit from Mwaurashs 30,000

June 9: Wendy returned goods worth shs 2,000

June 12: Purchased goods on credit from John shs 20,000 and Jane shs 25,000

June 15: Goods worth shs 5,000 were returned to Mwaura and goods worth shs 2,500 were returned to Jane.

June 20: Goods sold on credit to Joyce shs 7,000 and to Mariam shs 10,000.

Required : Prepare the relevant journals. (10 marks)

d) (a) Coca-cola company limited is using prize winning competition to promote its branded sodas (soft drinks). The prizes are only won when one buys the product. Explain **five** benefits the company may get by using this method of product promotion. (10 marks)

(b) Some parts of Kenya have been experiencing low population growth rate recently. Explain **five** positive effects of having the low population growth rate.

(10 marks)

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- e) (a) With the aid of a well labeled diagram, explain the effect of an increase in the supply of a commodity while its demand remains constant. (10 marks)

(b) Gatanga enterprises had the following balances as at 30th June 2015.

Capital	20,000
Sales	240,000
Purchases	90,000
Stock (30/06/2016)	70,000
7 years bank loan	30,000
Insurance expenses	25,000
General expenses	12,000
Debtors	25,000
Creditors	75,000
Cash at bank	20,000
Cash in hand	10,000
Premises	95,000

Additional information:

The stock on (01/07/2015) was shs 160,000.

Calculate:

- uu) Mark –up (2 marks)
- vv) Rate of stock turnover (2 marks)
- ww) Return on capital employed (4 marks)
- xx) Current ratio (2 marks)
- f) (a) Discuss **five** factors that have hindered the expansion of railway transport in Kenya. (10 marks)
- (b) Over the years, Southern Star have grown into a large business enterprise. Explain **five** diseconomies of scale associated with this growth. (10 marks)

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KCSE PREMOCK SET 3

CHRISTIAN RELIGIOUS EDUCATION 313/1

1. a) Outline six literary forms used in the writing of the Bible. (6marks)
b) Give four reasons why the Bible had to be compiled into its present form by the early Christians. (8marks)
c) State ways in which the church uses the Bible to enhance Christian Faith. (6marks)
2. a) Describe how God prepared the Israelites for the making of the covenant at mountain Sinai (Exodus 19). (7marks)
b) What conditions were given to the Israelites during the renewal of the Sinai covenant?
c) Identify seven challenges that Christians face while practicing their faith in Kenya today. (7 marks)
3. a) Describe the features of the Canaanite religion. (8marks)
b) Outline seven ways in which King Jeroboam promoted the spread of Idolatry in Israel.
c) Give reasons that makes Christians to enter into Idolatry today. (5marks)
4. a) Explain four ways in which prophetic messages were written. (8marks)
b) Outline seven teachings of prophet Amos on the remnant and restoration of the Israelites. (7marks)
c) Give five reasons why Christians repent their sins. (5marks)
5. a) Describe the call of prophet Jeremiah in Jeremiah 1. (7marks)
b) What are the differences between the Sinai covenant and the new covenant prophesied by Jeremiah? (8marks)
c) What five lessons do Christians learn from prophet Jeremiah's teachings on the new covenant? (5marks)
6. a) Explain the rituals performed during marriage in the traditional African communities.
b) Give ways in which a marriage partner is chosen in Traditional African Society.
c) Outline eight factors contributing to harmony and mutual responsibility in African communities. (7marks)

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KCSE PREMOCK SET 3

CHRISTIAN RELIGIOUS EDUCATION313/2

1. a) Outline six prophecies about Jesus according to Prophet Nathan. (6marks)
b) Explain four similarities between the role of John the Baptist and that of Jesus. (8marks)
c) How do Christians emulate John the Baptist today? (6marks)
2. a) Outline Jesus teachings in the beatitudes. (6marks)
b) Describe the feeding of the five thousand (Luke 9: 10-17). (7marks)
c) What lessons do Christians learn from the miracle of the feeding of the five thousand? (7marks)
3. a) State seven teachings of Jesus on sin. (7marks)
b) Give reasons why Jesus used the parable of the lost son in His teachings. (7marks)
c) Give reasons why Christians should practice forgiveness. (6marks)
4. a) Outline Peter's explanation of Joel's prophecy during the day of Pentecost. (7marks)
b) Describe the unity of believers as illustrated in the image "the Bride", (6marks)
c) Give seven ways in which Christians prevent divisions in Kenya today. (7marks)
5. a) Outline Christian's teachings on work. (8marks)
b) State the role of professional ethics in a work place. (6marks)
c) Give six ways in which forced reduction of employees affect the Christian family in Kenya today. (6marks)
6. a) Explain Traditional African Understanding of wealth. (6marks)
b) Explain how money economy has undermined the principles of Christian living. (7marks)
c) Give seven reasons why Christians should not involve themselves in gambling. (7marks)

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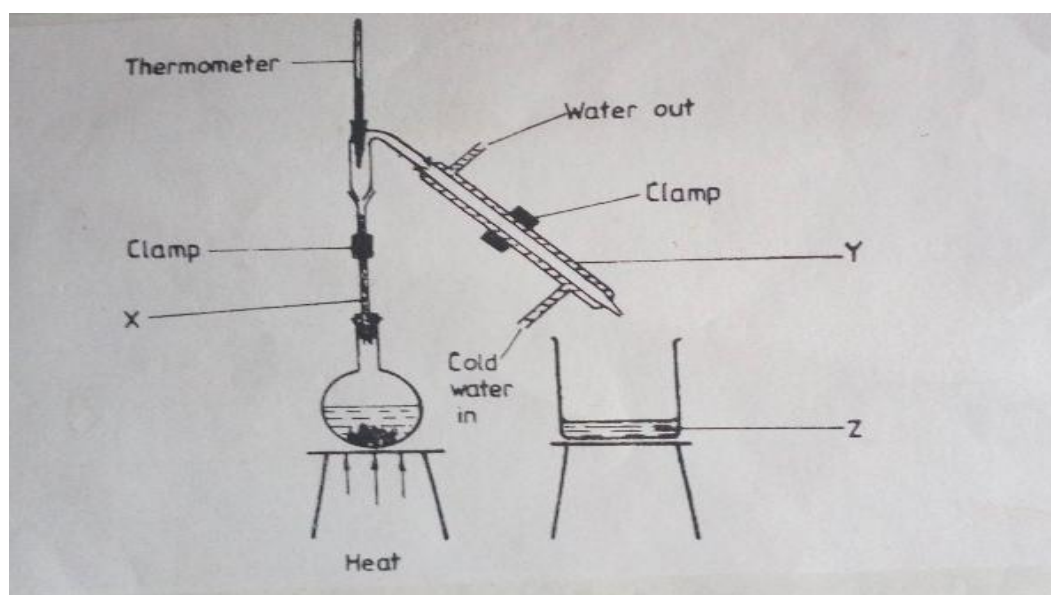
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KCSE PREMOCK SET 3

CHEM Paper 1

FORM IV CHEMISTRY PP1. 233/1

1. The diagram below shows the set-up of apparatus used to separate methanol (boiling point 65°C) and water (boiling point 100°C)



Identify:- a) apparatus X -----(1mk)

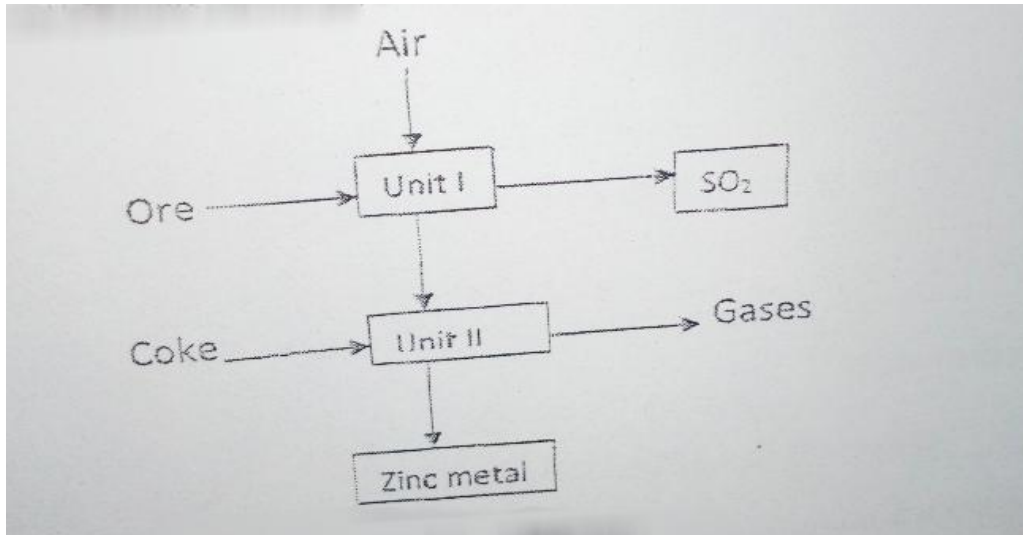
b) apparatus Y -----(1mk)

c) Liquid Z -----(1mk)

2. The flow chart below shows some processes involved in the industrial extraction of zinc metal.

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a) Name one ore from which zinc is extracted (1mk)

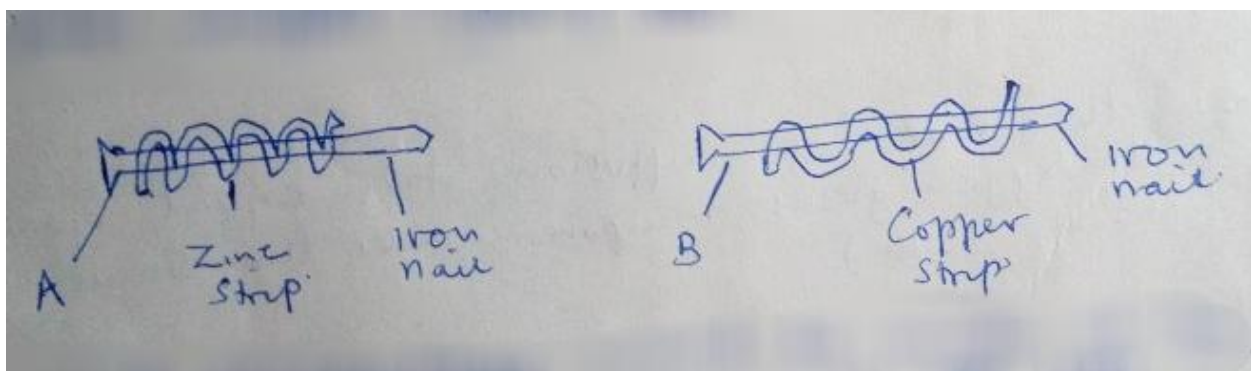
b) Write the equation for the reaction taking place in unit II (1mk)

c) Name two uses of zinc metal.(1mk)

i)

ii)

3. The diagrams below represent two iron nails with some parts wrapped tightly with zinc and copper strips, respectively.



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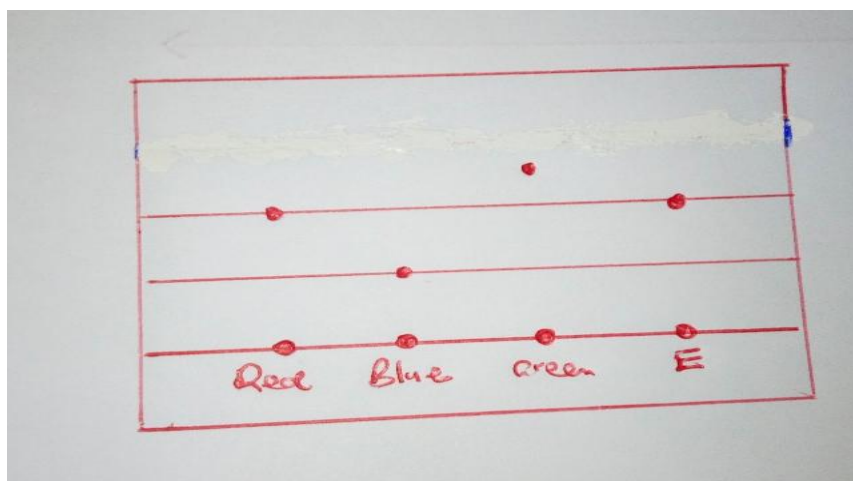
What observations would be made at the exposed points A and B if the wrapped nails are left in the open for several months? Explain. (3mks)

Observation at A –

Explanation:-

Observation at B:-

4. The diagram below shows chromatogram for three dyes.



a) Which pure dye is not present in the mixture E? (1mk)

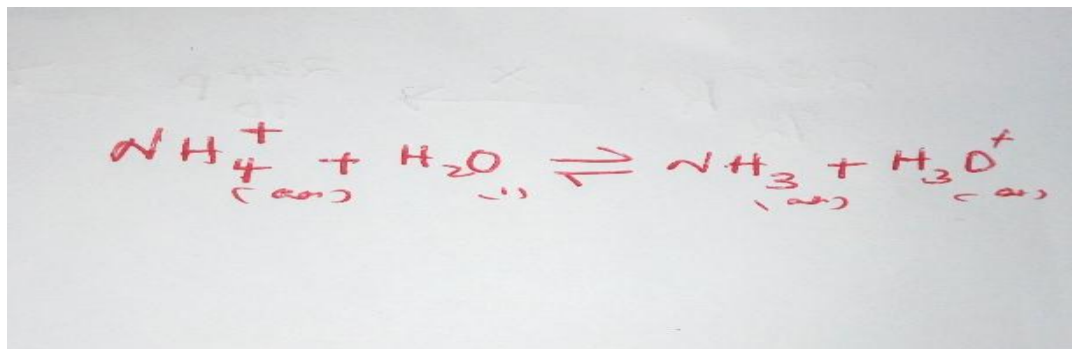
b) Which of the three pure dyes is the least sticky. Give a reason. (1mk)

c) Show on the diagram, the solvent front. (1mk)

5. In the equation below, identify the reactant that acts as an acid. Explain (2mks)

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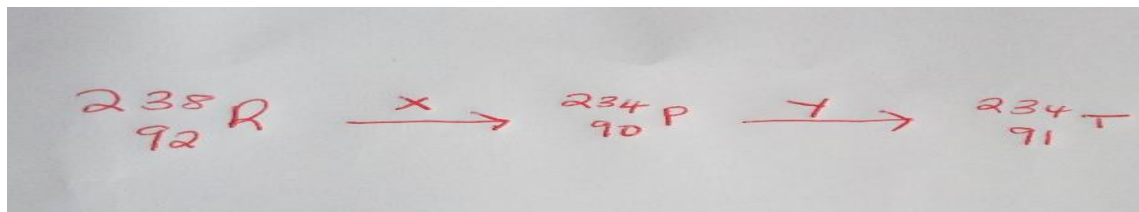


6. A compound $\text{C}_4\text{H}_{10}\text{O}$, is oxidized by excess acidified potassium permanganate to form another compound, $\text{C}_4\text{H}_8\text{O}_2$. The same compound $\text{C}_4\text{H}_{10}\text{O}$ reacts with potassium to produce hydrogen gas.

a) Draw the structural formula and name compound $\text{C}_4\text{H}_{10}\text{O}$. (1mk)

b) Write an equation for the reaction between potassium and compound $\text{C}_4\text{H}_{10}\text{O}$. (1mk)

7. Element R – 238 decays in series forming different nuclides as shown below:-



a) Identify the type of decay.(2mks)

X ----- Y -----

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b) Give one use of radioactive isotopes. (1mk)

8. Explain how the rates of diffusion for equal quantities of nitrogen and oxygen gases compare under the same conditions. (N=14, O=16) (2mks)

9. When 34.8g of hydrated sodium carbonate ($\text{Na}_2\text{CO}_3 \times \text{H}_2\text{O}$) were heated to a constant mass, 15.9g of anhydrous sodium carbonate were obtained. Calculate the value of X in the hydrated carbonate. (Na=23, O=16, C=12, H=1) (3mks)

10. During purification of copper by electrolysis 1.48g of copper were deposited when a current was passed through copper (II) sulphate solution for 2 ½ hours. Calculate the amount of current that was passed. (Cu = 63.5, F = 96500C) (3mks)

11. Sample solutions of salts were labelled as I, II, III and IV. The actual solutions, not in that order, are lead nitrate, zinc sulphate, potassium chloride and calcium chloride.

a) When aqueous sodium carbonate was added to each sample separately, a white precipitate was formed in I, III and IV only. Identify solution II. (1mk)

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b) When excess aqueous sodium hydroxide was added to each sample separately, a white precipitate was formed in III only. Identify solution III. (1mk)

c) When dilute sulphuric (VI) acid was added separately to each sample, a white precipitate was formed in solutions I and III only. Identify solution I (1mk)

12. Study the table below and answer the questions that follow:-

Alkane	Formula	Heat of combustion (ΔH_c) KJ Mol^{-1}
Methane	CH ₄	-890
Ethane	C ₂ H ₆	-1560
Propane	C ₃ H ₈	-2220
Butane	C ₄ H ₁₀	

a) Predict the heat of combustion of butane and write it on the space provided in the table above. (1mk)

b) What does the sign of ΔH_c value indicate about combustion of alkanes? (1mk)

13. a) What are isotopes. (1mk)

b) Element X(not actual symbol of the element) has two isotopes with mass no.s 6 & 7. If the relative atomic mass of x is 6.94, determine the % abundance of each isotope. (2mks)

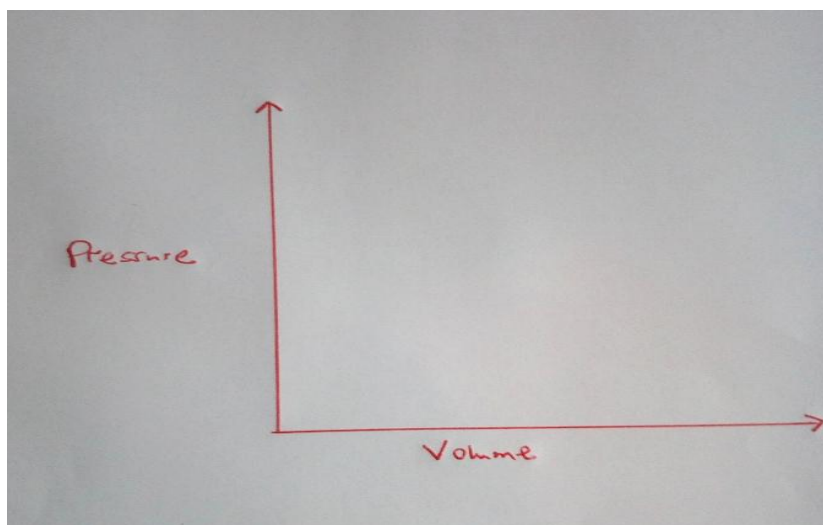
14. Complete the table below:- (1mk)

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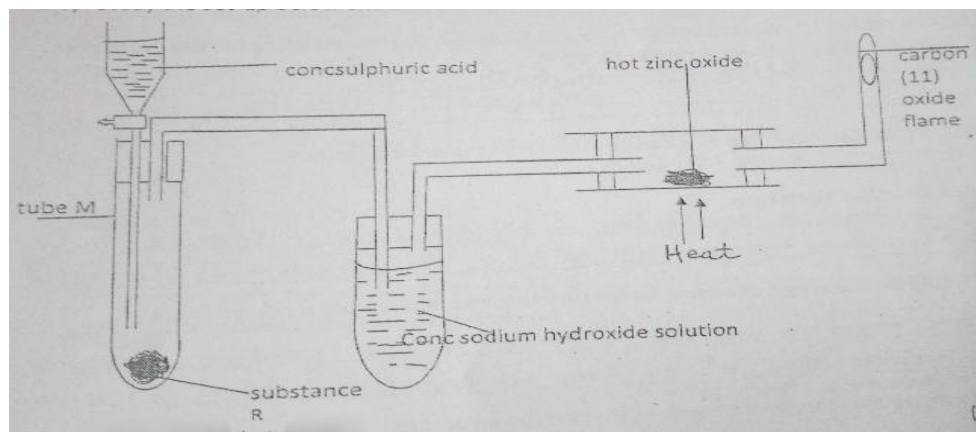
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Isotope	Number of		
	Protons	Neutrons	Electrons
$^{59}_{27}\text{Co}$			

15. On the axis below, sketch a graph to show how pressure varies with volume for fixed mass of an ideal gas at constant temperature. (2mks)



16. Study the set-up below and use it to answer the questions that follow:-



a) Identify R -----(1mk)

b) State the function of concentrated Sodium hydroxide solution. (1mk)

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c) State the property of carbon (II)oxide gas demonstrated in the above set-up.
(1mk)

17. a) Both chlorine and iodine are halogens.

a) What are halogens? (1mk)

b) In terms of structure and bonding, explain why boiling point of chlorine is lower than that of Iodine. (2mks)

18. Describe how the following reagents can be used to prepare lead sulphate.
(2mks)

- Solid potassium sulphate

- Solid lead carbonate

- Dilute nitric acid

- Distilled water

19. Identify the particles which enable the following substances to conduct electricity.

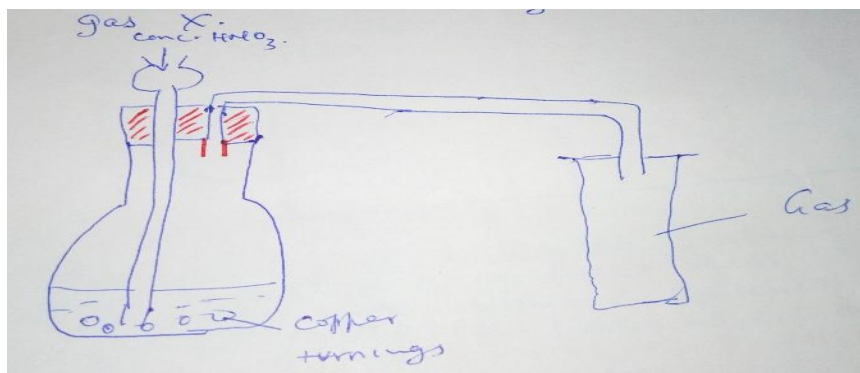
i) Magnesium metal (1mk)

ii) Molten lead (II) bromide (1mk)

20. Below is an arrangement which was used to prepare gas X.

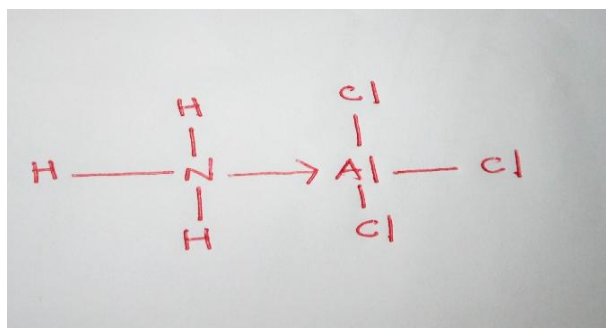
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- i) Which one property of gas X can you tell from the method of preparation?
(1mk) -----
- ii) Identify gas X -----(1mk)
- iii) Why is lead (II) nitrate more suitable than other nitrates for the preparation of gas X. (1mk)

21. The diagrams below shows the bonding between aluminium chloride and ammonia.



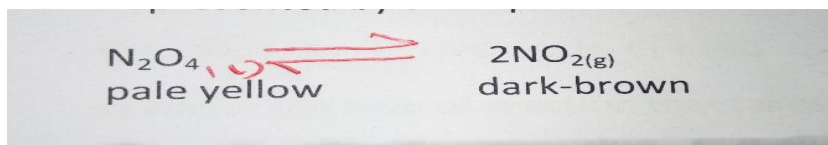
- a) Name the types of bonds that exist in the molecule. (1mk)
- b) How many electrons are used for bonding in the molecule?(1mk)

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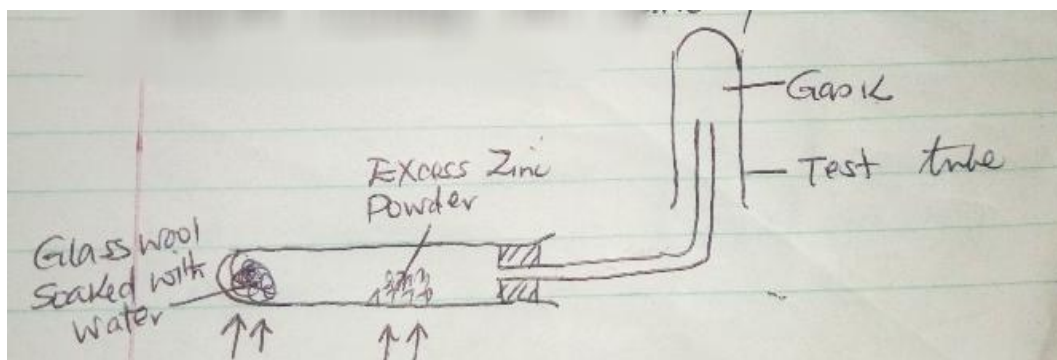
22. 100cm^3 of methane gas diffused through a porous partition in 40 seconds. How long would it take 90cm^3 of ozone gas to diffuse through the same partition? (C=12, H=1, O=16) (3mks)

23. The equilibrium between nitrogen (IV) oxide and dinitrogen tetraoxide is represented by the equation



Given that the decomposition of dinitrogen tetraoxide is endothermic, what observation would be made if the equilibrium mixture was heated. Explain. (2mks)

24. A student set-up the experiment below to collect gas K. the glass wool was heated before heating the zinc powder.



Why was it necessary to heat the moist glass wool before heating zinc powder?

b) What would happen if zinc powder was heated before heating the glass wool?

c) What property of gas K makes it possible for it to be collected in the diagram? (1mk)

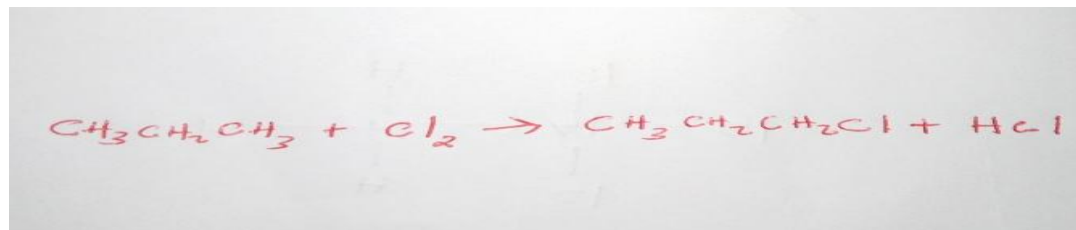
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25.a) Name a substance that reacts with water to give oxygen gas. (1mk)

b) Write an equation for the reaction. (1mk)

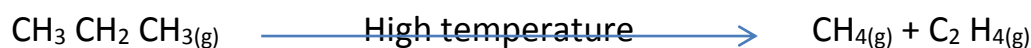
Q26. Propane and chlorine react as shown below:



a) Name the type of reaction that takes place. (1mk)

b) State the condition under which this reaction takes place. (1mk)

c) Propane can be changed into methane and ethane as shown in the equation below:-



Name the process undergone by propane. (1mk)

27. The pH of a sample of soil was found to be 5.0. An agricultural officer recommended the addition of calcium oxide in the soil. State two functions of the calcium oxide in the soil. (2mks)

28. The table below gives the atomic numbers of elements W, X, Y and Z. the letters do not represent the actual symbols of the elements.

Element	W	X	Y	Z
---------	---	---	---	---

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Atomic Number				
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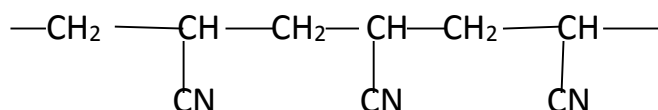
a) Which one of the elements is least reactive? Explain? (1mk)

b)(i) Which two elements would react most vigorously with each other? (1mk)

(ii) Give the formula of the compound formed when the elements in (b(i) above react.----- (1mk)

29. Explain the changes that occur when sulphur is heated until it reaches its boiling point. (3mks)

30. A polymer has the following structure.



A sample of this polymer is found to have a molecular mass of 5194. Determine the number of monomers in the polymer . (H=1.0, C = 12.0, N = 14.0) (3mks)

31. What is the oxidation number of:-

a) sulphur in $\text{S}_2\text{O}_3^{2-}$ (1mk)

b) Explain why hydrogen forms compounds in which its oxidation state is either +1 or -1. (Atomic number of hydrogen is 1) (2mks)

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KCSE PREMOCK SET 3

CHEMISTRY MOCK PP2

Q1. (i) The grid below shows part of the periodic table. Study it and answer the questions that follow. The letters do not represent the actual symbols of the elements.

J							J	
						A		
	B		C		D		E	
F	G							
							H	

- a) Which element forms ions with charge of -2? Explain. (1mk)
- b) What is the nature of the oxide formed by C? (1mk)

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c) How does the reactivity of H compare with that of E? Explain. (2mks)

d) Write a balanced equation for the reaction between B and Chlorine. (1mk)

e) Explain how atomic radii of the following compare.

(i) F and G (1 ½ mks)

(ii) B and G (1 ½ mks)

f) If the oxide of B and D are separately dissolved in water, what effects with their aqueous solutions have on litmus? (1mk)

g) Element J can be placed on the two positions shown in the grid. Explain this:- (2mks)

Q2.a)(i) Give the IUPAC name of:-



ii) Write a chemical equation of the reaction between the substance in a(i) above and hydrogen chloride. Give the structure and name of the product.

Equation:-

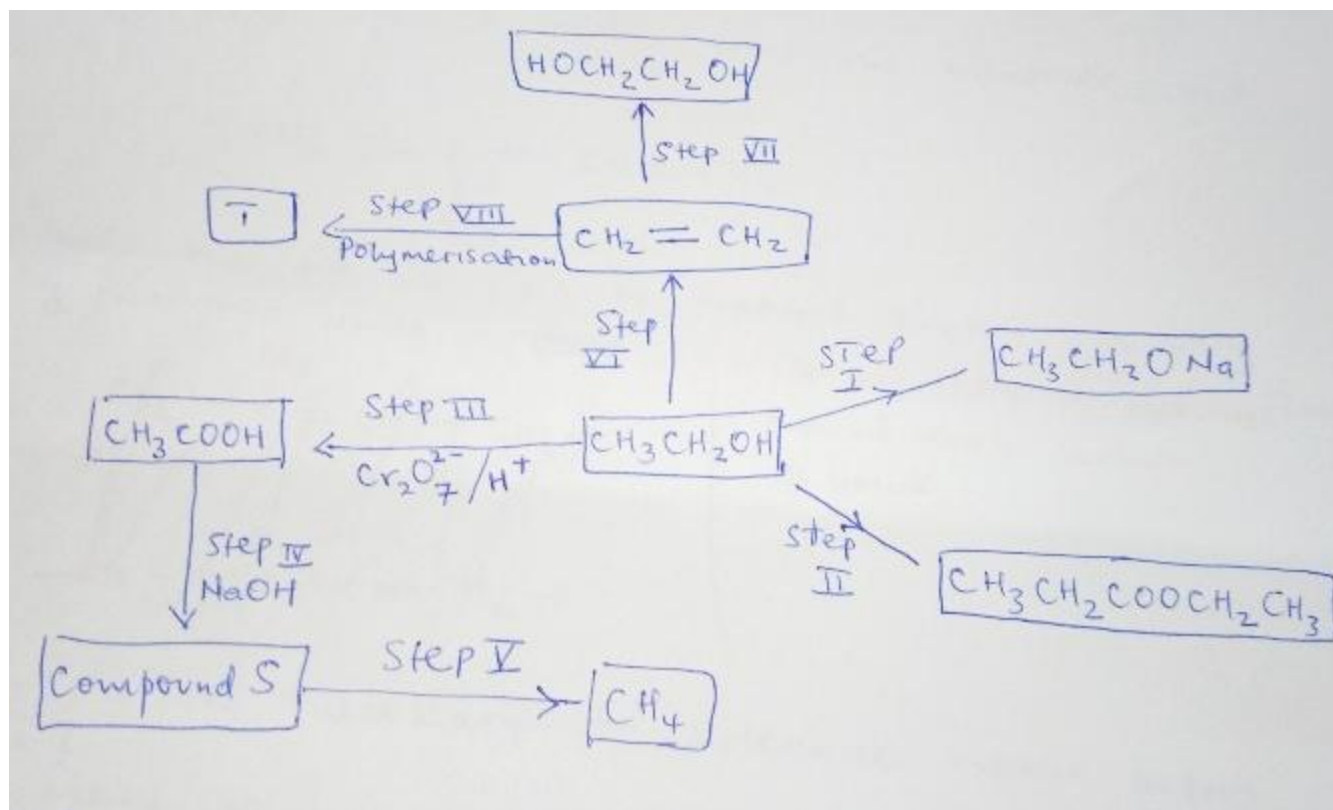
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Structure of the product –

Name of the product –

b) Study the reaction scheme below and answer the questions that follow:-



i) Name compound:- (1mk)

S –

T –

ii) State the conditions/reagents necessary for the process to take place in:- (4mks)

Step I –

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Step II –

Step VI –

Step V –

iii) Write an equation for the formation of compound S. (1mk)

iv) Give one advantage of use of compound T over natural polymer. (1mk)

v(i) What is a thermosetting plastic? (1mk)

ii) Natural rubber is made from the monomer unit isoprene.

Draw the polymer unit of natural rubber showing 2 monomer units. (1mk)

iii) Why is it necessary to vulcanise rubber before use? (1mk)

Q3. In an experiment to determine the heat of precipitation of silver chloride, 25cm³ of 2M silver nitrate was added to 25cm³ of 2M sodium chloride in a plastic beaker. The mixture was stirred gently and its steady temperature noted. Use the data below to answer the questions that follow:-

Average original temperature of solutions = 25.0°

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Steady temperature of the mixture = 34.0°C

Density of the mixture = $1.0\text{g}/\text{cm}^3$

Specific heat capacity for the mixture = $4.2\text{kJ}/\text{kg}/^{\circ}\text{C}$

a)(i) Why was a plastic beaker preferred in this experiment. (1mk)

(ii) What could have been done to the plastic beaker to increase the accuracy of the results in this experiment? (1mk)

b)(i) Calculate the heat change that occurs in this experiment. (1mk)

(ii) Write the equation for the reaction that occurs. (1mk)

(iii) Calculate the number of moles of silver chloride precipitated. (1mk)

iv) Calculate the molar enthalpy of precipitation of silver chloride. (1mk)

v) Write a thermal ionic equation for the reaction. (1mk)

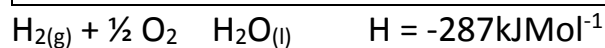
c) Study the thermal chemical equation for the formation of water and the bond energies below and answer the questions that follow:-

Bond	Bond Energies (kJ Mol^{-1})
------	--

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O = O	496
H – H	435
H - O	



i) Draw an energy level diagram for the reaction. (1mk)

ii) Calculate the bond energy for the bond between H and O in a water molecule and use the results to complete the table above. (2mks)

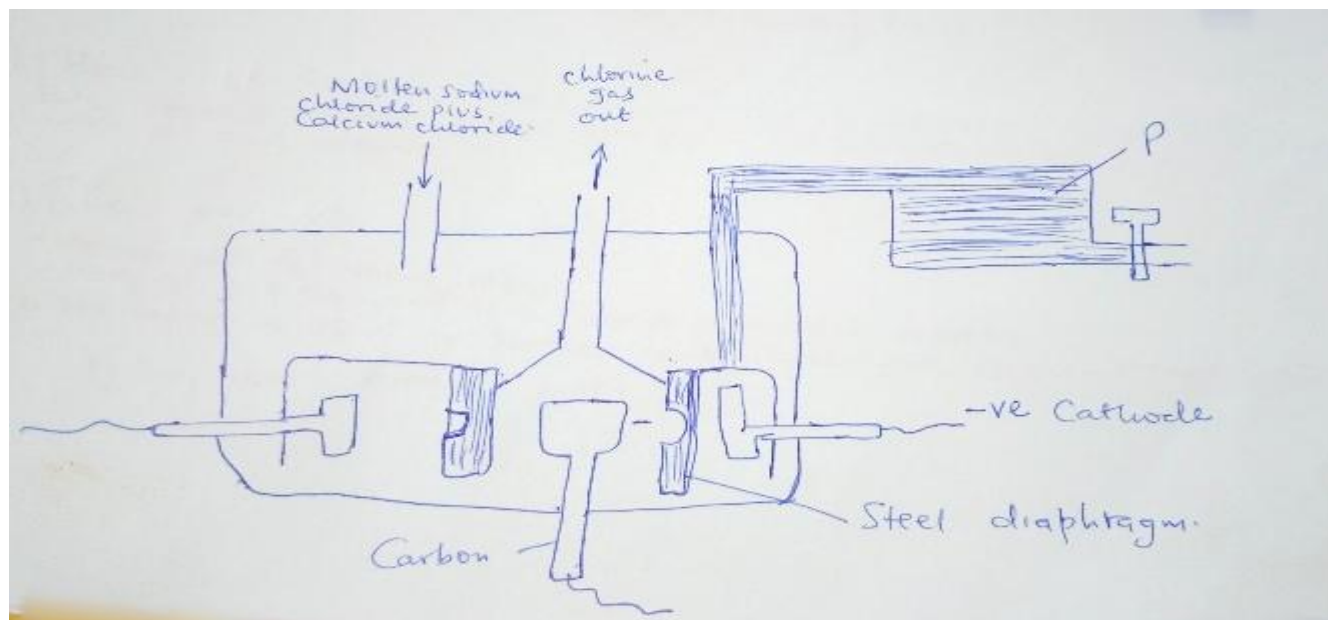
d)(i) Calculate the heating value of hexane C_6H_{14} given that its heat of combustion is 4128kJmol^{-1} . (C=12.0, H=1.0) (2mks)

(ii) Give a factor which one needs to consider when choosing a fuel apart from its heating value. (1mk)

4. Below is a Down's cell used in the extraction of sodium metal.

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yy) What is the purpose of calcium chloride. (1mk)

zz) Write the equation that occurs at the:- (2mks)

s) Anode –

t) Cathode –

aaa) What is the function of steel diaphragm? (½ mk)

bbb) Name substance P(½ mk)

ccc) Iron is extracted by heating its ore with coke. Explain why it is not possible to use this method for extraction of sodium. (2mks)

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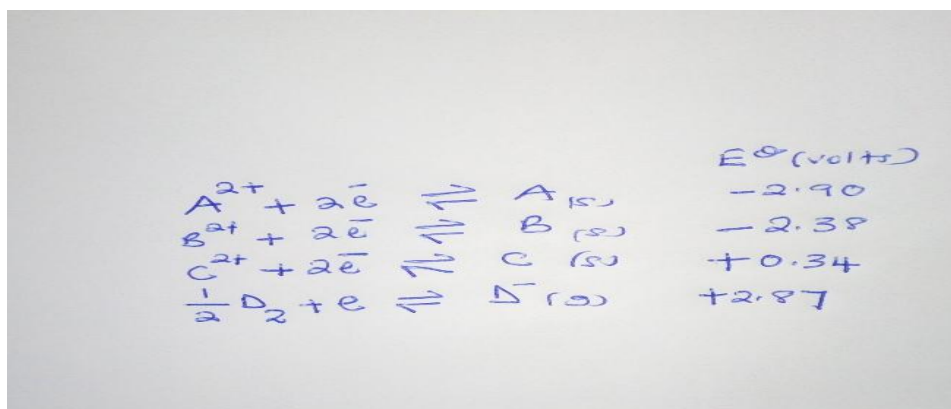
ddd) State two observations made when a grain of sodium metal is placed in water. (1mk)

eee) Explain why it is advisable to use a pair of tongs when holding sodium. (1mk)

fff) How is sodium stored in the laboratory. Explain. (1 ½ mks)

ggg) Give one use of sodium. (½ mk)

5. Use the standard electrode potentials given below to answer the questions that follow:-



A handwritten table listing four half-reactions and their standard electrode potentials (E° in volts). The reactions are: A²⁺ + 2e⁻ ⇌ A(s) with E° = -2.90; B²⁺ + 2e⁻ ⇌ B(s) with E° = -2.38; C²⁺ + 2e⁻ ⇌ C(s) with E° = +0.34; and ½ D₂ + e⁻ ⇌ D⁻(s) with E° = +2.87.

	E^\ominus (volts)
$A^{2+} + 2e^- \rightleftharpoons A(s)$	-2.90
$B^{2+} + 2e^- \rightleftharpoons B(s)$	-2.38
$C^{2+} + 2e^- \rightleftharpoons C(s)$	+0.34
$\frac{1}{2}D_2 + e^- \rightleftharpoons D^-(s)$	+2.87

i) Identify the strongest reducing agent. Explain. (2mks)

ii) In the space provided. Draw a well labeled diagram of a conventional electrochemical cell that would be obtained when the two half cells B_(s)/B²⁺_(aq) and C_(s)/C²⁺_(aq) are combined. (2mks)

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iii) Write the cell representation of the cell and then calculate the over e.m.f of the cell. (2mks)

iv) A molten liquid containing the ions of metals B and C was electrolyzed using inert electrodes. Write an equation for the reaction that occurs at the cathode. (1mk)

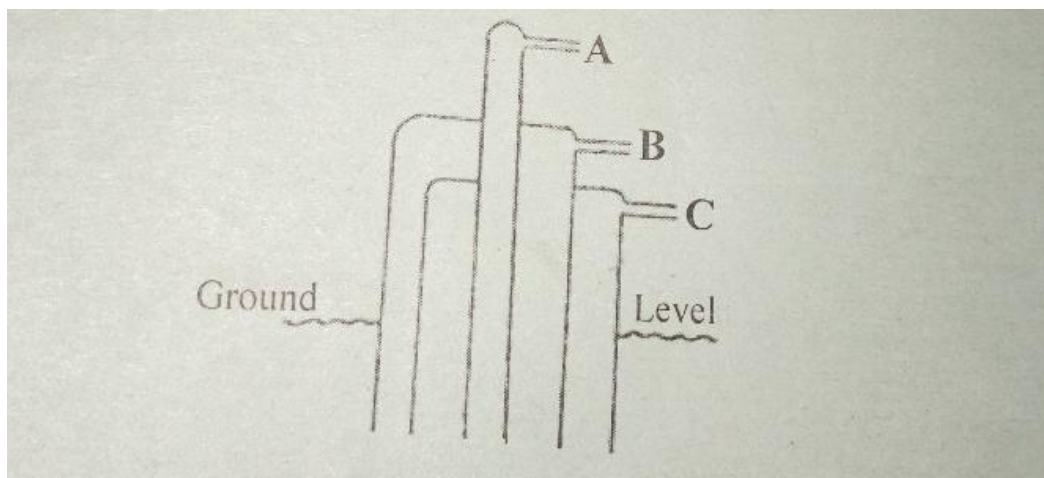
b)(i) 10.26g of aluminium sulphate were dissolved in water to make 200cm³ of solution. Calculate the molar concentration of the sulphate ions in the solution. (Al = 27, S = 32, O = 16) (3mks)

(ii) When barium chloride was added to the solution formed above to react fully a white precipitate was formed. Calculate the mass of the white precipitate formed. (Ba = 137, S = 32, O = 16). (2mks)

6. The diagram below represents the extraction of sulphur by the frasch process.

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i) Identify and state the use of the substance that pass through A and C. (2mks)

A –

C –

ii) Rhombic and monoclinic are allotropes of sulphur. They are interconvertible as shown below:-

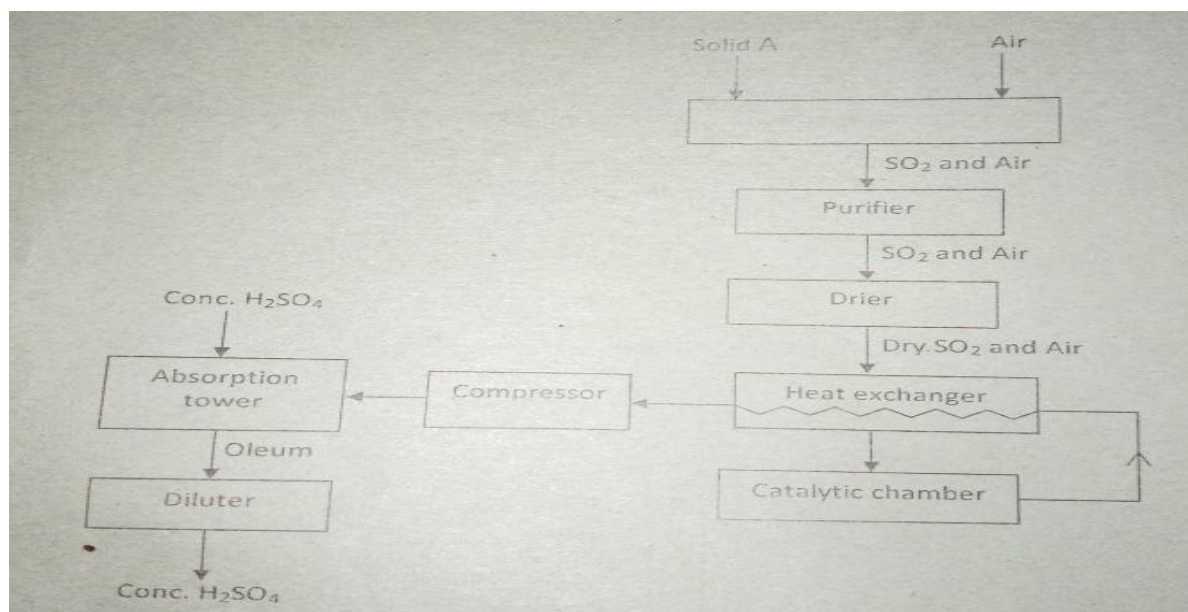
i) What does the temp. 96°C represent.

ii) State the difference in crystalline appearance between rhombic and monoclinic crystals. (1mk)

b) The following scheme represents the steps followed in the contact process. Study it and answer the questions that follow:-

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i) Name the possible identities of solid A. (1mk)

ii) Name one impurity removed by the purifier. (1mk)

iii) Why is it necessary to remove impurities. (1mk)

iv) Name the catalyst which is preferred in this process and why? (2mks)

v) Explain an environmental effect of sulphure (IV) oxide in the atmosphere. (2mks)

7. a) What is meant by saturated solution. (1mk)

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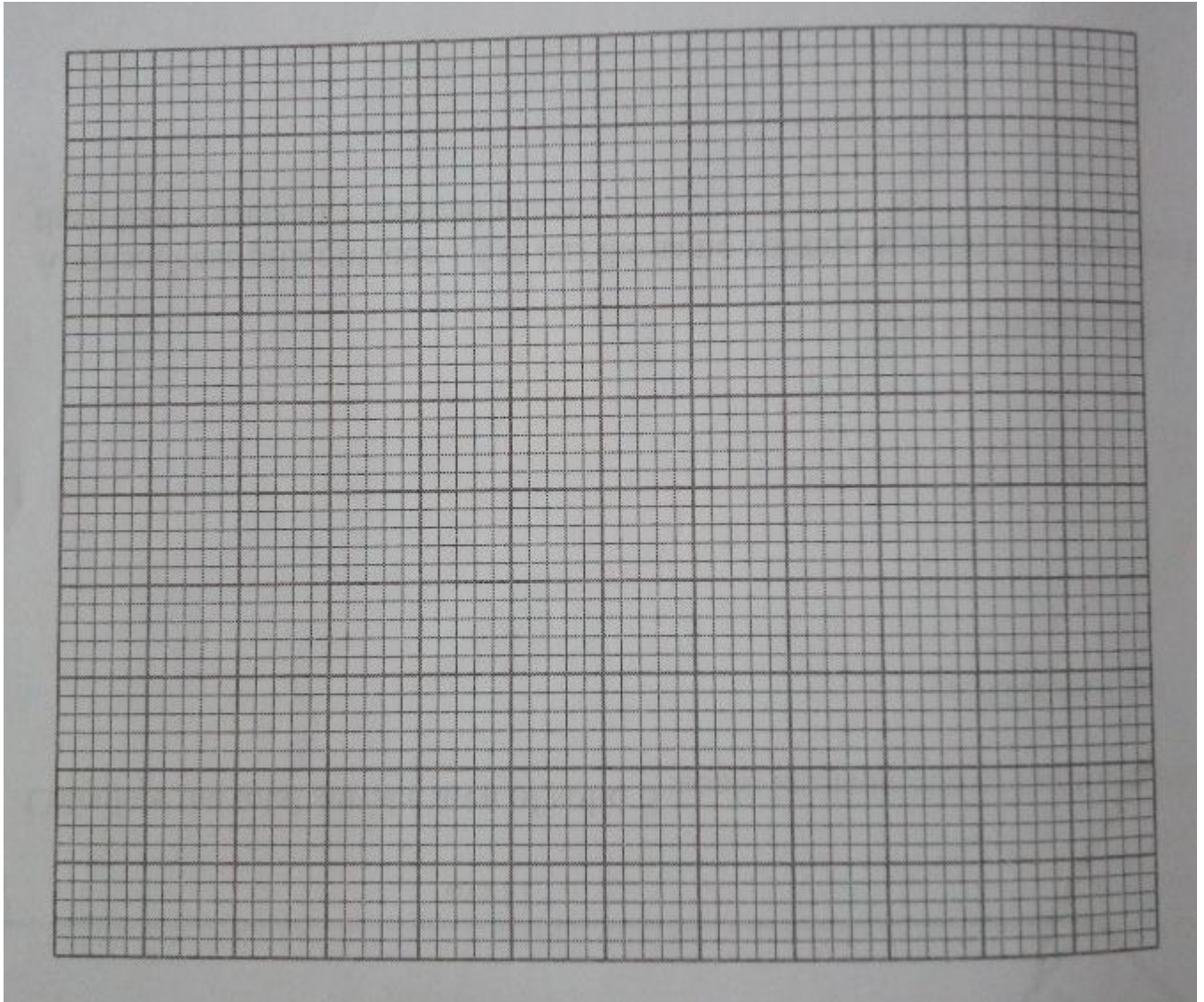
b) The solubilities in grams of sodium nitrate in 100g of water are given for various temperatures in °C.

Temperatures °C	0	10	20	30	40	50	60	80	90	100
Solubilityg/100g of water	73	80	88	96	104	114	124	148	162	180

i) Draw on graph paper the solubility curve for sodium nitrate. (3mks)

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ii) From the graph evaluate the solubility at 70°C (1mk)

iii) 100g of a solution of sodium nitrate is in the saturated condition at 10°C . How many grams of the salt would have to be added to make the solution just saturated at 80°C . (3mks)

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KCSE PREMOCK SET 3

451/1

COMPUTER STUDIES

PAPER 1

SECTION A

1. Define the following terms as used in word processing. (3 marks)

a) word wrap

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.....

b) Justification

.....
.....

c) Drop cap

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.....

2. State three advantages of using computers in performing day to day's tasks. (3marks)

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.....

3. Wanja operates a bookshop in a town. Lately he is finding the task of managing daily transactions manually overwhelming.

h) Identify the type of management information system that Wanja should acquire (2 marks)

.....
.....

i) State two benefits that Wanja will gain from using such a system (2 marks)

.....
.....

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4. State three hardware considerations that need made before installing an operating system

(3marks)

.....
.....

5. Before the end of every month an electricity service provider sends out field officers to take consumer meter readings. The data collected by the officers is then keyed into the computer. The system then generates utility bills which are printed and sent to the consumers.

d) State two transcription errors that are likely to occur during meter reading or input (2 marks)

.....
.....

e) State two ways such errors can be avoided (1 mark)

.....
.....

6. State three editing tools that are available in most standard word processing software (3 marks)

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.....

7. Information security should be enforced both physically and logically.

k) Differentiate between the two security mechanisms (2 marks)

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.....

l) State two physical security techniques (2 marks)

.....
.....

8. Explain three types of system buses found on the computer system board (3 marks)

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9. Explain three types of system buses found on the computer system board (3 marks)

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.....

10. Highlight the dangers associated with the following:

i. Exposing computers to high humidity (1marks)

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.....

ii. Purchasing software before assessing requirements (1marks)

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.....

iii. Using foreign flash disks on the computer. (1marks)

.....
.....

11. Differentiate between a filter and a query in a database (1 marks)

.....
.....

12. The payroll system is both a financial system and a human resources system. Explain this statement. (2marks)

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13. Explain the importance of the following spreadsheet operations.

a) Freezing columns (1mark)

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b) Data validation (1 mark)

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14. List two ways in which computer technology can be used in law enforcement (1 marks)

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.....

15. In reference to aviation technology, state two advantages of using simulation in training pilots (2mks)

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SECTION B (60 MARKS)

Answer question 16(compulsory) and any other THREE questions from this section.

16. (a) State the stage of program development in which:

(i) A flowchart would be drawn

.....

(ii)The programmer would check whether the program does as required

.....

(iii) The user guide would be written

.....

(iv) The requirements specifications would be written

.....

b). A programmer uses program design tools to design a program that can list the odd numbers between

0 and 100.

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b). (i). Write a pseudo code for this problem. (5mks)

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.....

ii). Draw a flow chart for the pseudo code in 16 b) (i) above. (6mks)

q) (i)State one difference between system and program flowchart. (2 marks)

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.....

(ii) Study the follow flowchart then answer the questions that flow.

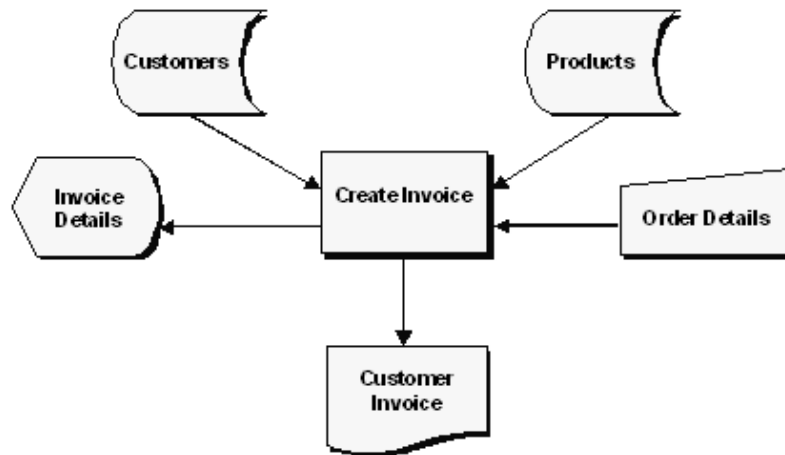


Figure 1 Flowchart2

l) Identify the type of flowchart that is represented by the flowchart in figure2

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.....
II) Name all the flowchart symbols used in this flowchart.

17. (a) Define the term network topology . Network topology can be viewed in two ways . Name and Explain the **two** ways. (5mks)

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(iii) Explain **two** factors you would consider before enrolling for an ICT course in a College. (2mks)

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(c). Outline the seven open systems interconnection (OSI) reference model Layers in their order in network. (4 mks)

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o) Differentiate the function SUM and SUMIF as used in spreadsheet. 2mks

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(e) State **two** advantages of using fiber optic cables. (2mks)

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18. A systems analyst has been asked by a doctor to computerize the records she keeps about her patients. He must first of all collect information about the existing system.

a). Describe **four** methods he could use to collect this information. 4mks

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.....

r) Once the whole system has been designed it will need to be implemented.

(i) Describe **two** methods of implementation that could be used. 2mks

Described Any two from:

.....
.....
.....

(ii) Write down **two** reasons why one of the methods you gave in (b) (i) is better than the other.

.....
.....
.....

s) After a system is implemented, it is evaluated. Give **two** reasons why a system should be evaluated.

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Any two from:

(2mks)

t) State one difference between system flowchart and program flowchart. **(2 marks)**

19. (a) Describe each of the following data processing methods and give an example of Where they are used.
(6mks)

Online processing

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Batch processing –

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Real-time –

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(b) differentiate between the following: **(6mks)**

(i) Logical file and physical file –

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.....
.....

ii). Master file and back-up file –

.....
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.....
.....
(iii) Random and indexed sequential file organization methods.

.....
.....
(c) An organization is facing threats to data integrity. Explain **three** ways how the threats can be minimized

.....
.....
20. (a) Give **one** reason why data and information in a computer system needs to be converted to other number systems other than binary. (1mks)

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.....
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.....
(b) Explain **one** reason for use of binary in digital technology. (1mks)

.....
.....
(c) ii). Using twos complement, workout : $15_{10} - 8_{10}$ in binary form. **(4mks)**

(d) Using BCD coding system convert 796 to binary. (3mks)

(e) Differentiate Database administrator and web administrator. (2mks)

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- (f) (i) Define the term accreditation as used in education.

KCSE PREMOCK SET 3

COMPUTER STUDIES

PAPER 2

(PRACTICAL)

Question one

A school keeps its students details in a computer database. The information below contains details obtained from two tables of database. Study the tables and answer the following questions.

DETAILS

NAMES	KCPE MARKS	ADMNO	Year Of KCPE	DORMITORY
Tom Jose	250	2030	2011	Ruvuma
Okoth Rao	356	2031	2012	Zaire
Ken Otieno	412	2032	2012	Tana
Dan Muoso	205	2033	2011	Ruvuma
Adan Hassan	400	2034	2010	Zaire
Ahmed Kubasu	185	2035	2011	Tana
Mutai Jemo	289	2036	2012	Ruvuma
Mutua Sarafi	300	2037	2012	Zaire
Muesh Linda	426	2038	2011	Tana
Viena Oscar	405	2039	2010	Zaire
Violet Kadija	336	2040	2012	Tana

PERFORMANCE

ADMNO	ENGLISH	MATHS	KISWAHILI	COMPUTER
2030	59	48	56	83
2031	56	36	48	76
2032	29	25	59	80
2033	88	79	65	67
2034	70	29	62	91
2035	39	46	24	68
2036	82	78	18	84
2037	54	75	19	46
2038	69	54	46	87
2039	53	96	75	24

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2040	74	20	49	50
------	----	----	----	----

12. Create a new database called STUDENTS.
(2marks)
13. Design two tables: DETAILS and PERFORMANCE with the following **properties** in their fields:
Validate the ADMNO entry to exactly four characters, three characters for KCPE MARKS and DORMITORY names each to start with capital letter.
(4marks)
- c) Using appropriate **primary and foreign keys** create a relationship between the two tables and enforce referential integrity.
(4 marks)
- d) Create and use forms to enter data into tables.
(12 marks)
- e) Create a query that would extract students whose name starts with letter “A” and save it as “Names”
(4marks)
- f) Create a query that would display *ADMNO, NAME, ENGLISH, MATHS, KISWAHILI and COMPUTER* and calculate the totals of the four subjects, sort the totals in descending order. Save it as “**MARKS**”
(4marks)
- g) Create a query that would display **only** those students who sat their KCPE in **2012** and reside in **Tana dormitory**, save the query as “**Tanas**”
(3marks)
- h) Using the performance table, compute the *average* for **ENGLISH** field, *standard deviation* for **MATHS** field and *Variance* for **KISWAHILI** field to be displayed on the same table.
(3marks)
- (i) Create a form to display all fields of details table with the following:
(7marks)
- u) Layout:-tabular
 - v) Style:-opulent
 - w) Title:-**Dform**
 - x) Add two *form controls* to “print” and “close” the form.
- j) Create a report with the title “**Excellent**” using the query “**MARKS**” above.
(2marks)
- k) Print:
hhh) **Dform** in portrait while the query “**MARKS**” in landscape
(2marks)

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iii) Performance table

(2marks)

jjj) Report excellent

(1mark)

Question 2

Design a publication to appear exactly as shown in the next page using the following instructions.

(20marks)

- a) (i) Launch the DPT package and set measurements to centimeters and the margins 2cm all round
- (ii) Paper size A4 portrait.
- b) Save your work as “**Modern computers**”
(2marks)
- c) The heading “Introduction to computers The Basics” to have the following styles.
(5marks)
 - f) Centered across the page
 - g) Font face
 - h) Font size: 18
 - i) Background Texture: Granite
 - j) Format the drop cap in the first line as it appears
- d) The heading “Hardware” in the publication to have the styles.
(5marks)
 - m) Font face: Arial Narrow
 - n) Font size: 16
 - o) Text weight: Bold
 - p) Character spacing: 180%
 - q) Alignment: Centered
- e) The text under the heading “Hardware” to be in two columns and having the following styles.
(3marks)
 - j) Font size: 12
 - k) **Dashed outline** on the first column
 - l) First character of the **first column** to be dropped by 4 **lines** as shown.
- f) Insert the banner bearing the text **auxiliary** as it appears.
(3marks)
- g) - Enter the text below the banner in three columns as shown
(4marks)

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walimuepublishers@gmail.com

- Insert lines between the three columns
(3marks)
 - Type and format the text below the three columns exactly as it appears
(3marks)
- h) Print the publication.
(2marks)

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Introduction to Computers The Basics



Many people believe that knowing how to use a computer, is one of the basic skills needed to succeed in the workplace. In order to use the computer it is necessary to understand how the computer works.

Hardware

Computer hardware is made up of the equipment used to make up your computer unit. These parts include your monitor, central processing unit (CPU), keyboard, mouse, printer, and modem. The computer is an electronic machine that performs the following four general operations:

- Input
- Storage
- Processing
- Output.

Input
The input hardware allows you to enter data into the computer. The primary devices used are the keyboard and mouse.

Processing
The central processing unit or (CPU) is the "brain" of your computer. It contains the electronic circuits that cause the computer to follow instructions from ROM (read only memory) or from a program in RAM (random access memory).

Output
Output devices such as a monitor or printer make information you input available for you to view or use.

Storage
Auxiliary storage devices, also called secondary storage devices, are used to store instructions and data when they are not being used in mem-

AUXILLIARY

<p>To read data stored on a floppy disk or to store data on a floppy disk, you insert the floppy disk in a disk drive. If</p>	<p>the disk is unused, you must format or initialize it before your computer will allow you to store data on it. Formatting organizes the tracks around the disk</p>	<p>into pie like slices called sectors which make it possible for your computer to save and retrieve information. The density of the bits on the track and</p>
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Floppy Disks - A floppy disk is a circular piece of oxide-coated plastic

Floppy disks are identified as being double density or high density

KCSE PREMOCK SET 3

GEOGRAPHY

PAPER 1

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SECTION A. (25 MARKS)

(1) Name **two** dates during the year in which Sun is at the equinox. (2 marks)

(b) Why do lengths of day and nights vary from one part of the earth to another. (2 marks)

2) The local time in Maseru 60° W is 11.20 am, what is the time in Nairobi 37° E. (3 marks)

(3) Outline **three** processes involved in hydrological cycle. (3 marks)

(b) State four factors that facilitate deposition of rivers. (4 marks)

(4) Give **three** causes of earthquakes. (3 marks)

(b) Name **two** major earthquake zones. (2 marks)

(5) State **three** conditions necessary for siting a weather station. (3 marks)

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(b) Name three instruments that are placed inside the Stevenson's Screen. (3 marks)

SECTION B.

Study the map of **Oyugis** (1:50,000) sheet 130/1 and answer the following questions.

Name three methods used to represent relief in the area covered by the map.

(3 marks)

Calculate the bearing of **Rabango** School grid (742364) from **Omoche** school

Grid (762378) (2 marks)

Name **two** types of vegetation in the area covered by the map. (2 marks)

Measure the distance covered by all weather road surface bound in the Northern part of the area covered by the map. (2 marks)

Explain **three** factors that have influenced distribution of settlement in the area covered by the map. (6 marks)

Describe the relief of the area covered by the map. (5 marks)

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Calculate the **magnetic variation** of the map. (2 marks)

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

(a) What is the difference between an ice sheet and an ice berg? (2 marks)

(b) Give **two** processes through which the ice erodes the earths surface. (2marks)

(c) Using well labeled diagrams, describe how the following features are formed

(i) Pyramidal peak (5 marks)

(ii) Cirque lake (4 marks)

(d) Students from a school in Nanyuki were preparing to go for a field study in Mt. Kenya.

(i) Given **three** ways they prepare for the study. (3 marks)

(ii) State **three** problems they were likely to experience during the study. (3 marks)

Name **three** features they were likely to identify in the lowland areas. (3 marks)

(iv) Give **three** follow up activities they would undertake after the field study.

(3 marks)

(a) (i) Differentiate between Ocean and Sea. (2 marks)

Identify **three** resultant features of the emerged highland coasts. (3 marks)

(b) i) State **three** factors influencing deposition by Ocean waves. (3 marks)

ii) With aid of well labeled diagram explain the formation of the following coastal features.

Barrier reef

(5 marks)

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Stack.

(5 marks)

Explain **four** the significance of oceans to human activities. (8 marks)

(a)(i) Name **three** major deserts found in Africa. (3 marks)

Give **two** processes in which wind erodes the earths surface. (2 marks)

(iii) Explain **three** ways in which wind transports its load.

(6 marks)

(b) Using well labeled diagrams, explain how the following desert features are formed.

(i) Yardangs. (5 marks)

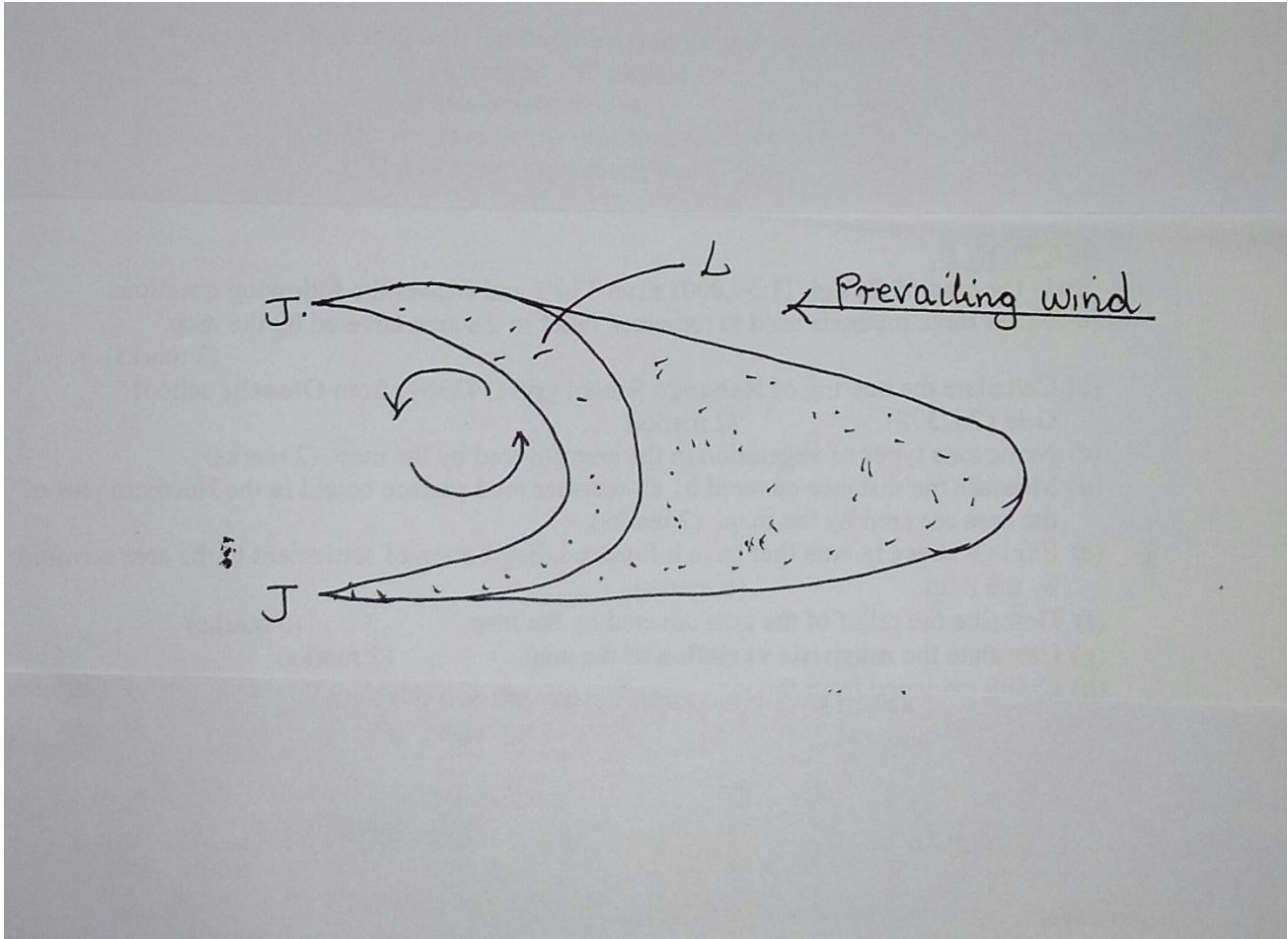
(ii) Mushroom blocks.

(6 marks)

(c) The diagram below represents features resulting from wind deposition in a desert

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Use it to answer questions that follow.

(i) Name the above feature. (1 mark)

(ii) Name parts marked. (2 marks)

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(a) Define the term natural vegetation. (2 marks)

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

(i) Soil (2 marks)

(ii) Altitudes. (2 marks)

(iii) Human beings (2 marks)

-3-

(c) Identify the temperature grasslands found in the following countries. (3 marks)

(i) New Zealand

Argentina

South Africa

(d) Explain **four** ways in which coniferous forests are adapted to the climatic condition

(e) You are planning to carry out a field study on forest vegetation around Aberdare forest.

(i) State **three** reasons why it is necessary to have a route map. (3 marks)

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(ii) Give the methods you would use to determine each of the following aspects of trees in the forest. (3 marks)

Age of the trees in the forest

Height of the trees in the forest

Tree species

KCSE PREMOCK SET 3

GEOGRAPHY PAPER 2

SECTION A (25 MARKS)

(1) Name **two** types of mineral fuels. (2 marks)

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(b) Identify **three** factors which favour the commercial exploitation of minerals in certain countries of Africa. (3 marks)

(2) Apart from pre-historic sites give **Two** other tourist attractions found at the Coast of Kenya. (2 marks)

(b) State **three** reasons why it is necessary to preserve historical sites three. (3 marks)

3) Give **four** benefits of the construction of standard Gauge Railway SGR in Kenya. (4 marks)

(a) Apart from water pollution name three other types of pollution. (3 marks)

(b) Give **three** effects of water pollution on the environment. (3 marks)

(a) Define visible Trade. (2 marks)

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List **three** major exports from Kenya to the European Union (EU) (3 marks)

SECTION B. (75 MARKS)

Answer question 6 and any other Two questions in this section.

Study the photograph below and answer the questions that follow. What type of photograph is this.
(1 mark)



What economic activity is taking place in this photograph. Give reason for your answer.

for your

(2 marks)

(i) Apart from Lake Victoria state **three** other main lakes the shown fish is likely to have been caught. (3 marks)

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(ii) Explain **four** problems experienced by fishermen while carrying out fishing in Lake Victoria. (8 marks)

Give **three** methods used to preserve fish. (3 marks)

Explain how the following factors favour a lot of fish and fishing in Japan.

Indented coastline. (2 marks)

Continental shelf. (2 marks)

Convergence of currents. (2 marks)

Advanced technology. (2 marks)

(a) Define arable farming. (2 marks)

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(b) State **three** factors that have led Kenya to change from subsistence farming to commercial farming. (3 marks)

(i) State **two** areas in Kenya where maize is grown in large scale. (2 marks)

(ii) Mention **three** physical requirements for growing maize in Kenya. (3 marks)

Give **four** uses of maize and by products. (4 marks)

Students of carried out a field study in a Maize plantation three weeks after planting is done.

Outline **three** activities they are likely to encounter. (3 marks)

Give **two** methods they would use to record the data. (2 marks)

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Explain **three** problems facing maize farming in Kenya. (6 marks)

(a)(i) State **three** reasons why the North Eastern Kenya has population. (3 marks)

(ii) Give **four** types of information that can be extracted from the population pyramid.

(4 marks)

(b) State **four** causes of rural to rural migration in Kenya. (4 marks)

(c) Explain **four** positive effects of low population growth. (8 mark)

-3-

Compare the population of Kenya and Sweden under the following sub headings.

Dependency ratio (2 marks)

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(ii) Life expectancy.

(2 marks)

(iii) Age groups.

(2 marks)

(a) Identify **two** agricultural non-food based industries located in Thika. (2 marks)

(b) (i) State **four** reasons for decentralization of industries in Kenya. (4 marks)

Give **three** reasons why most industries are located near sources of water. (3 marks)

(c) Outline **four** characteristics of cottage industries in India. (4 marks)

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(d) Explain **three** factors that favour car manufacturing and electronics industries in Japan.

(6 marks)

Explain **three** significances of industries and industrialization in Kenya. (6 marks)

(a) Define the term wildlife.

(2 marks)

(b) State **four** ways in which wild life is of great importances. (4 marks)

Give **four** physical factors that influences distribution of wildlife in Africa.

(4 marks)

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(d) Explain **four** problems facing forests in Kenya as a wildlife habitat. (8 marks)

(e) Students of Karega high school intend to visit Masaai Mara Game Reserve.

(i) Outline **two** objectives for heir visits. (2 marks)

(ii) Identify **three** methods they could use to collect the data. (3 marks)

(iii) Give any **two** unique human activities they were likely to come across which are not there in a game park. (2 marks)

KCSE PREMOCK SET 3

**441/1
HOME SCIENCE
PAPER 1**

1. State two ways of preventing athletes' foot. (2 marks)

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2. State four precautions to take in order to avoid accidents in the home. (2 marks)

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3. Define the term “blanching.” (1 mark)

.....
.....
.....

4. Identify four reasons for missing menstruation apart from pregnancy. (2 marks)

.....
.....
.....

5. Outline six precautions to take when cleaning glass utensils. (3 marks)

.....
.....
.....

6. Mention four factors to consider when using cosmetics. (2 marks)

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7. State four factors to consider when selecting fabric for the school blouse.(2 marks)

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8. In what four ways is the environment polluted? (2 marks)

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9. Mention three reasons for including vegetables in the diet of the elderly.(3 marks)

.....
.....

10. State four functions of water in the body. (2 marks)

.....
.....

11. State two ways in which ignorance may lead to malnutrition (2 marks)

.....
.....
.....

12. Give two reasons for folding in flour in creamed cake mixtures (2 marks)

.....
.....
.....

13. Why is it important to have a charcoal jiko burning in a well-ventilated room?

(2 marks)

.....
.....

14. State four reasons for using carpets in the house.

(2 marks)

.....
.....

15. Suggest three ways of conserving energy when using a gas cooker.

(3 marks)

.....
.....

Identify two functions of openings on a garment.

(2 marks)

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.....
State two reasons for covering food while cooking. (2 marks)

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.....
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16. State two factors to consider when setting the table. (2 marks)

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.....

17. Outline four principles of food preservation. (2 marks)

.....
.....

18. State any two pieces of information found on a receipt. (2 marks)

.....
.....

SECTION B (COMPULSORY) 20 MARKS

19. You are planning to host your sister’s graduation party at home. In preparation for the occasion ;

m) Outline the procedure you would follow to thoroughly clean the plastic chairs to be used for the occasion. (6 marks)

n) Describe the procedure you would follow when laundering a loose coloured handkerchief. (8 marks)

c) Describe the method you would use to clean a varnished wooden table to be used for the occasion. (6 marks)

SECTION C – 40 MARKS

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Answer any TWO questions from this section

20. a) Identify six qualities of aluminium that make it suitable for making kitchen utensils. (6 marks)
- b) State six characteristics of buffet service. (6 marks)
- c) Outline four disadvantages of re-heating food. (4 marks)
- d) Explain four situations that would require one to wash hands to prevent spread of diseases. (4 marks)
21. a) Explain four advantages of being able to draft patterns rather than using commercial ones. (8 marks)
- b) Describe the procedure of working a single pointed dart. (6 marks)
- c) State six characteristics of a good ironing surface. (6 marks)
- 24.a) Explain any six factors that can affect normal foetal development. (6marks).
- (b) Give any six advantages of person to person advertisement over print media. (6marks).
- (d) Discuss **four** reasons why the use of charcoal should be minimized. (8marks)

KCSE PREMOCK SET 3

441/2

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HOME SCIENCE

PAPER 2

(CLOTHING AND TEXTILES PRACTICAL)

A pattern of a girl's dress is provided. You are advised to study the sketches, instructions and lay-out before you begin the test

MATERIALS PROVIDED

- o) A Front yoke
- B Back yoke
- C Skirt front
- D Skirt back
- E Pocket
- F Frill
- G Neck binding
- p) Plain light weight cotton fabric 65cm by 90cm wide
- q) Enough hand needles
- r) Sewing thread to match the fabric

THE TEST

Using the materials provided, cut out and make the RIGHT half of the girls dress to show the following

- r) Making of the shoulder dart
- s) Preparations and attaching of the patch pocket.
- t) Making of machine fell seam on the R.S at the shoulder
- u) Making of the side seam using French seam
- v) Joining the front yoke to the front skirt and back yoke to the back skirt using overlaid seam(neaten the back section only)

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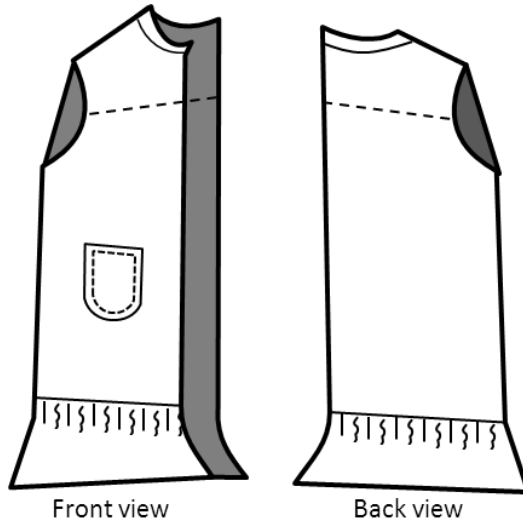
- w) Preparing the frill hem using machine stitches and gathering the free edge
- x) Attaching the frill to the skirt using plain seam
- y) Binding the neckline
- z) Make hand worked button hole at the pocket hem.

At the end of the examination, firmly sew on to your work, on single fabric a label bearing your name and index number. Remove the needles and pins from your work. Fold your work carefully and place it in the A 4 envelope provided. Do not put scraps of fabric in the envelope .

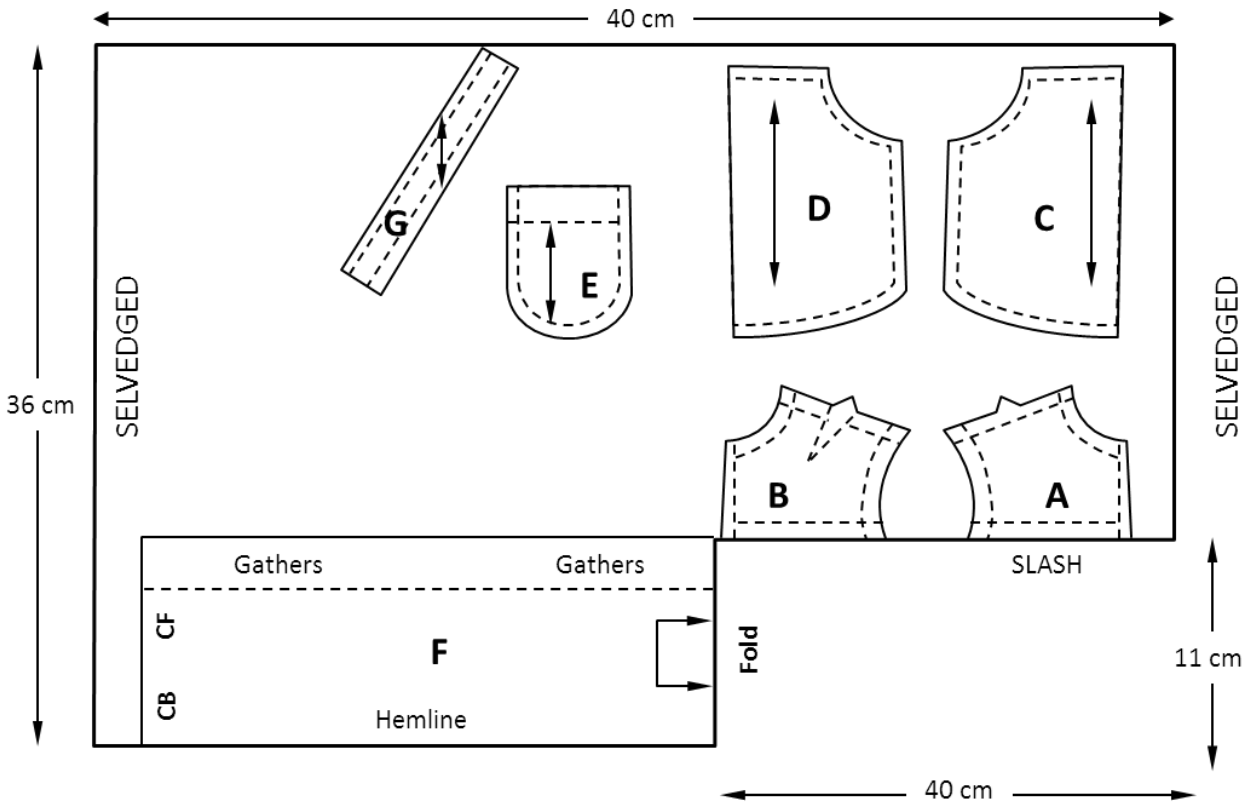
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KCSE PREMOCK SET 3

311/1 HISTORY & GOVERNMENT

PAPER 1

SECTION A

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

- 1) Identify the main source of history and Government during the pre-colonial period.
- 2) Give two reasons why Kenyan communities fought against each other during the Pre-colonial period.
- 3) Identify two sub-groups of the Kalenjin speakers.
- 4) Name the document which contains the right of individuals and special groups in the constitution.
- 5) State two ways in which direct democracy is exercised in Kenya.
- 6) Give one reason why the independence constitution of 1963 was known as Majimbo constitution.
- 7) Give one way in which constitution of Kenya guarantees the rule of law.
- 8) Give one reason why Mob-Justice is forbidden in Kenya.
- 9) Identify two Kenyan communities that collaborated with the British.
- 10) State the main reason why independent church movement started during the 19th century. 1m
- 11) Identify two education commissions established in Kenya before independence.
- 12) State two factors that are considered when changing constituency boundaries in Kenya.
- 13) Identify two types of land ownership in Kenya.
- 14) Give the main reason why the Government introduced free primary education in 2003.
- 15) Identify two types of revenue expenditure by the National Government of Kenya.
- 16) Who is the Chief Executive officer of the County Government?
- 17) What was the main reason for the formation of KADU in 1960?

2) SECTION B:

*3) Answer any **THREE** questions from this section.*

- 1) (a) Give five reasons which led to the migration of the Cushites from the original homeland into Kenya.

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- 2) (b) Explain five social results of the migration and settlement of the Mijikenda in their present homeland.
- 3) (a) Name three early Christian missionaries who worked in Kenya.
- 4) (b) Explain six effects of long distance trade on the peoples of Kenya.
- 5) (a) Give five factors that influenced the location of urban centres during the colonial period in Kenya.
- 6) (b) Explain five ways in which colonial land policies in Kenya undermined African economy during the colonial period.
- 7) (a) Identify three national philosophies used as development strategies in Kenya.
- 8) (b) Explain social effects of the national philosophies on development of Kenya.

4) **SECTION C**

5) *Answer any **TWO** questions from this section.*

- 1) (a) Outline five functions of Chief Justice in Kenya.
- 2) (b) Explain five problems facing judiciary in Kenya.

- 3) (a) State three ways in which the government of Kenya ensures effective utilization of public funds.
- 4) (b) Explain six ways in which parliamentary supremacy is exercised in Kenya.
 - a. State three ways in which the National Government relates with County Government. 3m
- 5) (b) Explain six challenges faced by the County Government in Kenya.
12m

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KCSE PREMOCK SET 3

311/2

HISTORY & GOVERNMENT

PAPER 2

SECTION A

Answer all the questions in this section

- 1) State the main characteristics of the Stone Age era
- 2) State two factors that led to the decline of Meroe as an early urban centre.
- 3) Identify two limitations of using electronic sources of historical information.
- 4) Give Dunlop's main contribution to the early transport. 1m
- 5) State two characteristics of macadamized roads. 2m
- 6) State two roles of Lukiiko in the Buganda kingdom. 2m
- 7) State one major discovery that revolutionized agriculture in Egypt.
- 8) State the role of King Leopold II in the scramble and Partition of Africa. 1m
- 9) State one term of the Industrial Conciliation Act of 1934 in Zimbabwe
- 10) Identify the main reason why it took long for the French to defeat Samori Toure
- 11) Identify one reason why Adolf Hitler invaded Austria in 1938.
- 12) What was the aim of the formation of Non-Aligned Movement. 1m
- 13) State two roles of the Tuaregs during the Trans-Saharan trade. 1m
- 14) State two reasons why Odwira festival was held among the Asante during pre-colonial period.
- 15) State two functions of the House of Lords in Britain.
- 16) State the main function of the international labour organization. 1m
- 17) Name two communities that took place in MajiMaji rebellion in Tanganyika.

SECTION B

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Answer ANY THREE questions from this section.

- (a) Give three stages in the evolution of man before Homo Erectus. 3m
(b) Explain six cultural practices of man during the New Stone Age period. 12m
- (a) Show five ways through which the development of iron technology affected African communities in the Pre-colonial period. 5m
(b) Explain five social effects of industrial revolution in Europe during the 18th century. 10m
- (a) How did the invention of steam contribute to the process of colonization in Africa. 3m
(b) Explain six positive effects of European colonization of Africa. 12m
- (a) Give three political changes introduced by Mobutu Sese Seko which led to dictatorship in the DR Congo. 3m
(b) Explain the economic problems faced by DR since independence. 12m

SECTION C

Answer ANY TWO questions from this section.

- (a) Give three ways through which trade contributed to the rise of Asante Kingdom. 3m
(b) Describe the social organization of Asante Kingdom. 3m
- (a) State three permanent members of the United Nations Security Council. 3m
(b) Explain six ways in which the United Nations provide humanitarian assistance. 12m
- (a) Give five importance of the British Monarchy in Britain. 5m
(b) Explain five functions of the cabinet of India. 10m

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KCSE PREMOCK SET 3

PHYSICS PAPER ONE 232/1

SECTION A (25MKS)

- 1) The diagram below shows a micrometer screw gauge used by a student to measure the thickness of a wire. If it has a zero error of 0.06mm , what is the actual thickness of the wire.(2mks)

- 2) A density bottle was used to measure the density of liquid L and the following measurements were recorded.
 - y) Mass of empty density bottle = 26.0g
 - z) Mass of bottle filled with alcohol (of density 800kg/m^3) = 66.0g
 - aa) Mass of density bottle filled with liquid L = 86.0g
 - bb) Find the density of liquid L (2mks)

- 3) State the reason why water spilled on a clean glass surface wets the surface.(1mk)

- 4) The figure 1 below shows two immiscible liquids in a u- tube manometer. Use it to calculate the density of liquid A (take density of water as 100kg/m^3) (3mks)

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- 5) What does the term Brownian motion mean .(1mk)
- 6) The diagram below shows bulbs P and Q painted white and black. Explain what happens when the heater is turned on.(2mks)
- 7) A uniform rod of length 4m and mass of 4kg is pivoted at 3.6 m mark. The rod is held horizontally with a vertical rope at the 4m mark as shown in the figure below.

Calculate the tension in the rope .(3mks)

- 8) State the reason why a steel sphere resting on a horizontal surface is said to be in neutral equilibrium.(1mk)

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9) A spring stretches 2.0cm when a weight of 5.0N is hang from it. Determine the force that produces an extension of 2.5cm.(2mks)

10) The figure below shows a funnel inverted over a light pith ball on a table .Air is blown into the funnel as indicated on the diagram

State and explain what is likely to be observed.(2mks)

11) When a liquid is heated in a glass flask, its level at first falls then rises. Explain this observation.(2mks)

12) A car of mass 800g is initially moving at 25m/s. Calculate the force needed to bring the car to rest over a distance of 20m.(3mks)

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13) Explain why an air bubble in a pond burst as it reaches the surface.(1mk)

SECTION B (55MKS)

14) a) State Newton's second law of motion .(1mk)

b) A 5kg mass moving with a velocity of 10m/s collides with a 10kg mass moving with a velocity of 4m/s in the same direction along the same line. After collision the 5kg mass moves with a velocity of 7.0m/s. Calculate the velocity of the 10kg mass.(3mks)

c) A ball dropped from a tall building hits the ground with a velocity of 30m/s .What is the height of the building.(3mks)

d) The figure below shows a part of a tape of a motion of a trolley. Taking measurement from figure. Calculate the acceleration of the trolley between P4 and Rs.(4mks)
(given frequency = 50Hz)

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e) An object travelling at 10m/s decelerates uniformly at 2m/s^2 and comes to rest. Calculate the distance travelled by the object .(3mks)

15) a) The figure below shows a hydraulic system using a lever of negligible mass on the side of a small piston pivoted at point P, A force of 120N is applied at A.

k) Calculate the force exerted by the small piston on the liquid.(2mks)

l) Find the weight of the car supported by the large piston.(2mks)

m) Determine the velocity ration of the hydraulic lift system.(2mks)

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b) A man uses an incline plane to lift a 100kg mass through a vertical height of 8m. The incline plane makes an angle of 30° with the horizontal. If the efficiency of the inclined plane is 80% .Calculate.

- s) The velocity ratio.(2mks)

- t) Mechanical advantage .(2mks)

- u) Effort needed to move the load up the incline.(2mks)

- v) Work done against friction.(2mks)

16) a) Define heat capacity.(1mk)

b) Find the final temperature of water if a heater source rated 42 w heats 50g of water from 20°C in five minutes.(Specific heat capacity of water = $4200 \text{ J kg}^{-1} \text{ K}^{-1}$) (3mks)

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c) In an experiment to determine the specific latent heat of fusion of ice 0.5g of dry ice 0°C is melted up in 1kg of water at 21°C in a copper calorimeter of mass 0.5kg. If the final temperature of the mixture falls to 16°C, what is the specific latent heat of fusion of ice. (Take specific heat capacity of water = $4200 \text{ J kg}^{-1} \text{ K}^{-1}$, that of copper = $400 \text{ J kg}^{-1} \text{ K}^{-1}$) (4mks)

17) The set up below was used by a student to investigate a certain gas law. Use it to answer the question that follow.

kkk) State the two variables that the student needs to measure and record for this law to be verified. (2mks)

lll) Give the statement of the law being investigated in this set up. (1mk)

mmm) State one precaution to be observed while using the set up. (1mk)

nnn) Use the kinetic theory of matter to account for the law stated in (ii) above. (2mks)

b) A gas container of volume $1.5 \times 10^{-2} \text{ m}^3$ contains an ideal gas at a temperature of 27°C and pressure $1.0 \times 10^5 \text{ p.a}$. Determine the volume of the gas if it is cooled to 17°C and its pressure raised to $1.5 \times 10^5 \text{ p.a}$. (3mks)

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18) a) Define angular velocity.(1mk)

b) A mass of 2kg is attached to a string of length 60cm . It is whirled in a circle in a vertical plane at 10 revolutions for every 2 seconds.

Calculate the tension in the string when the mass is at the

14. Highest point of the circle.(3mks)

15. Lowest point of the circle.(2mks)

c) A solid displaces 8.5cm^3 of a liquid when floating in a certain liquid and 11.5cm^3 when fully submerged in the same liquid.

The density of the solid is 0.8g/cm^3 , determine;

7. The up thrust of the solid when floating.(3mks)

8. The density of the liquid .(2mks)

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KCSE PREMOCK SET 3

PHYSICS PAPER II 232/2

SECTION A

- 1) The figure below shows two plane mirrors inclined at an angle X from each other. A viewer counts a total of seven images from looking directly from each of the object O . Determine the value of X (3mks)

- 2) Explain how a charged electroscope can be used to distinguish insulator and conductor. (1mk)

- 3) The figure below shows a horse- shod magnet whose poles are labelled and two other magnets near it. Iron nails attracted to the lower ends of the magnets as shown.

Identify poles marked X and Y (1mk)

- 4) The figure below shows a current carrying conductor in between poles of a magnet.

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- p) Show on the diagram the magnetic field pattern (1mk)
- q) The direction of net force on the conductor (1mk)
- 5) How many electric iron boxes rated 100,000 could be safely connected to a 240v main circuit fitted with a 13A fuse (2mks)
- 6) State one advantage of alkaline accumulator over lead –acid accumulator. (1mk)
- 7) The figure below represents a displacement –time graph for a wave.

Determine frequency of the wave (2mks)

- 8) When radiation was released into a cloud chamber, short thick tracks were observed. State with a reason the type of radiation that was detected. (2mks)

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9) The figure below shows a ray of light incident on glass-air interface.

Given that the refractive index of glass is 1.48 determine the value of Q (3mks)

10) Gamma rays, radio wave, infrared and X-rays are part of electromagnetic spectrum.

cc) Arrange these radiations in order of increasing energy (1mk)

dd) State how radio waves are detected (1mk)

11) State lens law of electromagnetic induction.

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12) The work function of clean metal surface is 7.5eV. Calculate the minimum frequency of radiation that will cause the emission of electrons from the surface ($h = 6.63 \times 10^{-34} \text{ Js}$ $e = 1.6 \times 10^{-19} \text{ C}$) (3mks)

13) The initial mass of a radioactive substance is 40g. The substance has a half-life of 10years. Determine the mass remaining after 40 years. (3mks)

SECTION B 55 MARKS

14) a. The figure below shows two circuits close to each other.

When the switch is closed, the galvanometer shows a reading and then returns to zero. When the switch is then opened the galvanometer shows a reading in opposite direction then return back to zero. Explain these observations. (4mks)

b. A transformer is designed to supply a current of 12A at a p.d of 80v. the inlet cable is to be connected to an a.c mains of 240v. The efficiency of this transformer is 80% .

Calculate:-

a) Current in the transformer (2mks)

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b) The power supplied to the transformer (3mks)

c. Explain how energy losses in a transformer are reduced by having

16. A soft iron core (1mk)

17. A laminated core (1mk)

15) a. The cell in the figure below has an e.m.f of 2.1v and negligible internal resistance

Determine

9. Total resistance in the circuit (2mks)

10. Current in the circuit (1mk)

11. The reading of the voltmeter. (2mks)

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20) Explain why fuse is connected to the live wire. (2mks)

b. A heater rated 3kw, 240v. The fuses available are marked 10A, 13A and 20A. Which fuse is most suitable (3mks)

c. The figure below shows features in an X-ray tube.

i. Name part labelled A. (1mk)

ii. State one property of the target and the metal used. (2mks)

iii. State property of lead which make it suitable for use as shielding material (1mk)

iv. Explain how a change in the potential across P changes the intensity of the X-rays produced (2mks)

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d. In a certain X-ray tube, the electrons are accelerated by a p.d of 12kv. Assuming all the energy goes to produce X-rays, determine the frequency of the X-rays produced (planks constant $h=6.62 \times 10^{-34}$ Js, charge of an electron $e=1.6 \times 10^{-19}$ c) (3mks)

17) a. State what is meant by accommodation as applied to the human eye. (1mk)

b. The figure below shows a pin 60mm long placed along the principal axis of a lens of focal length 50mm. The near end of the pin is 80mm from the lens.

Determine the length of the image. (3mks)

c. The figure below shows a defective eye

a) Name the defect (1mk)

b) State the cause of the defect (1mk)

c) State how the defect can be corrected (1mk)

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d) State one similarity between the eye and the camera (1mk)

d. Complete the following ray diagram (3mks)

18) State one difference between a C.R.O tube and T.V tube. (1mk)

b. A C. R.O screen displays the trace shown when the Y-amplification control and time base. Settings are 200mV/cm and 0.40ms/cm respectively

Calculate

u) Peak to peak voltage (2mks)

v) Frequency of the signal (2mks)

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