KCSE 2022 PREMOCKS

ALL SUBJECTS

SERIES 1

SUBJECTS COMPILED;

Mathematics, English, Kiswahili, Biology, Chemistry, Physics, CRE, History, Geography, Business Studies, Agriculture, Homescience, French &Computer Studies.

The overall aim of this premock tests is to provide a better perspective of most likely testable questions for All KCSE 2022 candidates

FOR MARKING SCHEMES/ANSWERS

CALL/TEXT/WHATSAPP 0746 222 000

COMPILED BY MWALIMU AGENCY

KCSE PREMOCK EXAMS

SERIES 001

NAME…… **INDEX NO……**

SCHOOL…… **SIGN……**

DATE……

BIOLOGY

PAPER 1

(THEORY)

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

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

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

FOR EXAMINER'S USE ONLY:

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1 - 25	80	

1. **(a)** Define the term '**parthenocarpy**' in Biology. **(1mk)**

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(b) Name **two** plant growth hormones that promote parthenocarpy. **(2mks)**

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

(i) Protein synthesis. **(1mk)**

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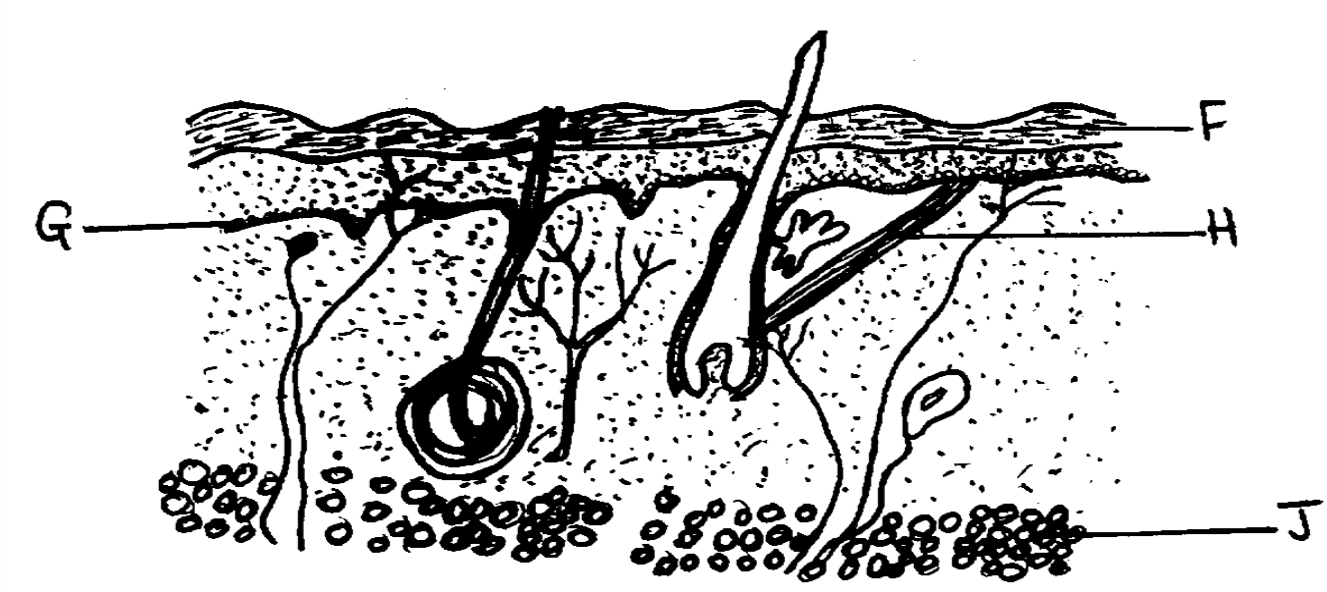
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(ii) Transport of cell secretions. **(1mk)**

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3. The diagram below shows a longitudinal section of mammalian skin.



a) Name the parts labelled **F** and **G.** **(2mrks)**

F _____

G _____

b) State **one** function of each of the parts labelled **H** and **J** **(2mrk**

H _____

J _____

4. Other than carbon (IV) oxide, name other products of anaerobic respiration in plants **(2mks)**

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5. **(a)** Name the fluid that is produced by sebaceous glands. **(1mk)**

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(b) State **two** functions of sweat on the human body. **(2mks)**

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6. (a) State **two** characteristics that are used to divide the phylum arthropoda into classes. **(2mks)**

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(b) Name the class with the largest number of individuals in the phylum Arthropoda. **(1mk)**

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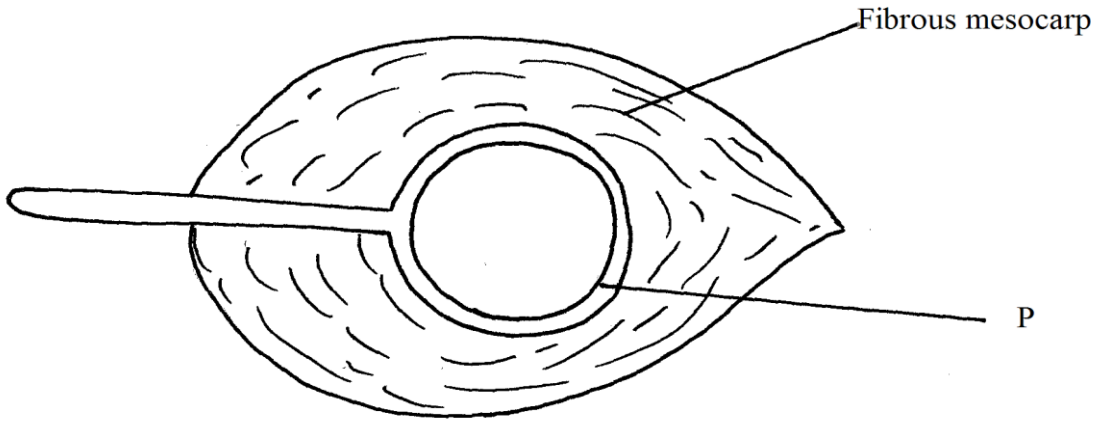
7. Why are people with blood group **O** referred to as universal donors? **(1mk)**

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8. The diagram below represents a longitudinal section of a fruit

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(a) Name structures labeled P **(1mk)**

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(b) Describe two adaptations of the fruit for its mode of dispersal **(3mks)**

(i) Mode of dispersal

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……

……

(ii) Adaptation

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9. (a) What causes the following diseases?

(i) Diabetes mellitus. **(1mk)**

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(ii) Diabetes insipidus. **(1mk)**

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b) An individual shows the symptoms for diabetes mellitus, how would you determine in the school laboratory whether they are positive for the condition? **(3mks)**

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10. In an attempt to estimate the number of weaver birds in a small woodland 435 were captured , marked and released. Three days later, 620 were captured 75 of which were marked.

a) What is the name of the sampling method described above? **(1mk)**

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b) Calculate the approximate size of the weaver bird population in the woodland. **(2mks)**

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c) Give one disadvantage of this method. **(1mk)**

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11. Identify the nucleic acid whose base sequence is shown below.

G-A-C-U-A-G-A-C-G

i) Identify the type of nucleic shown above **(1mk)**

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ii) Give reason for your answer in (i) above. **(1mk)**

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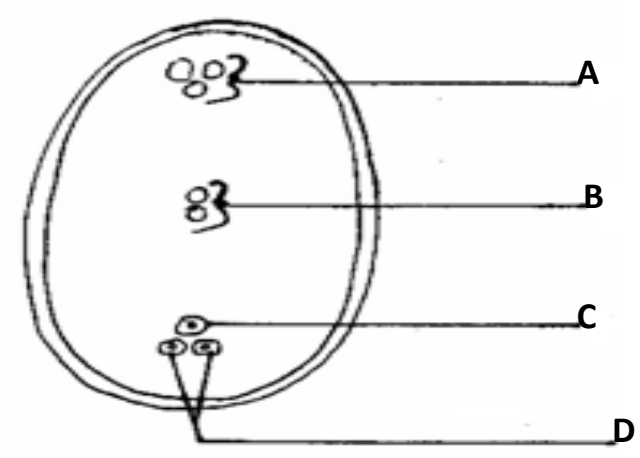
iii) Write the base sequence of a DNA strand for the nucleic acid shown above **(1mk)**

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12. The diagram **below** shows a mature embryo sac of a flowering plant.



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

A_____

B_____

(b) What is the function of the structure labeled B? **(1mk)**

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13. **(a)** Name the tissues that transport water in plants. **(1mk)**

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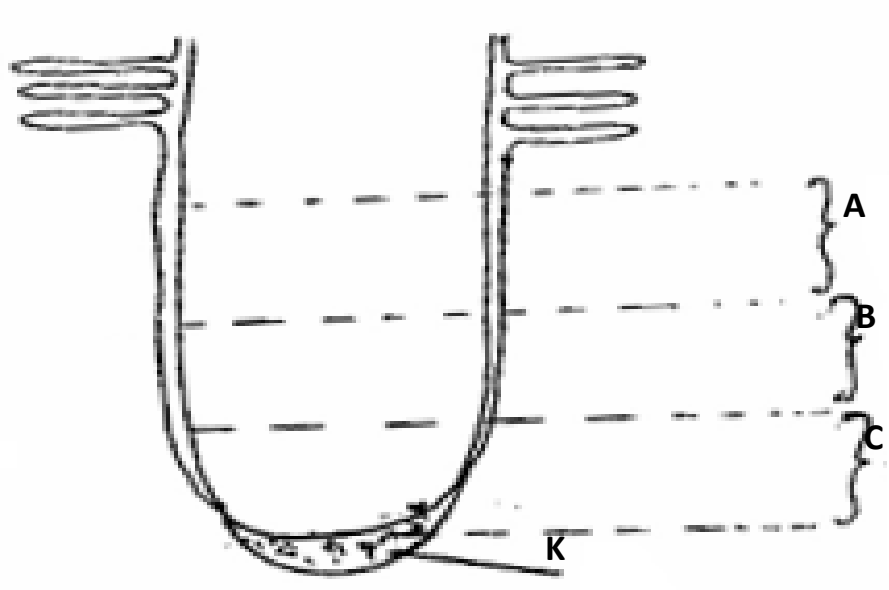
(b) State why the tissue above is said to be dead. **(1mk)**

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14. The diagram **below** shows regions of growth in a root. Study it and answer the questions that follow.



(a) Name the zone labeled **B**

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……**(1mk)**

(b) State the function of part **K** **(1mk)**

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(c) State three characteristics of the cells found in zone **C** **(3 mks)**

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15. The enzymes pepsin and trypsin are secreted in their inactive forms. Explain why they are secreted in these inactive forms. **(1mk)**

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16. **(a)** Give two examples of natural selection in action. **(2mk)**

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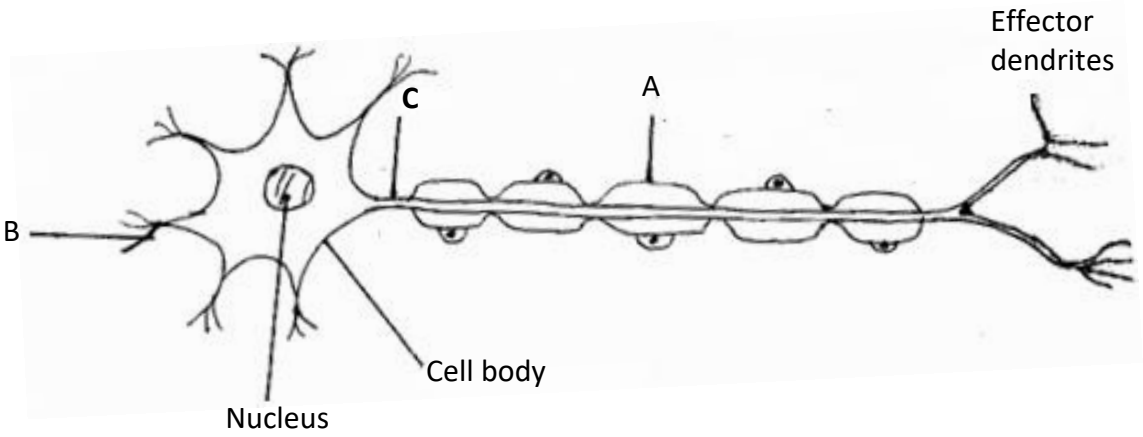
b) List three features that make man the most dominant species on earth. **(3mks)**

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17. Study the diagram **below** of a neurone in human being.



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

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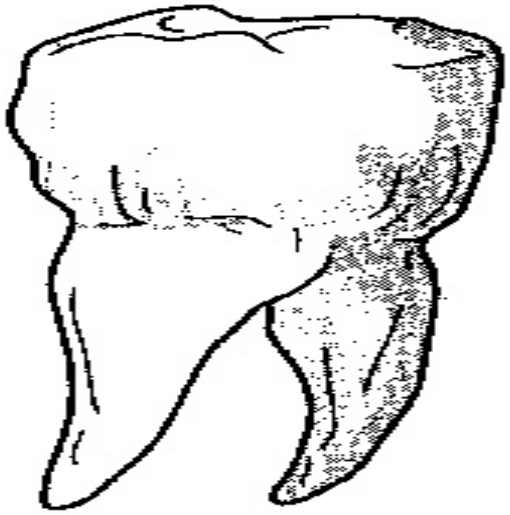
(b) Name the parts labeled.

A _____ **(1mk)**

B _____ **(1mk)**

(c) Using an arrow indicate the direction of movement of a nerve impulse along the neuron **(1mk)**

18. Study the diagram of the mammalian tooth **below** and answer the questions that follow.



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

……

……

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

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(c) State **one** adaptation of the tooth to its function. **(1mk)**

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19.a) Name the part of the brain that regulates breathing **(1mk)**

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b) Give two ways through which the body responds to increased concentration of carbon (IV) oxide in the blood **(2mks)**

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c) Name the structures in pneumatophores through which gaseous exchange occurs. **(1mk)**

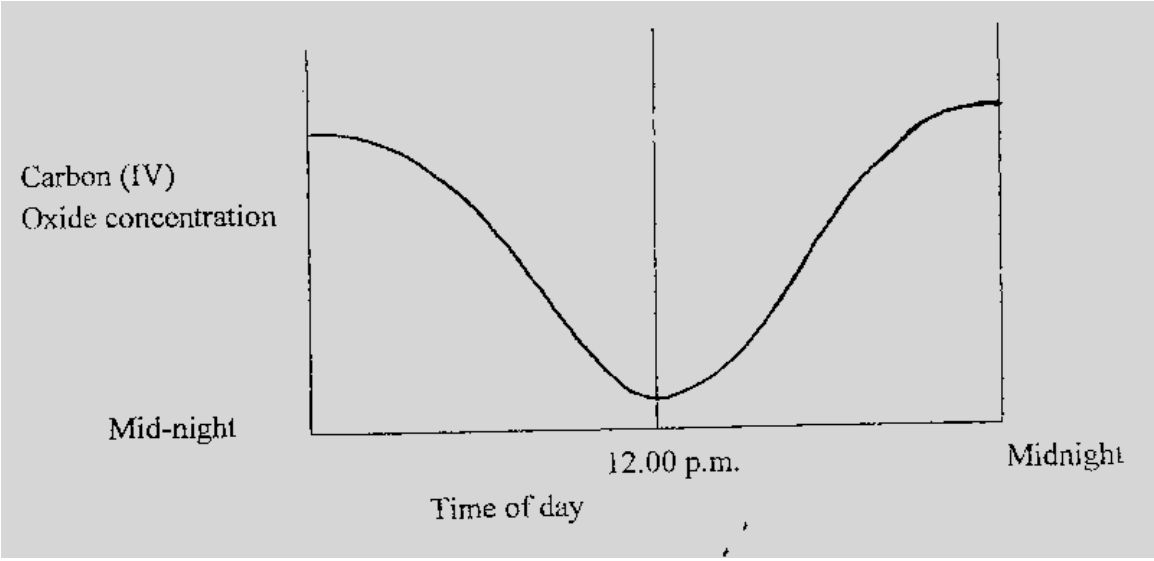
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20. The concentration of carbon (IV) oxide in a tropical forest was measured during the course of 24 hours period from mid-night to mid-night.



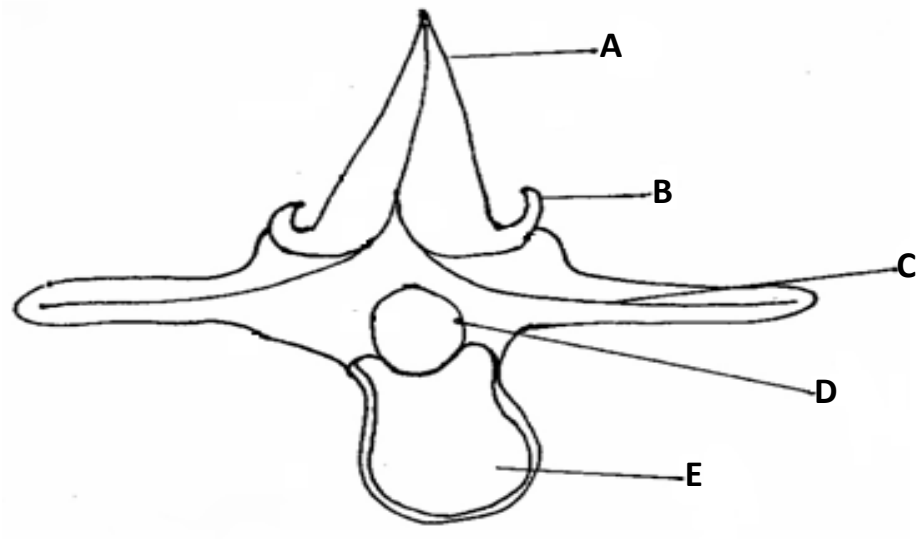
Account for the results obtained at mid day. **(2mks)**

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21. The diagram **below** represents the anterior view of a certain vertebra.



(a) With a reason, identify the type of vertebra shown **above**. **(2mks)**

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(b) Name the parts labeled.

(i) **A** _____ **(1mk)**

(ii) **D** _____ **(1mk)**

(c) State the function of part **E**. **(1mk)**

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22. (a) State one similarity between diffusion and osmosis **(1mk)**

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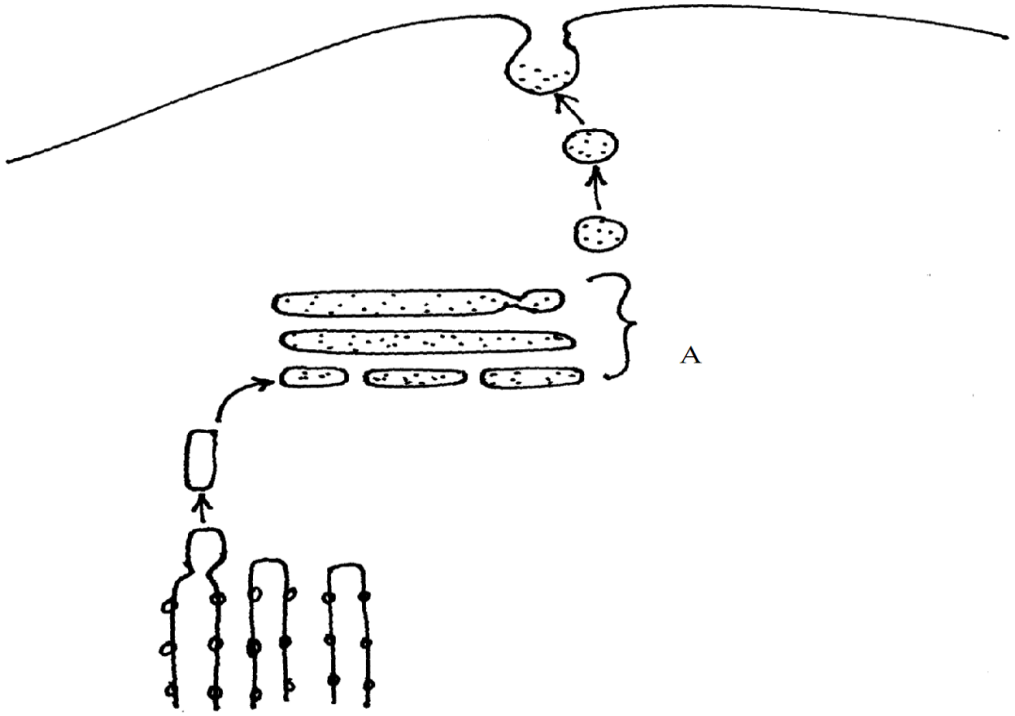
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(b) State two factors that can reduce the rate of active transport **(2mks)**

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23. Study the diagram below and use it to answer the questions.



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

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b) Give three functions of the organelle named in (a) above **(3mks)**

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24. It was found that during germination of pea seeds 9.3cm^3 of carbon (iv) oxide was produced while 9.1cm^3 of oxygen was used up.

a) Calculate the respiratory quotient (RQ) of the reaction taking place. **(2mks)**

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b) Identify the type of food substance being metabolized. **(1mk)**

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25. What is the biological importance of the larval stage during metamorphosis **(2mks)**

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KCSE PREMOCK EXAMS

SERIES 001

NAME…… **INDEX NO……**

SCHOOL…… **SIGN……**

231/2

BIOLOGY

PAPER 2

(THEORY)

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES:-

- *Write your **name** and **adm number** in the spaces provided above.*
- *This paper consists of **two** sections; **A** and **B**.*
- *Answer **all** the questions in Section **A** in the spaces provided.*
- *In section **B**, answer question **6** (**compulsory**) and either question **7** or **8** in the spaces provided after question 8.*

For Examiner's Use Only:

Section	Question	Maximum score	Candidates score
A	1	8	
	2	8	
	3	8	
	4	8	
	5	8	
B	6	20	
	7 or	20	
	8	20	
TOTAL SCORE		**80**	

SECTION A (40 Marks)

Answer all questions in this section in the spaces provided.

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

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

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(b) State two causes of variations **(1mk)**

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c) Name two sex linked genetic disorders affecting human females and males **(2mks)**

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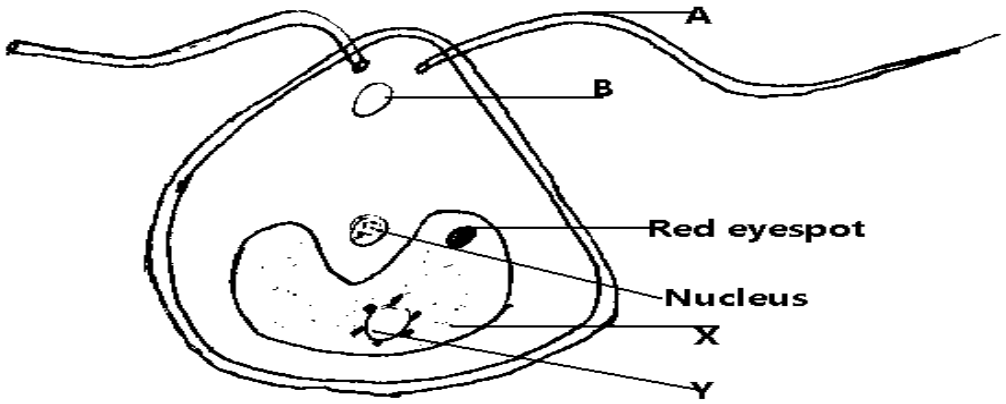
(d) What is genome

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2. The diagram below shows an organism obtained from an aquatic ecosystem



(a) State the kingdom in which the organism belongs. **(1mk)**

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(b) Name the parts labeled **(1mk)**

B

……

Y **(1mk)**

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(c) State the functions of the following parts

A **(1mk)**

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X **(1mk)**

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Z **(1mk)**

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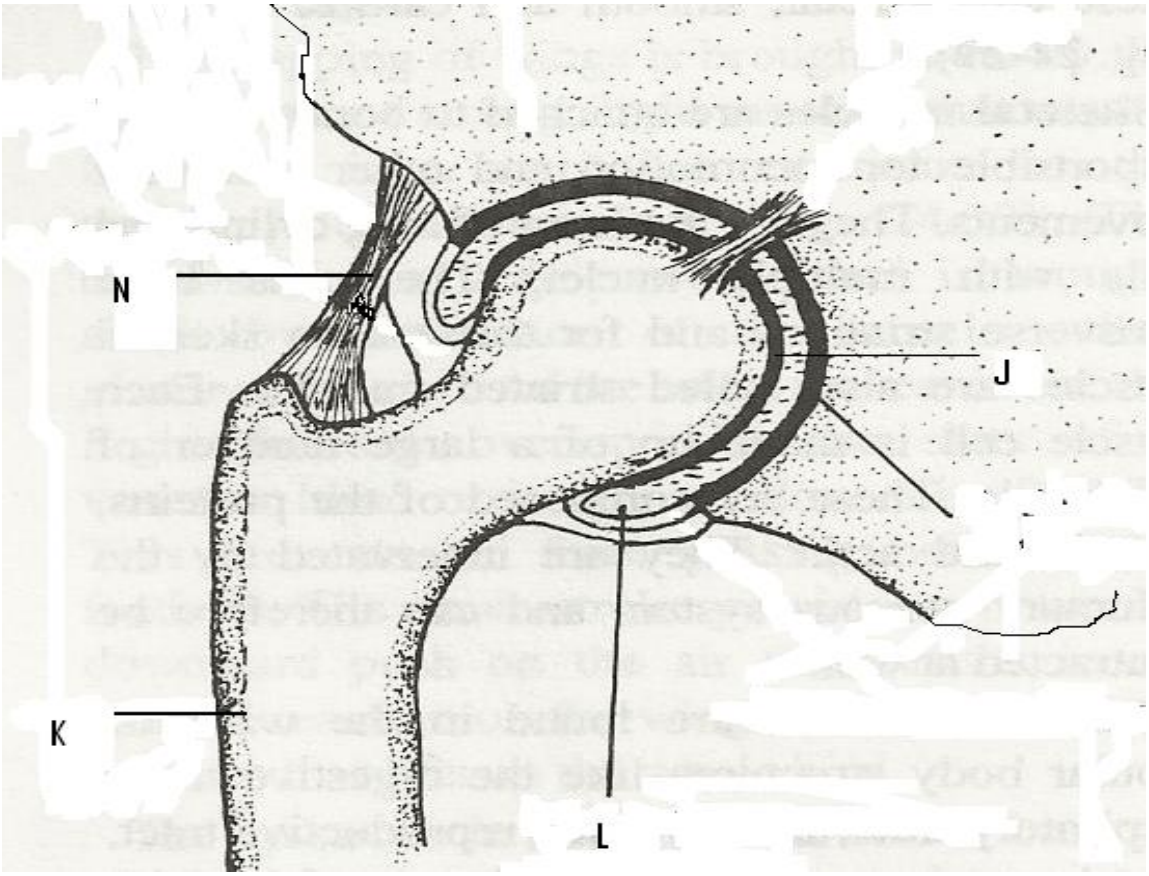
(d) Explain briefly why the organism is described as eukaryotic **(2mk)**

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3a) The diagram below shows some of the features of a synovial joint. Study the diagram carefully and answer the questions that follow.



(a) Name the type of synovial joint. **(1 mark)**

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(b) Name the parts labeled J, and L **(2 marks)**

J ……...

L ……..

(c) State **two** roles of the part labeled L**.** **(2 marks)**

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(d) Suggest **one** advantage of this type of joint. **(1 mark)**

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b) State how the following tissues are adapted to provide mechanical support in plants **(2mks)**

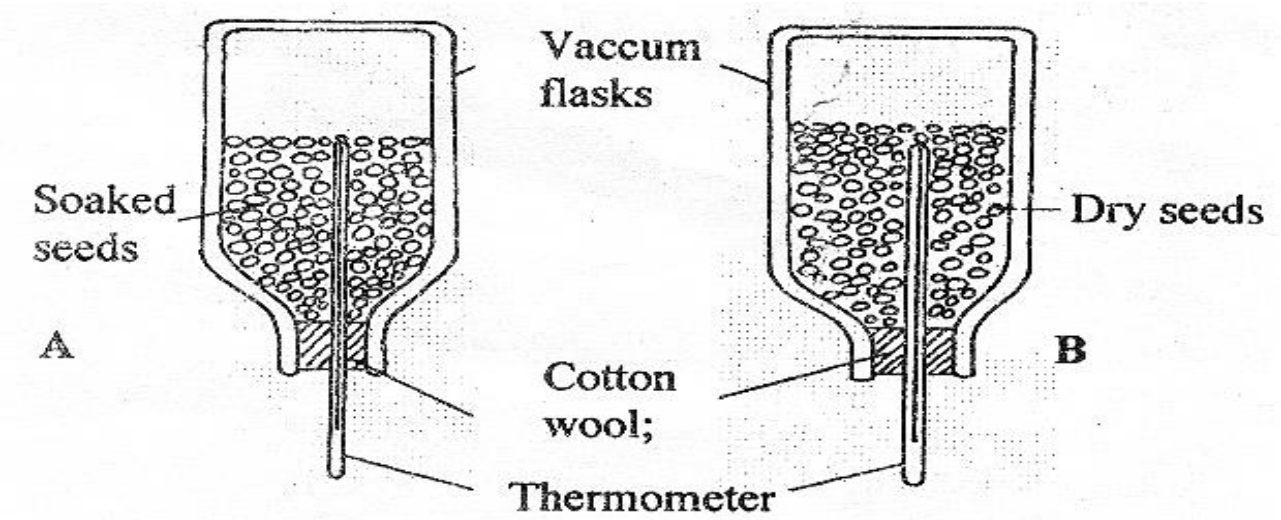
i) Parenchyma

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ii) Collenchyma

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



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

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b) State the observations made in each of the flask after 24 hours **(2mks)**

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

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

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

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

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5 a) Explain how the following meristematic tissues contribute to growth of higher plants

i) Vascular cambium **(2mks)**

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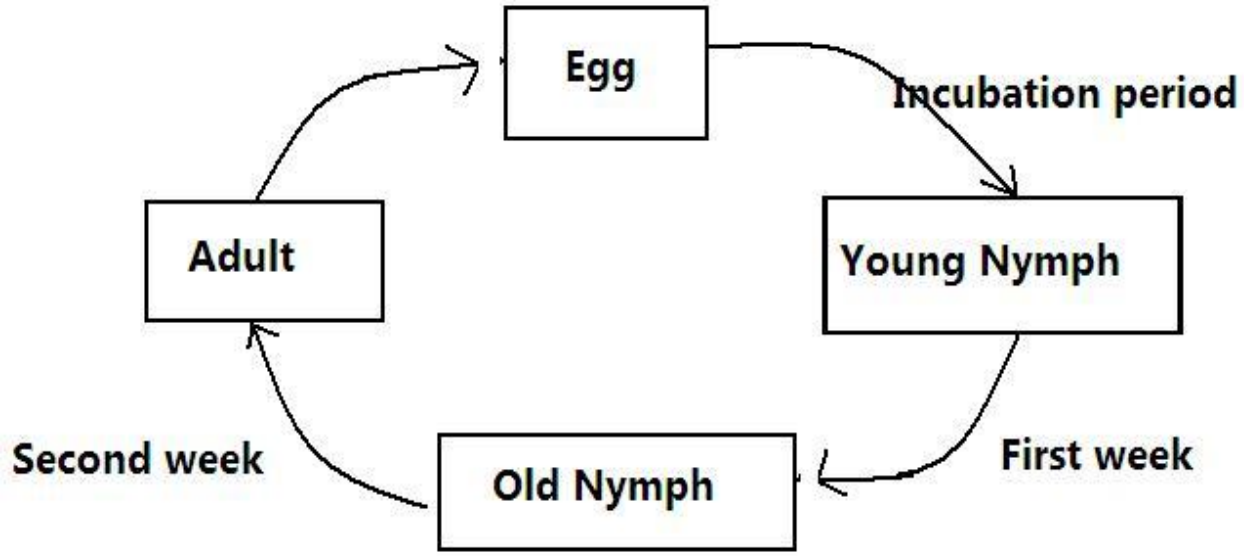
ii) Cork Cambium **(2mks)**

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b) The diagram below shows a life cycle of a cockroach



a) Name the hormone that would be at high concentration during.

(i) First week **(1mk)**

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(ii) Second week **(1mk)**

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b) Name the structure that produces hormone in a (ii) above **(1mk)**

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c) Name the series of stages through which the nymph undergoes to reach adult stage **(1mks)**

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SECTION B (40 Marks)

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

6. The menstrual cycle is a sequence of events repeated monthly in the female production system. The table below shows the concentration of oestrogen and progesterone hormones and body temperatures of female against time.

Time in days	**Oestrogen mg/100cm of blood**	**Progesterone mg/100cm^3 of blood**	**Temperature in 0^{o}c**
1	20	0	36.4
2	20.5	0	36.6
3	25	0	36.7
4	27.5	0	36.8
5	30	0	36.7
6	32.5	0	36.6
7	35	0	36.8
8	40	0	36.7
9	48	0	36.6
10	56	0	36.8
11	64	0	36.7
12	72	0	36.6
13	80	0	36.4
14	170	20	36.3
15	140	50	36.6
16	80	80	37.0
17	70	130	37.2
18	65	170	37.0
19	60	160	37.1
20	65	150	37.15
21	130	130	37.2
22	140	110	37.1
23	130	90	37.0
24	100	70	37.1
25	80	50	37.2
26	60	20	37.0

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27	20	0	36.4

a). Using the same axis draw graphs of oestrogen and progesterone against time/days **(8mks)**



b) State the possible event taking place in the uterus during the first week? **(1 mark)**

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c) State the events taking place in the ovary between day 1 and day 13. **(2 marks)**

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d) Account for the sudden increase in the progesterone concentration between day 14 and day18. **(2 marks)**

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e) Account for the change in temperature between day 14 and 17. **(1 mark)**

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f) Account for the change of the curve of progesterone between day 19 and 27. **(2marks)**

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a) State the function of the following.

(i) Ovary **(1mark)**

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(ii) Progesterone (1 mark)

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(iii) Oestrogen (1 mark)

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7 a) Describe how the following evidences support the theory of organic evolution: geographical distribution, fossil records and comparative anatomy **(10mks)**

b) Explain tropic responses in plants and their survival values **(10mks)**

8 a) Describe the structural adaptations of mammalian heart to its Functions **(10mks)**

b) Explain the role of osmosis in organisms **(10mks)**

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KCSE PREMOCK EXAMS

SERIES 001

SCHOOL…… **SIGN……**

BIOLOGY CONFIDENTIAL

Each candidate will require the following:

- ***a)*** 50ml distilled water labelled Q1.
- ***b)*** One ripe tomato labelled specimen J.
- ***c)*** 2 pieces of sewing machine cotton thread 9 15cm long each)
- ***d)*** Benedict's solution
- ***e)*** One mature pod from leguminous plant labelled specimen K.
- ***f)*** Iodine solution,
- ***g)*** One mature (dry) fruit of Bidens pilosa (Black jack)
- ***h)*** Labelled specimen L.
- ***i)*** 10cm long piece of visking tubing (wet) and preferably of 3cm width.
- ***j)*** 100 ml solution (made of 2% starch and 20% glucose) labelled Q2.
- ***k)*** Means of heating /Flame (candle or Bunsen burner)
- ***l)*** 100ml beaker
- ***m)*** A measuring cylinder – upto 10ml
- ***n)*** Distilled water.
- ***o)*** 6 test tubes
- ***p)*** Tap water / water in a wash bottle
- ***q)*** Test tube rank
- ***r)*** Test tube holder
- ***s)*** A sharp razor blade / scalped

'Note'

Guide lines for the preparation of solution Q2

To prepare 1 litre of solution Q2, dissolve 20g starch in about 500ml distilled water, dissolve 200g glucose in the solution.

Make up the total volume of the mixture 1 litre by adding distilled water.

KCSE PREMOCK EXAMS

SERIES 001

NAME…… **INDEX NO……**

SCHOOL…… **SIGN……**

231/3

BIOLOGY

PAPER 3

(PRACTICAL)

TIME: $1^{3}/_{4}$ HOURS

Kenya Certificate of Secondary Education (K.C.S.E)

INSTRUCTIONS TO CANDIDATES

1. *Write your name and index number in the spaces provided.*
2. *You are required to spend the first 15 minutes of $1^{3}/_{4}$ hours allowed for this paper reading the whole paper carefully before commencing your work.*
3. *Answers must be written in the spaces provided in the question paper.*
4. *Additional pages should not be inserted candidates may be panelized for recording irrelevant information and for incorrect spellings especially of technical terms.*

FOR EXAMINERS USE ONLY.

QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
1	16	
2	10	
3	14	
SCORE	**40**	

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1. You are provided with liquids labelled **Q1** and **Q2.** Spare about 10ml of the liquids for part (a) of this question. Using a piece of thread, tie tightly one end of the visking (dialysis) tubing. Open the other end of the tubing and half fill it with liquid **Q1**. Tightly tie this end. **Ensure there is no leakage in both ends**. Immerse the tubing in a beaker containing liquid **Q2**. Leave the set up for at least 30 minutes.

a) Using iodine and Benedict's solution provided; test for the food substance in liquids **Q1** and **Q2**. Record the procedure, observation and conclusion in the table below. **(6mks)**

LIQUID	PROCEDURE	OBSERVATION	CONCLUSION
A			
B			

After at least 30 minutes remove the visking tubing from the beaker and wash the outside of the tubing thoroughly to remove traces of liquid **Q2**.

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b) Using the same reagents, test the food substance in liquid Q1 in the visking tubing. Record your observations and conclusion in the table below. **(2mks)**

Liquid	Observation	Conclusion
Q1		

c) (i) **Name** the physiological process being demonstrated by this experiment. **(1mk)**

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ii) **Name two** parts of the human body where the process named in (c) (i) above takes place. **(2mks)**

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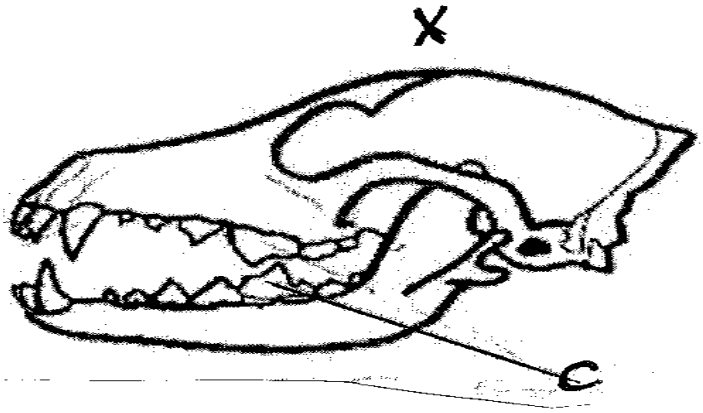
d) **Account** for the results obtained after carrying a second food test on liquid Q1**.** **(2 mks)**

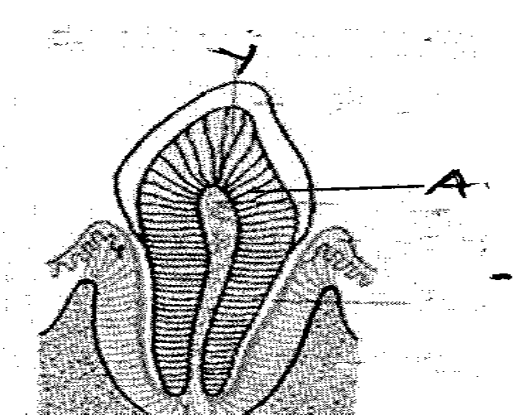
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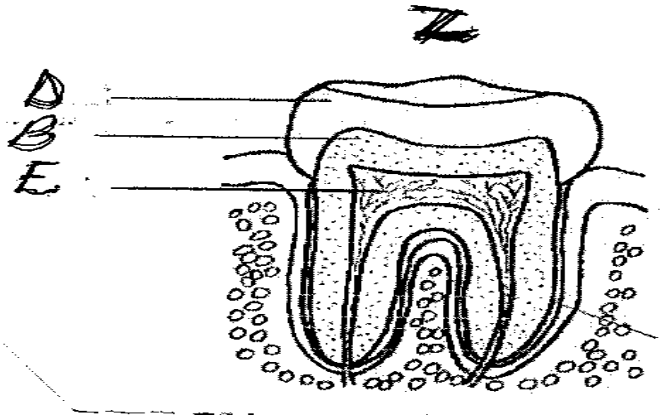
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2. You are provided with diagrams of specimens taken from a mammal. Study them carefully and answer the questions that follow.







(a) Identify the diagrams labeled below. (3 marks)

X.....

Y.....

Z.....

(b) State the diet of the animal from which diagram x was taken and give a reason for your answer.

(1 marks)

(i) Diet.....

(ii) Reason **(2 marks)**

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……

(c) Name the parts labeled **(3 marks)**

A.....

B .....

D.....

(d) How are the following structures adapted to their functions **(2 marks)**

D

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……

C

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……

(e) State the function of the parts labeled. **(2 marks)**

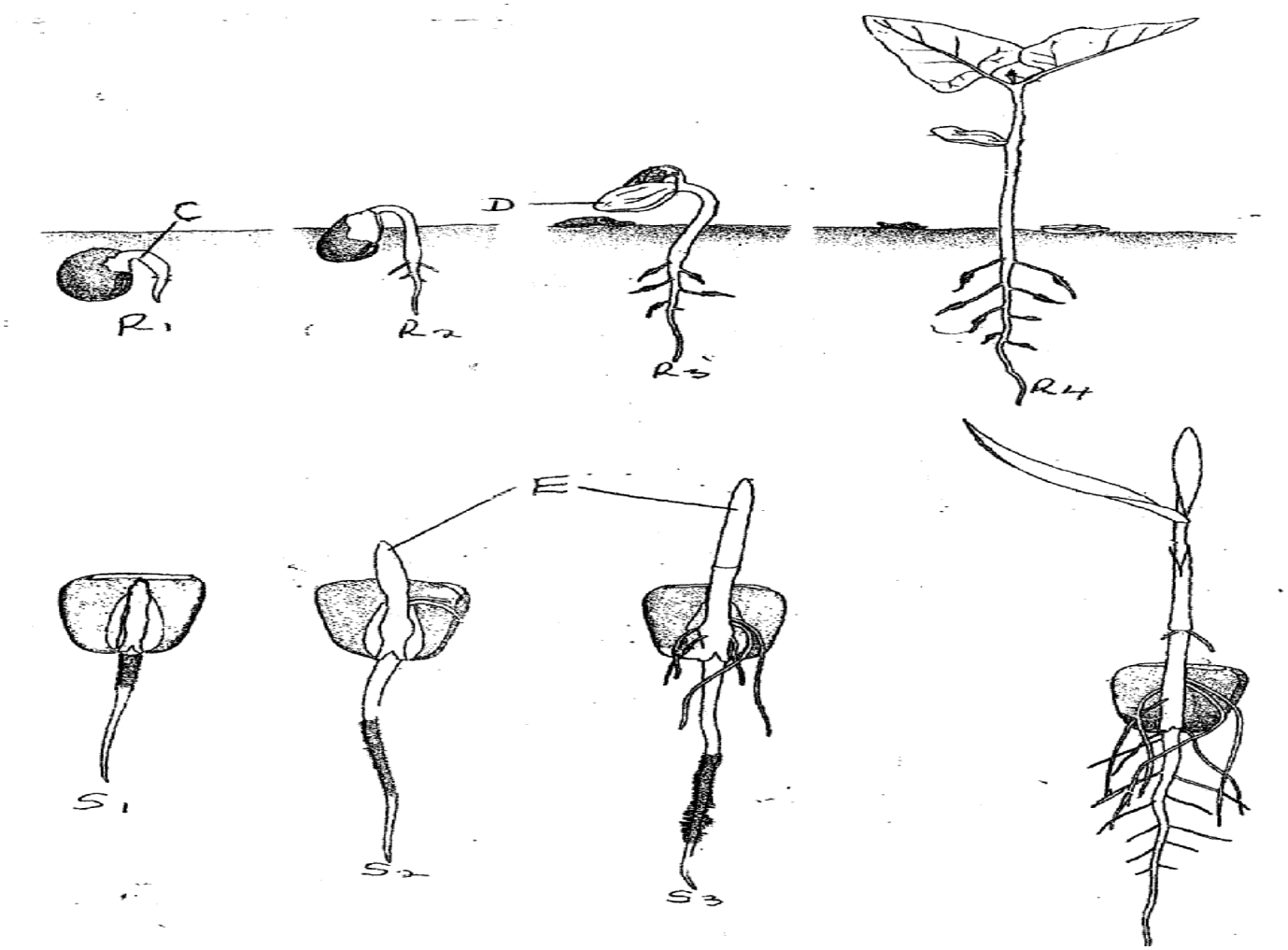
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(f) State **one** structural difference between Y and Z **(1 mark)**

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3. Examine the seedling below and use them to answer the question that follow. Name the part labeled C,D, E and state their importance for the seedling.



C: **..... (1mk)**

Importance **(1mk)**

.....

.....

D. **..... (1mk)**

Importance **(1mks)**

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(ii) E..... (lmk)

Importance. (lmk)

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(b) The R series of seedlings on the roots later in its life:

(i) What is the name of the swelling: (lmk)

.....

(ii) Name the organisms that would be found in the swellings (1mk)

.....

(iii) Explain the relationship that exists between the named organisms and the plant. (1mks)

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.....(c)

(i) State the types of germination exhibited by R series of the seedlings. (1mk)

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(ii) Give a reason for your answer in (c) (i) above. (1mk)

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(d) State any two external factors necessary for germination. (2mks)

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FOR KCSE RESOURCES &MARKING SCHEMES CONTACT 0746 222 000

KCSE PREMOCK EXAMS

SERIES 001

NAME…… **INDEX NO……**

SCHOOL…… **SIGN……**

NAME: ……. **INDEX NO: …….**

SCHOOL: ……..…… **DATE : …….**

233/1

CHEMISTRY

PAPER 1

THEORY

TIME: 2 HOURS

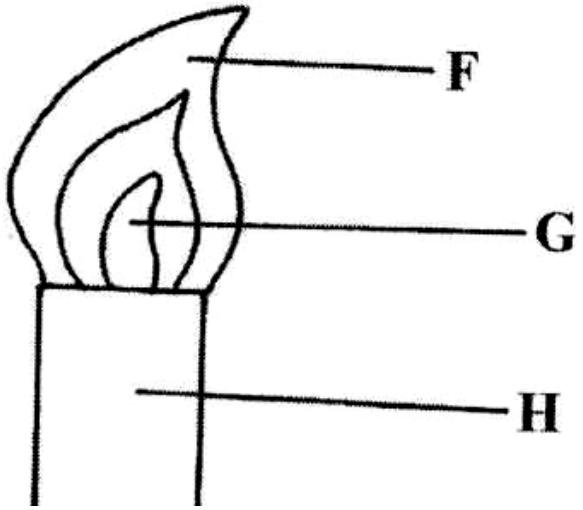
INSTRUCTIONS TO CANDIDATES

1) *Write your **Name**, **Index Number** and **School** in the spaces provided above.*
2) *Answer **all** the questions in the spaces provided after each question.*
3) ***KNEC** Mathematical tables and **silent non-programmable** electronic calculators may be used.*
4) ***ALL** working **must** be clearly shown where necessary.*
5) *Candidate should **check** the question paper to ascertain that **all** the pages are printed and that no questions are missing.*
6) *Candidates should answer the questions in **English**.*

FOR EXAMINER'S USE ONLY

QUESTIONS	MAX SCORE	CANDIDATE'S SCORE
1 – 29	80	

1. Study the figure below and answer questions that follow.



Name the parts labelled **F** and **G**. **(1mk)**

F:…….

G:…….

2. The table below gives information on four elements represented by K, L, M and N. Study it and answer the questions that follow. The letters do not represent the actual symbols of the elements.

Element	**Electron arrangement**	**Atomic radius**	**Ionic radius**
K	2, 8, 2	0.136	0.065
L	2, 8, 7	0.099	0.181
M	2, 8, 8, 1	0.203	0.133
N	2, 8, 8, 2	0.174	0.099

(a) Which **<u>two</u>** elements have similar chemical properties? Explain. **(2mks)**

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3. Describe how a solid sample of Lead (II) Chloride can be prepared using the following reagents: Dilute Nitric Acid, Dilute Hydrochloric Acid and Lead Carbonate. **(3mks)**

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4. $Na^{+}_{(g)} + Cl^{-}_{(g)} \longrightarrow NaCl_{(s)}$ $\Delta H_1 = -781KJmol^{-1}$

$H_2O_{(l)}$

$NaCl_{(s)} \longrightarrow Na^{+}_{(aq)} + Cl^{-}_{(aq)}$ $\Delta H_2 = +7KJmol^{-1}$

(a) What is the name of ΔH_1? **(1mk)**

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(b) Calculate the heat change for the process: **(2mks)**

$H_2O_{(l)}$

$Na^{+}_{(aq)} + Cl^{-}_{(aq)} \longrightarrow Na^{+}_{(aq)} + Cl^{-}_{(aq)}$

5. The table below gives the solubility of potassium bromide and potassium sulphate at 0^0C and 40^0C.

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

When an aqueous mixture containing 60g of potassium bromide and 7g potassium sulphate in 100g of water at 80^0C was cooled to 0^0C, some crystals were formed.

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

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(b) Determine the mass of the crystals. **(1mk)**

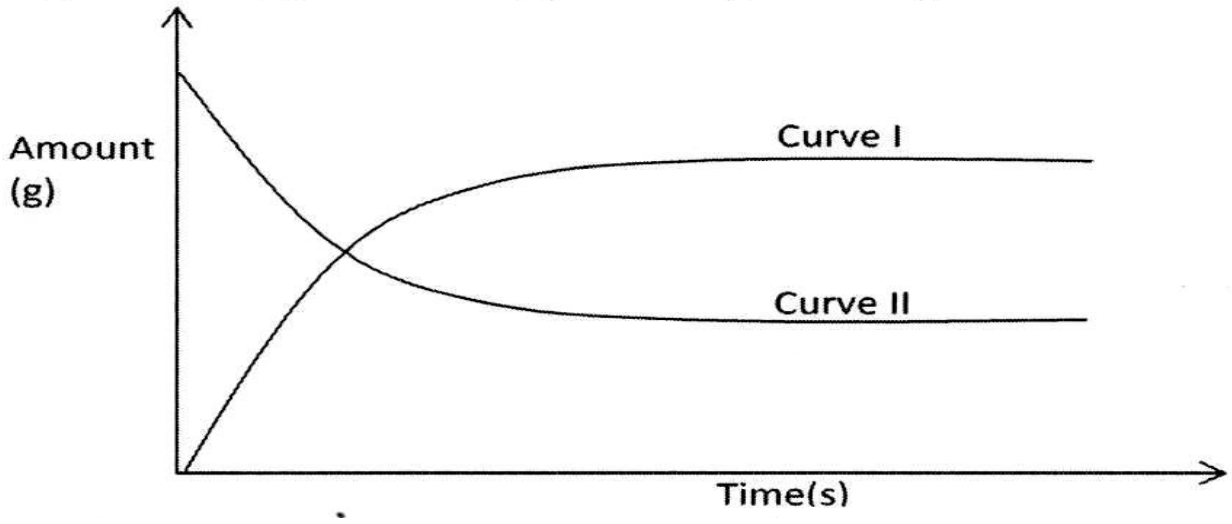
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6. The graph below shows the amount of calcium carbonate and calcium chloride varying with time in the reaction.

$CaCO_{3(s)} + 2HCl_{(aq)} \longrightarrow CaCl_{2(aq)} + H_2O + CO_{2(g)}$



(a) Which curve shows the amount of calcium chloride varying with time? **(1mk)**

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

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(c) Sketch on the graph, how curve II would appear if the experiment was repeated using a more dilute hydrochloric acid solution. **(1mk)**

7. $200cm^3$ of Nitrogen (I) Oxide (N_2O) pass through a porous plug in 2 minute 15 seconds. How long will it take the same volume of Sulphur (IV) Oxide (SO_2) gas to diffuse through the same plug under the same conditions? (N = 14, O = 16, S = 32) **(3mks)**

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8. An organic compound contains carbon and hydrogen only. When this compound was completely burnt in excess air, it gave 9.6g of Carbon (IV) Oxide and 4.9g of water vapour. The molecular

mass of the hydrocarbon is 58. Determine the molecular formula. (C = 12, O = 16, H = 1)

(3mks)

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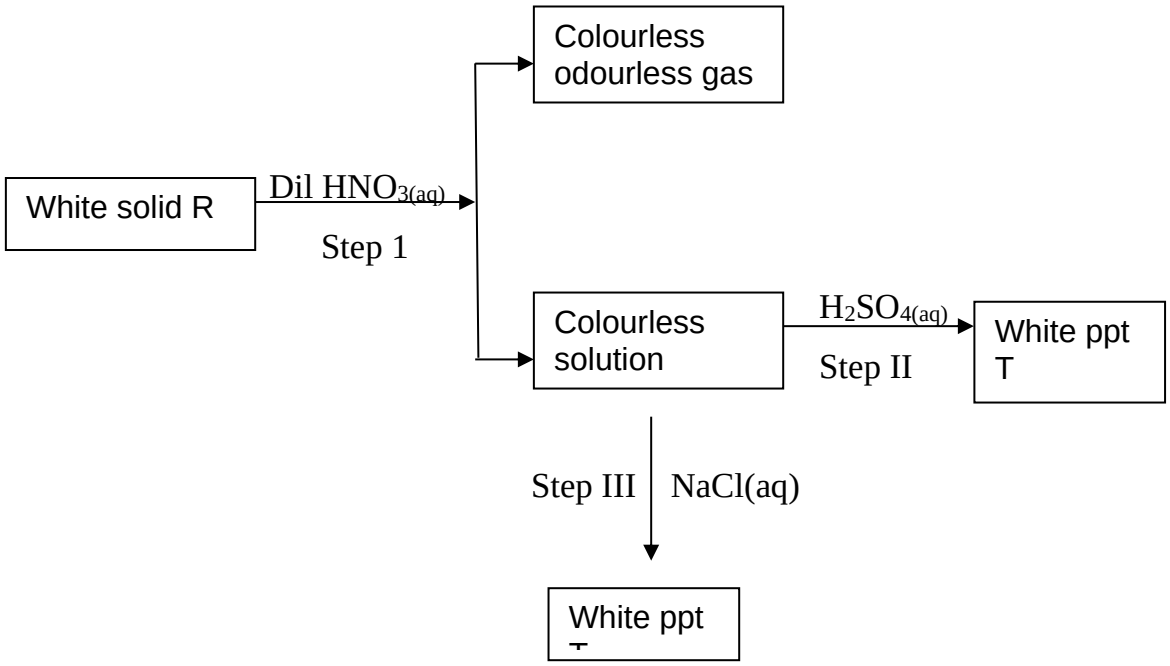
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9. Study the flow chart below and answer the questions that follow.



(a) Identify solid R. **(1mk)**

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(b) Write a balanced equation for step II and ionic equation for step III.

Step II

……**(1mk)**

Step III

……..

(1mk)

10. In an experiment to study properties of carbon, a small amount of charcoal is placed in a boiling tube. $5.0cm^3$ of concentrated nitric acid is added. The mixture is then heated.

(a) What observations are made? **(1mk)**

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(b) Write an equation for the reaction that took place in the boiling tube. **(1mk)**

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(c) What property of carbon is shown in this reaction? **(1mk)**

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11. Both diamond and graphite have giant atomic structures. Explain why diamond is hard while graphite is soft. **(2mks)**

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12. **(a)** Define the term oxidation state. **(1mk)**

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(b) Calculate the oxidation states of chromium and manganese in the following ions.

(2mks)

(i) Chromium in $Cr_2O_7^{2-}$

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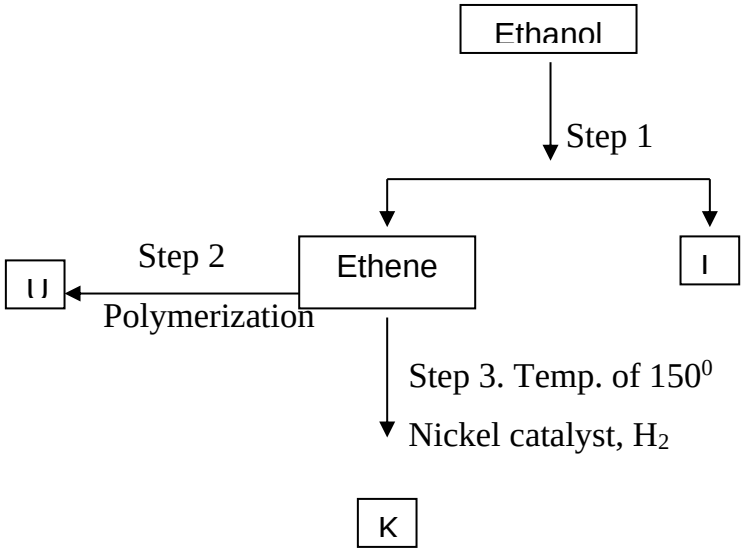
(ii) Manganese in MnO_4^-

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



(a) Identify substances:

K:…… **(½mk)**

U:…… **(½mk)**

L:…… **(½mk)**

(b) State the conditions for the reaction in step 1 to occur. **(2mks)**

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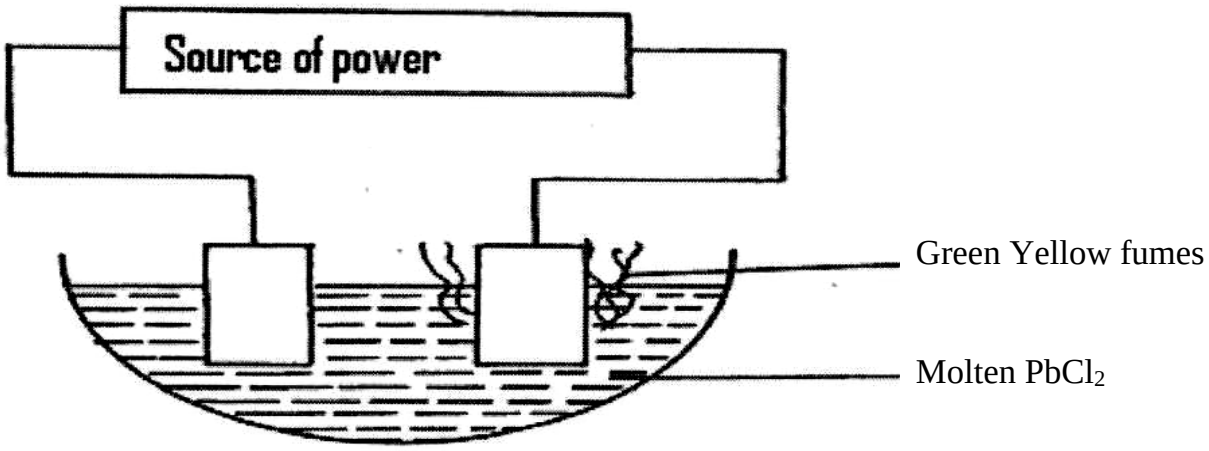
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(c) Give **one** disadvantage of continued use of substances such as U. **(½mk)**

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14. Use the set up below to answer the questions that follow.



(a) On the diagram, label the cathode. **(1mk)**

(b) Write the equation for the reaction on the cathode. **(1mk)**

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15. Use the bond energy value given below for the question that follows.

Bond	Bond energy ($kJmol^{-1}$)
H – H	432
C = C	610
C – C	346
C – H	413

Determine the enthalpy change for the conversion of butene to butane by hydrogen. **(3mks)**

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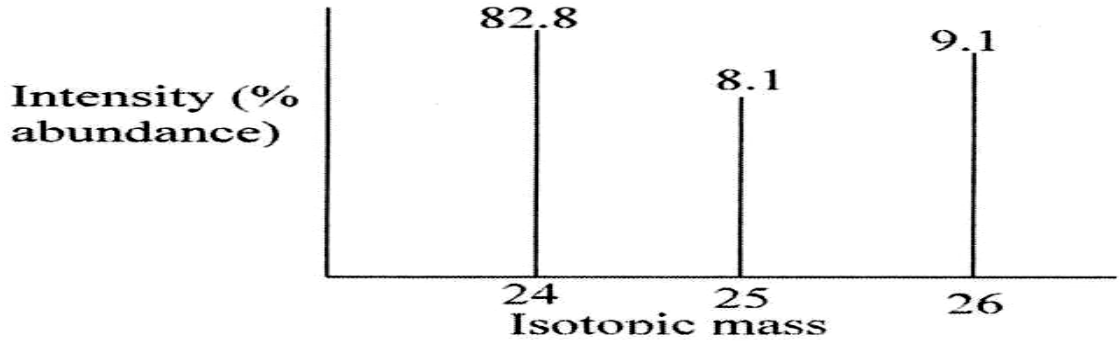
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16. The peaks below show the mass spectrum of element X.



Calculate the relative atomic mass of **X.** **(2mks)**

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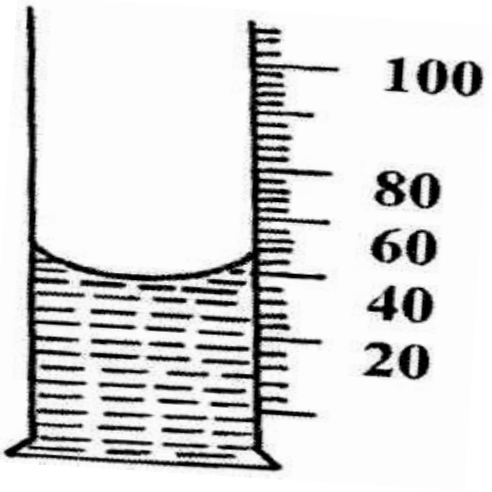
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17. In an experiment, concentrated sulphuric (VI) acid was put in a beaker and exposed to air for one week as shown below.



(i) What observation was made after one week? Explain. **(2mks)**

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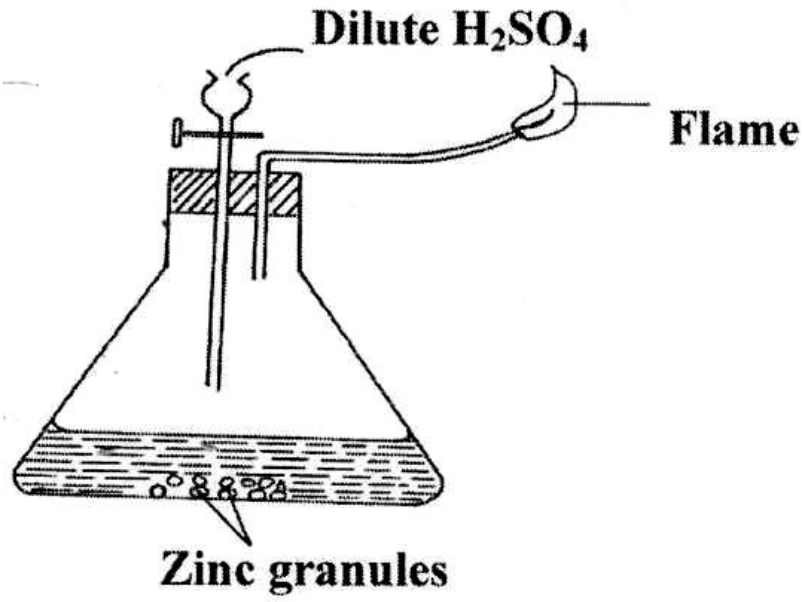
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(ii) What property of sulphuric (VI) acid was being investigated in the experiment? **(1mk)**

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18. Below is a set-up of apparatus used to prepare hydrogen gas in the laboratory. Study it and answer the questions that follow.



(a) Write a chemical equation for the two reactions taking place in he above set-up. **(2mks)**

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(b) State the chemical test for hydrogen gas. **(1mk)**

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19. State **three** reasons why air is considered to be a mixture but not a compound. **(3mks)**

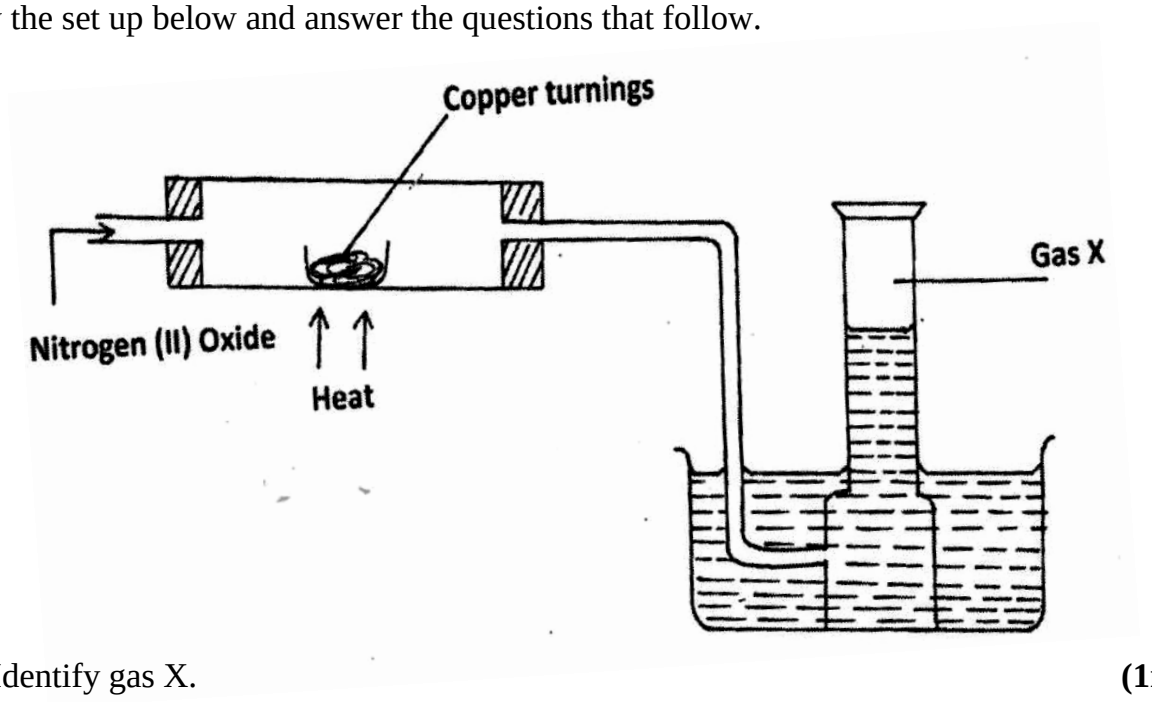
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20. Study the set up below and answer the questions that follow.



(a) Identify gas X. **(1mk)**

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(b) State the observation made in the combustion tube. **(1mk)**

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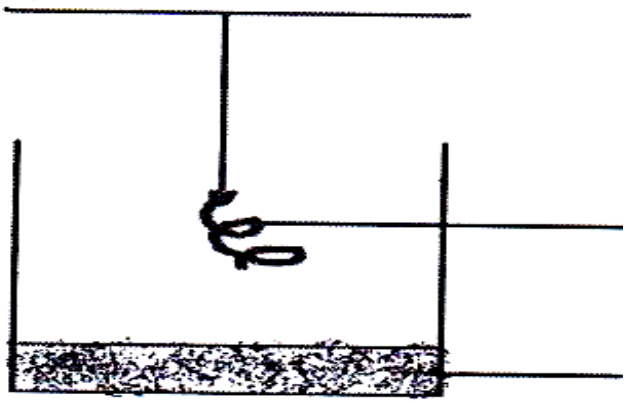
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(c) Write equation for the reaction in combustion tube. **(1mk)**

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21. The set-up below shows the catalytic oxidation of ammonia in the laboratory.



(a) State and explain the observation made. **(2mks)**

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(b) Write a chemical equation for the first reaction taking place in the beaker. **(1mk)**

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22. When sulphur is heated in a boiling tube in absence of air, the yellow crystals melts into golden yellow mobile liquid at 113^0C. The liquid changes at 180^0C into a dark brown very viscous liquid. More heating to about 400^0C, produces a brownless viscous liquid.

(a) Draw the molecular structure of sulphur in the yellow crystals. **(1mk)**

(b) Explain why the molten liquid becomes viscous. **(1mk)**

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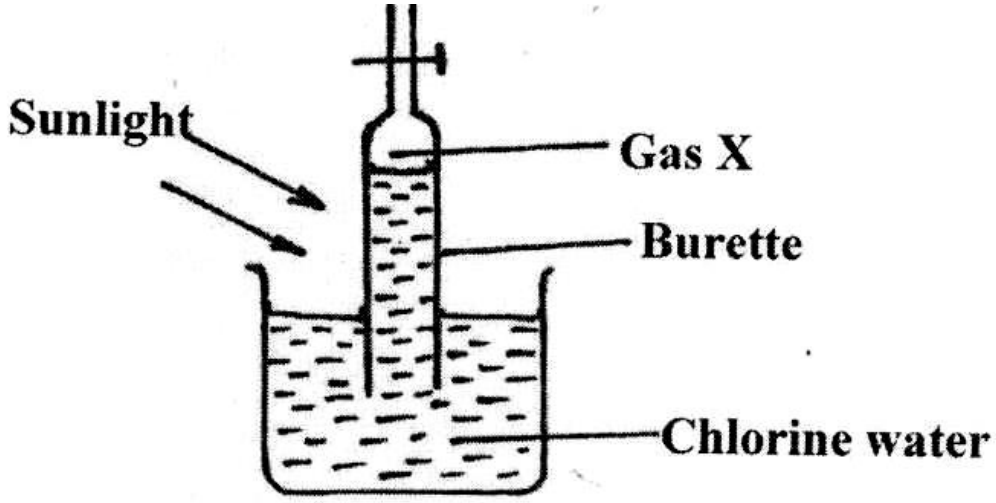
(c) If the brown liquid at 400^0C is cooled rapidly by pouring it into cold water, which form of sulphur is produced? **(1mk)**

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23. An experiment was set up using chlorine water as shown below.



(i) Identify gas X. **(1mk)**

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(ii) Write an equation for the production of gas X. **(2mks)**

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24. The 1st, 2nd and 3rd ionization energies in KJ/Mol of elements G and R are given below.

Element	**1st I.E**	**2nd I.E**	**3rd I.E**
G	520	7,300	9,500
R	420	3,100	4,800

(i) Define the term 1st ionization energy. **(1mk)**

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(ii) Apart from the decrease in energy levels, explain the big difference between the 1st and 2nd ionization energies. **(1mk)**

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(iii) Calculate the amount of energy for the process: **(1mk)**

$R_{(g)} \longrightarrow R^{3+}_{(g)} + 3e^-$

25. A gaseous compound consists of 86% carbon and 14% hydrogen by mass. At s.t.p. 3.2dm^3 of the compound had a mass of 6g. Calculate its molecular formula. (1 mole of a gas at s.t.p. = 22.4dm^3) **(3mks)**

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26. The table below shows the pH values of some solutions.

Solution	J	K	L	M	N
pH	6	13	2	10	7

(a) Which solution is likely to be:

(i) Potassium hydroxide **(1mk)**

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(ii) Lemon juice **(1mk)**

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(b) Explain why a solution of hydrogen chloride gas in methyl benzene was identified as N. **(1mk)**

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27. Using dots (•) and crosses (x) to represent electrons, show bonding in the compound formed when the following elements reacts. (N = 14, H = 1).

Nitrogen and Hydrogen. **(1mk)**

28. Some salts may be classified as double salts or basic salts. Trona with the formula $Na_2CO_3.NaHCO_3$ is an example of a double salt. An example of a basic salt is basic magnesium carbonate with formula $MgCO_3.Mg(OH)_2$.

(a) What is meant by a double salt? **(1mk)**

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(b) Write equations of reactions that occur when dilute hydrochloric acid is reacted with: **(2mks)**

(i) Trona

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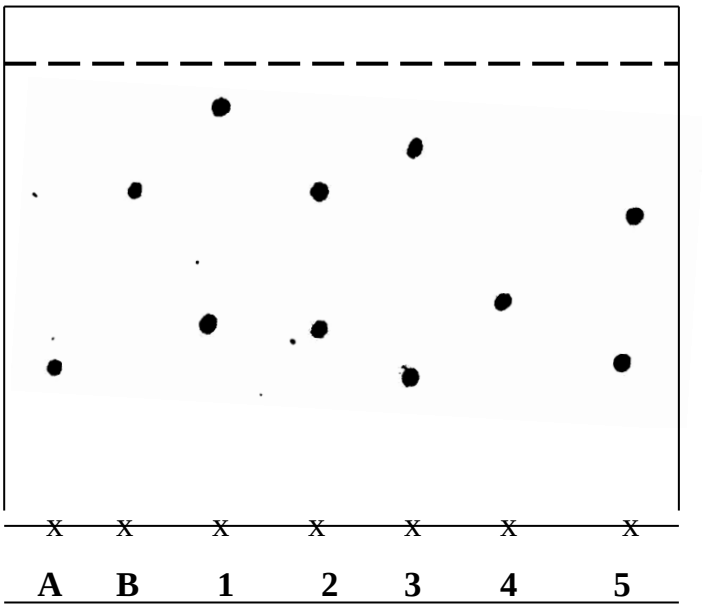
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(ii) Basic magnesium carbonate.

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29. During Olympics, urine sample of five short distance runners were taken and tested for the presence of two illegal steroids by paper chromatography. Methanol was used as the solvent. A chromatogram from the test appeared as shown below. Study the chromatogram and answer the questions that follow.



KEY

SPOT A – STEROID A

SPOT B – STEROID B

SPOT 1 – ATHLETE 1

SPOT 2 – ATHLETE 2

SPOT 3 – ATHLETE 3

SPOT 4 – ATHLETE 4

(a) Which of the two steroids is most likely to be more soluble in methanol? Give a reason. **(1mk)**

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(b) Identify the athletes that tested positive for the illegal steroids. **(2mks)**

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KCSE PREMOCK EXAMS

SERIES 001

NAME…… **INDEX NO……**

SCHOOL…… **SIGN……**

233/2

CHEMISTRY

PAPER 2

THEORY

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES

1) Write your **Name, Index Number** and **School** in the spaces provided above.

2) Answer **all** the questions in the spaces provided after each question.

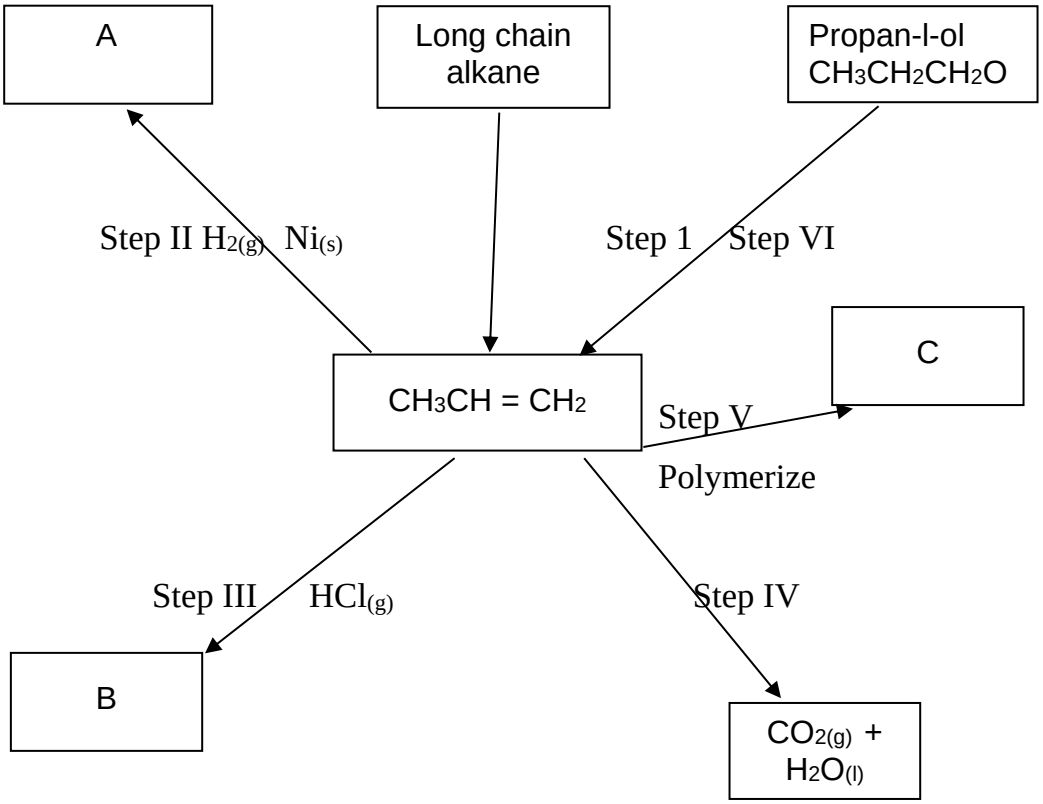
3) Mathematical tables and non-programmable electronic calculators may be used.

4) **ALL** working must be clearly shown where necessary.

FOR EXAMINER'S USE ONLY

QUESTIONS	MAX SCORE	CANDIDATE'S SCORE
1	10	
2	12	
3	12	
4	13	
5	11	
6	10	
7	12	
TOTAL	**80**	

1. (a) Study the flow chart below and answer the questions that follow.



(i) Name the process taking place in step (I). **(1mk)**

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(ii) Describe chemical test that can be carried out to show the identity of organic compound A.

(2mks)

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(iii) Give the name of the following: **(2mks)**

I. A:……

II. B:……

(iv) Give the structural formulae of substance C. **(1mk)**

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(v) Name the type of reaction that occurs in:

I. Step IV **(1mk)**

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II. Step

VI:……

(vi) Give the reagent and the condition necessary for step VI. **(1mk)**

Reagent:……

Condition:……

(b) Give the systematic names of the following compounds:

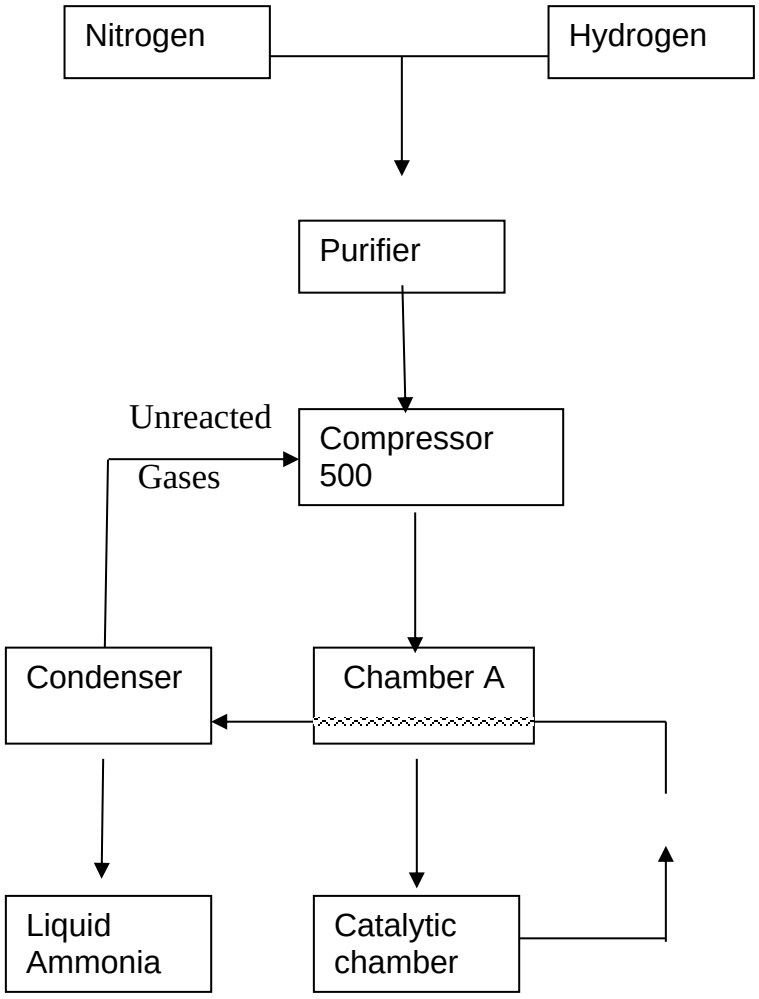
I. $CH_2CHCHCH_2CH_3$ **(1mk)**

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II. CH C C H_3 **(1mk)**

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2. The flow chart below shows the Haber process in the large scale manufacture of Ammonia gas. Use it to answer the questions that follow.



(a) Describe how nitrogen is obtained from air on a large scale. **(3mks)**

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(b) (i) Name **<u>one</u>** source of hydrogen gas used as a raw material in the above process. **(1mk)**

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(ii) Name chamber A. **(1mk)**

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(iii) Write an equation for the reaction taking place in the catalytic chamber. **(1mk)**

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(iv) In the Haber process optimum temperature of 500^0C and 200 atmospheres of pressure are used to get optimum yield of Ammonia. Why can't lower temperatures and higher pressure be used? **(2mks)**

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(c) Give **<u>two</u>** reasons why finely divided iron is the commonly used catalyst. **(1mk)**

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(d) State and explain the observation made when dry ammonia gas is passed over heated copper (II) Oxide in a combustion tube. **(2mks)**

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(e) Give **<u>two</u>** uses of ammonia gas. **(1mk)**

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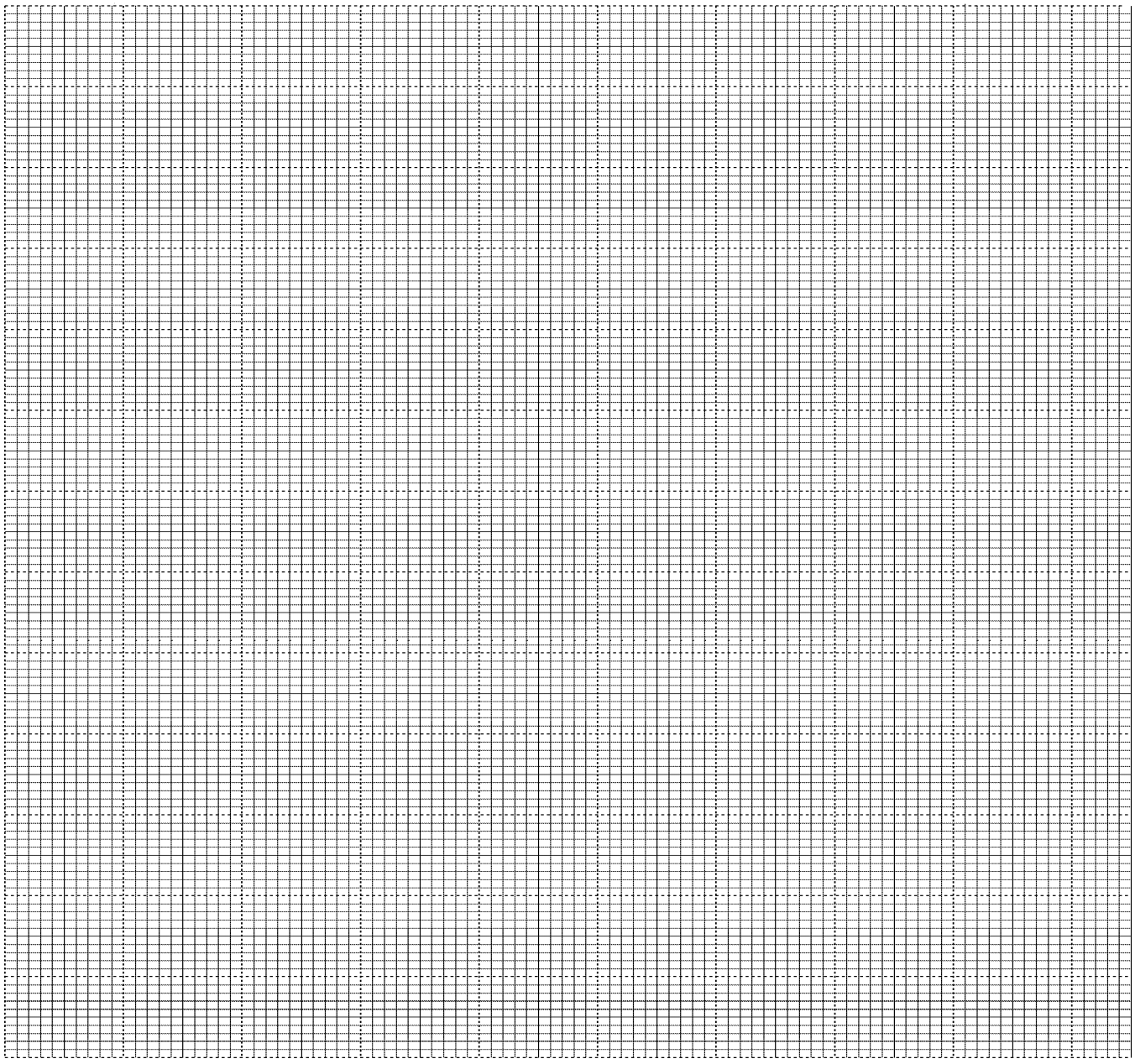
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3. (a) In a reaction to determine the rate of a reaction between magnesium ribbon and dilute hydrochloric acid 2g of magnesium ribbon were reacted with excess 2M hydrochloric acid. The volume of hydrogen gas evolved was recorded at regular intervals of one minute for eight minutes. The results are as shown in the table below.

Time (minutes)	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
Volume of Hydrogen gas (cm^3)	95	160	210	237.5	260	272.5	275	275

(i) Plot the graph of time in minutes on the horizontal axis against volume of hydrogen gas on the vertical axis. **(3mks)**



(ii) Name the factor that was investigated in this experiment. **(1mk)**

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(iii) Use the graph to determine the volume of hydrogen gas that was produced between 2¾ minute and 5.0 minutes. **(2mks)**

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(iv) Explain the shape of the graph between minutes 7.0 and 8.0. **(2mks)**

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(b) Hydrogen gas reacts with chlorine gas to form hydrogen chloride gas as shown in the equation below.

$H_{2(g)} + Cl_{(g)} \rightleftharpoons 2HCl_{(g)}$

(i) Explain the effect on the yield of $HCl_{(g)}$ by lowering the pressure for this reaction. **(2mks)**

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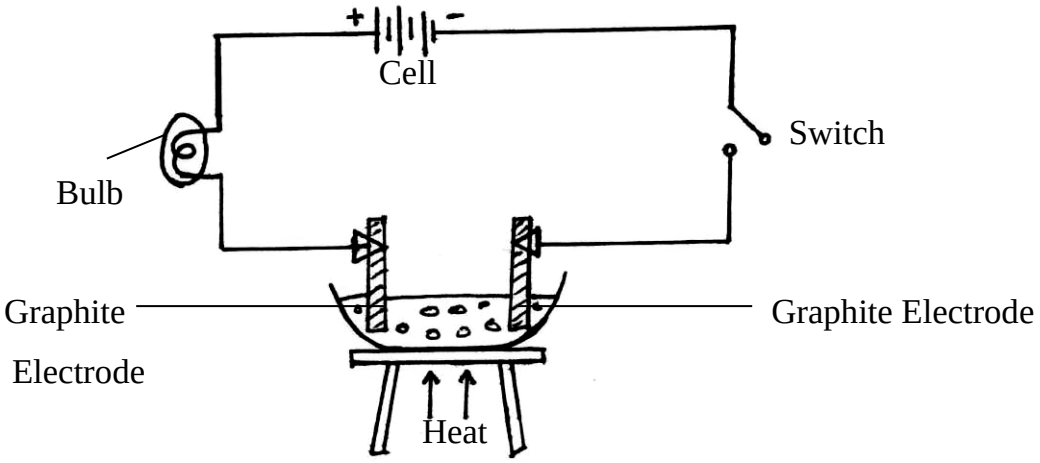
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(ii) Using a well labeled diagram, describe how a solution of hydrogen chloride can be prepared in the laboratory. **(2mks)**

4. The diagram below shows a set up which was used by student to investigate effect of electricity on solid Molten Lead (II) Bromide. Study it and answer the questions that follow.



(a) (i) State and explain the observation at the anode when the switch is switched on. **(2mks)**

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(ii) What precaution should be taken when carrying out this experiment? **(1mk)**

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(iii) Write the equation of the reaction taking place at the Anode. **(1mk)**

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(iv) Why are graphite electrodes used in the experiment? **(1mk)**

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(v) On the diagram, indicate the direction of flow of electrons.

(vi) The students noted that the bulb only produced light after the Lead (II) Bromide had melted. Explain this observation. **(2mks)**

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(b) State the difference in conduction of electric current between Molten Lead (II) Bromide and Lead Metal. **(1mk)**

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(c) Explain why it is not advisable to store Copper (II) Sulphate solution in a can made of Zinc metal **(2mks)**

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(d) State **<u>two</u>** applications of electrolysis. **(1mk)**

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5. (a) What is meant by molar heat of solution? **(1mk)**

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(b) The enthalpies of combustion of carbon, and carbon (II) oxide are indicated below.

$C_{(s)} + O_{2(g)} \longrightarrow CO_{2(g)}$: DH = 393 KJ mol^{-1}

$CO_{(g)} + O_{2(g)} \longrightarrow CO_{2(g)}$: DH = 283 KJ mol^{-1}

(i) Draw an energy level diagram that links the enthalpy of formation of Carbon (II) Oxide to enthalpies of combustion of carbon and Carbon (II) Oxide. **(2mks)**

(ii) Determine the enthalpy of formation of Carbon (II) Oxide. **(2mks)**

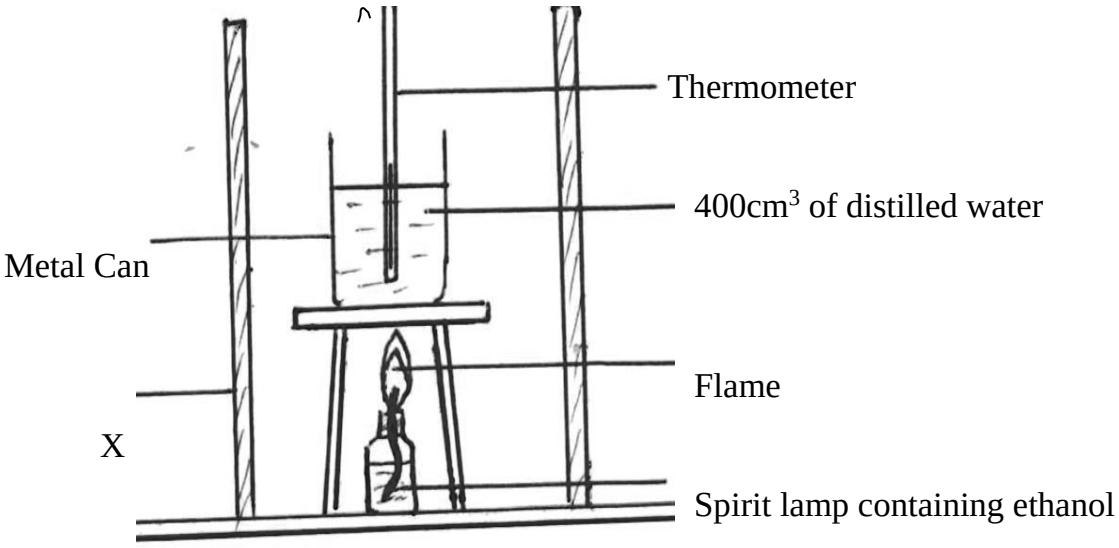
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(c) The set up below was used by a student to determine the enthalpy of combustion of ethanol (CH_3CH_2OH). Study it and answer the questions that follow.



The following data was collected from the experiment:

Initial temperature of water	12^0C
Final temperature of water	22^0C
Initial mass of spirit lamp	11.42g
Final mass of spirit lamp	10.50g
Specific heat capacity of water	$4.20Jg^{-1}k^{-1}$

(i) What is the function of the part labeled X. **(1mk)**

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(ii) Using the data above, calculate the change in heat of combustion of ethanol, assuming density of water is $1g/cm^3$. **(2mks)**

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(iii) Calculate the molar heat of combustion of Ethanol (C = 12, O = 16, H = 1) **(2mks)**

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(iv) Find the heating value of ethanol. **(2mks)**

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(d) Give **<u>two</u>** precautions necessary when using fuels. **(1mk)**

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6. (a) Starting with a solid sample of calcium carbonate, describe how a pure dry sample of calcium sulphate can be prepared in the laboratory. **(3mks)**

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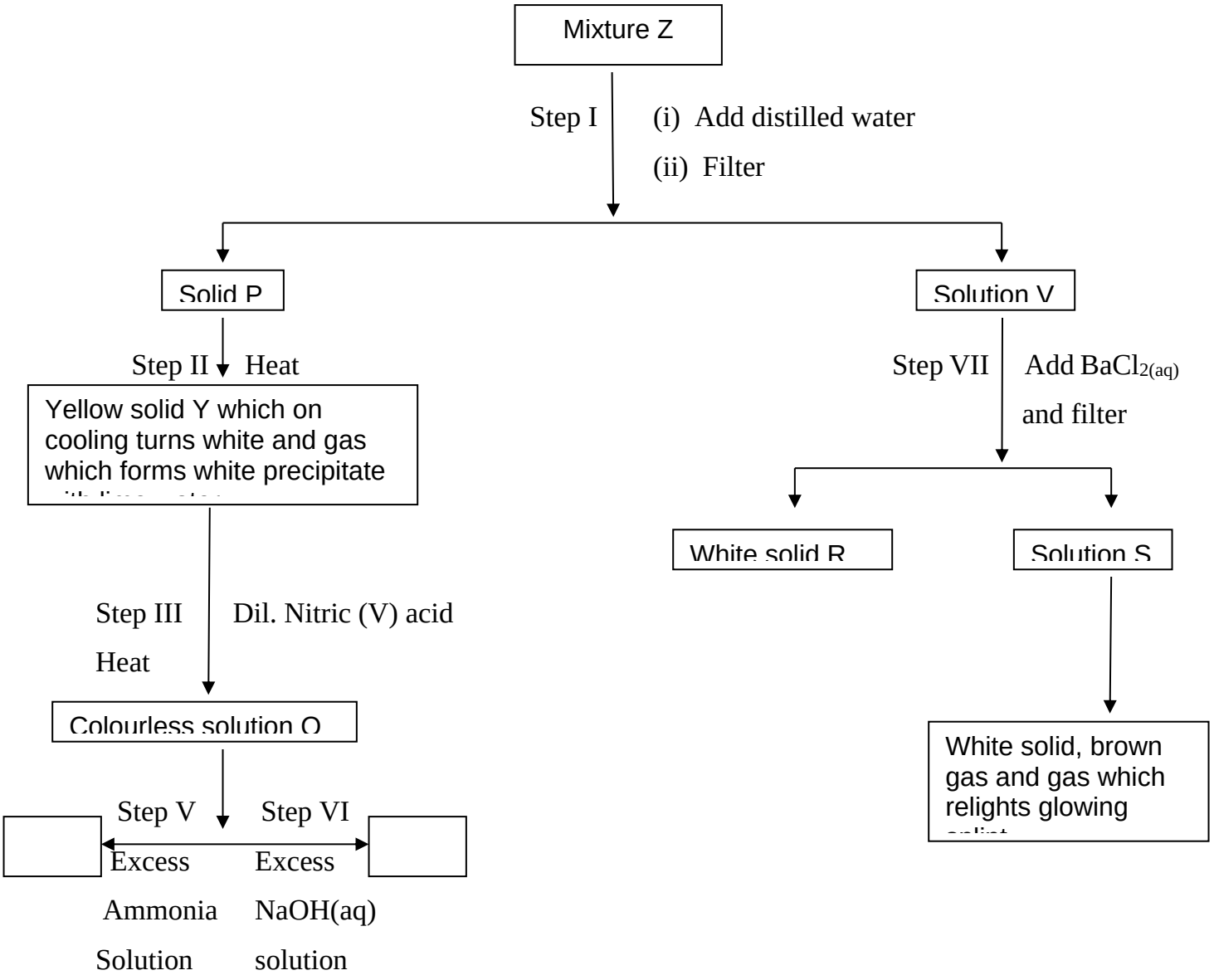
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(b) The flow chart below shows a sequence of reactions involving a mixture of two salts, mixture **Z.** Study it and answer the questions that follow.



Write the formulae of the two salts present in mixture Z. **(2mks)**

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(c) Write an ionic equation for the reaction in step VII. **(1mk)**

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(d) State and explain the observation in Step (V) and (VI). **(3mks)**

(i) Step (V)

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(ii) Step (VI)

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(e) Write an equation showing the effect of heating a sample of anhydrous copper (II) suphate in a test tube. **(1mk)**

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7. The grid below forms part of the Periodic Table. Use it to answer the questions that follow.

The letters do not represent the actual symbols of element.

A				C	M	D	E	F
	B		H	I		J	K	
	G							

(a) (i) What name is given to the group of elements where B and G belong? **(1mk)**

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(ii) Select a letter which represents an element that gain electrons most readily. Give a reason for your answer. **(2mks)**

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(iii) Explain why the atomic radius of K is smaller than its ionic radius. **(2mks)**

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(iv) Using dots (•) and crosses(x) show the bonding between element G and M.

(2mks)

(v) A carbonate of element G react with dilute sulphuric (VI) acid at s.t.p to produce $0.4dm^3$ of gas. Determine the mass of G which was reacted with the acid. (Molar gas volume at s.t.p is $22.4dm^3$. (Relative atomic mass of G = 24 and C = 12, O = 16) **(2mks)**

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(b) Explain why sodium chloride has melting point of 1074^0C whereas silicon tetrachloride has a melting point of 203^0C under the same conditions. **(2mks)**

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KCSE PREMOCK EXAMS

SERIES 001

NAME…… **INDEX NO……**

SCHOOL…… **SIGN……**

233/3

CHEMISTRY

PRACTICALS

CONFIDENTIAL INSTRUCTIONS TO SCHOOLS

Each candidate will require the following in addition to the apparatus and fittings in a Chemistry Laboratory:-

1. $100cm^2$ of solution Q.

2. Accurately weighed 0.4g of hydrated euthanedioic acid – Solution T.

3. One burette – 50ml.

4. One pipette – 25ml.

5. One pipette filler.

6. One 250ml volumetric flask.

7. One thermometer – 10^0C – 110^0C.

8. One boiling tube.

9. Six test-tubes in a rack.

10. One metallic spatula.

11. $400cm^2$ of distilled water.

12. Means of labeling.

13. About 1g of $NaHCO_3$ – Solid A.

14. $5cm^3$ of solution D.

15. About 1g of solid R.

16. Bunsen burner.

Access to:-

1) 2M aqueous ammonia solution supplied with a dropper.

2) Phenolphthalein indicator supplied with a dropper.

3) 0.5M KI solution.

4) 2M HCL

5) 2M NaOH

6) Zinc granules.

7) Acidified $KMnO_4$ supplied with a dropper.

8) Acidified $K_2Cr_2O_7$ supplied with a dropper.

9) Solution D is a mixture of $Pb(NO_3)_2$ and $Cu(NO_3)_2$

10) Solid R is a maleic acid.

KCSE PREMOCK EXAMS

SERIES 001

NAME…… **INDEX NO……**

SCHOOL…… **SIGN……**

233/3

CHEMISTRY

PAPER 3

PRACTICAL

TIME: 2 ¼ HOURS

INSTRUCTIONS TO CANDIDATES

1) Write your **Name, Index Number** and **School** in the spaces provided above.

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

3) You are **not allowed** to start working with the apparatus for the **first 15 minutes** of the 2¼ hours allowed for this paper. This time is to enable you to **read** the **question paper** and make sure you have **all** the **apparatus** and **chemicals** that you may need.

4) **ALL** working must be clearly shown.

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

FOR EXAMINER'S USE ONLY

QUESTIONS	MAX SCORE	CANDITATE'S SCORE
1	22	
2	18	
TOTAL	**40**	

1. You are provided with:-

- 4.5g of solid P in a boiling tube.
- Solution Q, 0.2M sodium hydroxide.
- Phenolphthalein indicator.

You are required to determine:

(i) Solubility of solid **P** at different temperatures.

(ii) The value of **n** in the formula $(HX)_n \bullet 2H_2O$ of solid P.

Procedure I

(i) (a) Fill the burette with distilled water. Using the burette, add 4.0cm^3 of distilled water to solid P in

a boiling tube. Heat the mixture in a water bath while stirring with a thermometer to about 70^0C until all the solid dissolves.

(b) Allow the solution to cool while stirring with the thermometer and note the temperature at which crystals of solid P start to appear. Record this temperature in table I.

(c) Using the burette, add 2.0cm^3 of distilled water to the contents of the boiling tube. Heat the mixture while stirring with the thermometer until all the solid dissolves while in the water bath.

(d) Allow the mixture to cool while stirring and note the temperature at which crystals of solid P start to appear.

(e) Repeat the procedure (c) and (d) three more times, heating the solution in a water bath and record the temperature in the table I. ***Retain the contents of the boiling tube for use in procedure II.***

(ii) Complete the table by calculating the solubility of solid P at the different temperatures. (The solubility of substance is the mass of that substance that dissolves in 100cm^3 (100gm) of water at a particular temperature.

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TABLE I

Volume of water in boiling tube (cm^3)	**Temperatures at which crystals of solid P first appear (^0C)**	**Solubility of solid P (g/100g) of water**
4		
6		
8		
10		
12		

(6mks)

(i) On the grid provided, plot a graph of solubility P against temperature. **(3mks)**

Attached is a graph paper

(ii) Using your graph, determine the temperature at which 100g of solid P would dissolve in $100cm^3$ of water. **(1mk)**

(iii) Determine the solubility of solid P at 55^0C. **(1mk)**

Procedure II

- Transfer the contents of the boiling tube from Procedure I into 250ml volumetric flask. Rinse the boiling tube and the thermometer with distilled water and add to the volumetric flask.
- Add more distilled water to make up the mark. Label this solution P.
- Fill the burette with solution P. Using a pipette and pipette filler place $25.0cm^3$ of solution Q into a conical flask.

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- Titrate solution Q with solution P using phenolphthalein indicator.

Table II

	I	II	III
Final burette reading cm^3			
Initial burette reading cm^3			
Volume of **P** used cm^3			

(4mks)

Calculate the:

(i) Average volume of solution P used in the experiment. **(1mk)**

(ii) Number of moles of sodium hydroxide used in solution Q. **(2mks)**

(iii) Number of moles of solution P given that the relative formula mass of P, $(HX)_n \cdot 2H_2O$ is 126. **(2mks)**

(iv) The number of moles of sodium hydroxide required to react with one mole of P. Hence find the value of n in the formula $(HX)_n \cdot 2H_2O$. **(2mks)**

2. You are provided with solid **W** and solution **K**. You are required to carry out the tests prescribed in solid **W** and solution **K**. Write your observation and inferences accordingly.

(a) Place all solid **W** in a boiling tube.

(i) Add about $10cm^3$ of distilled water to solid W, and shake.

Observations	**Inference**
(1mk)	**(1mk)**

(ii) Divide the product in (i) into four equal portions. Add 5 drops of 2M sodium hydroxide solution to the first portion.

Observation	**Inference**
(1mk)	**(1mk)**

(iii) Add 2 – 3 drops of lead (II) nitrate solution to the second portion.

Observation	**Inference**
(1mk)	**(1mk)**

(iv) To the third portion, add 2 – 3 drops of barium (II) chloride provided followed by 5 drops of 2M hydrochloric acid. Shake the mixture well.

Observation	Inferences
(1mk)	**(1mk)**

(v) Add 5 drops of acidified potassium chromate (VI) to the fourth portion.

Observation	Inferences
(1mk)	**(1mk)**

(b)

(i) To about $2cm^3$ of solution K, add few drops of sodium hydroxide till in excess.

Observation	Inference
(1mk)	**(1mk)**

(ii) To about $2cm^3$ of solution K, add 2 – 3 drops of Barium chloride solution.

Observation	Inference

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

(I) To about $2cm^3$ of solution K, add $2cm^3$ of bromine water provided.

Observation	Inference

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

(II) To about $2cm^3$ of solution K, add 2 – 3 drops of lead (II) nitrate solution.

Observation	Inferences

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

KCSE PREMOCK EXAMS

SERIES 001

NAME…… **INDEX NO……**

SCHOOL…… **SIGN……**

232/1

PHYSICS

Paper 1

2 hours

Instructions To Candidates

- ***a)*** *Write your **name, admission number** and **class** in the spaces provided above.*
- ***b)*** ***Sign and write the date** of examination in the spaces provided above.*
- ***c)*** *This paper consists of **TWO** sections: **A** and **B**.*
- ***d)*** *Answer **ALL** the questions in sections **A** and **B** in the spaces provided.*
- ***e)*** ***ALL** working **MUST** be clearly shown.*
- ***f)*** *Non-programmable silent electronic calculators and KNEC mathematical tables may be used.*

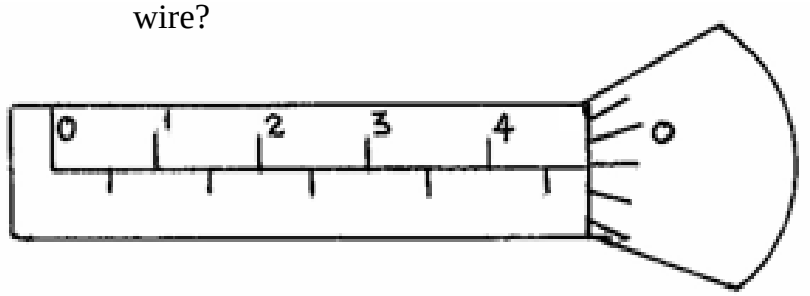
For Examiner's Use Only

Section	Question	Maximum Score	Candidate's Score
A	1 – 8	25	
B	9	09	
	10	12	
	11	10	
	12	10	
	13	07	
	14	07	
	Total Score	80	

SECTION A (25 MARKS)

Answer all questions in this section in the spaces provided:

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)**

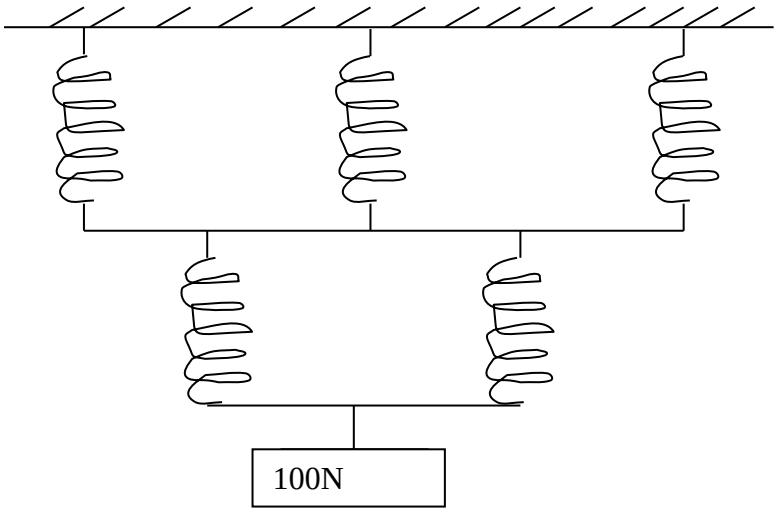


2. (a). State two differences between heat transfer by convection and radiation **(2mks)**

(b). Give a reason why a thick glass bottle cracks when boiling hot water is suddenly poured inside it **(1mk)**

3. An aircraft 300m from the ground, travelling horizontally at 400 m/s releases a parcel. Calculate the horizontal distance covered by the parcel from the point of release. (Ignore air resistance) **(2mks)**

4. A single spring stretches by 2.0 cm when supporting a load of 50N. If in the system below the springs are identical and have negligible weight;



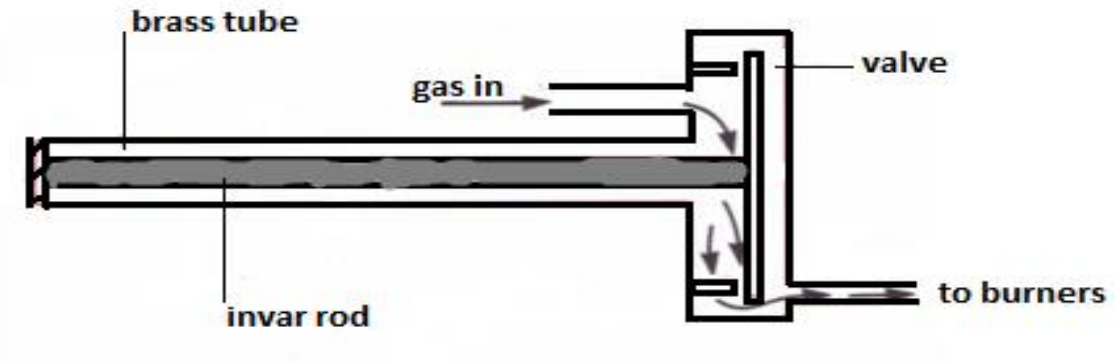
Find:

a) The total extension of the system. **(2mks)**

b)The total spring constant. **(2mks)**

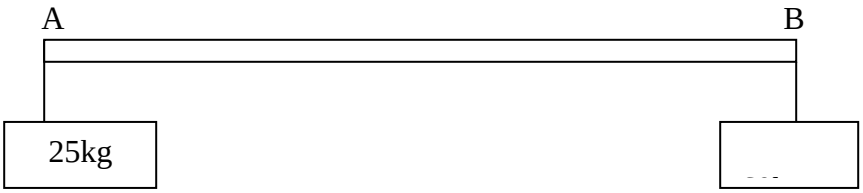
5. (a) The distance between the ice point and steam point on a liquid in glass thermometer is 30cm. what temperature is recorded when the mercury thread is 12cm above the ice point? **(2mks)**

b) The diagram below shows a gas cooker thermostat



Briefly explain how the thermostat works **(3mks)**

6. The figure below shows a uniform plank AB of length 10m weighing 500N. Two masses measuring 25kg and 60kg are loaded on its ends.



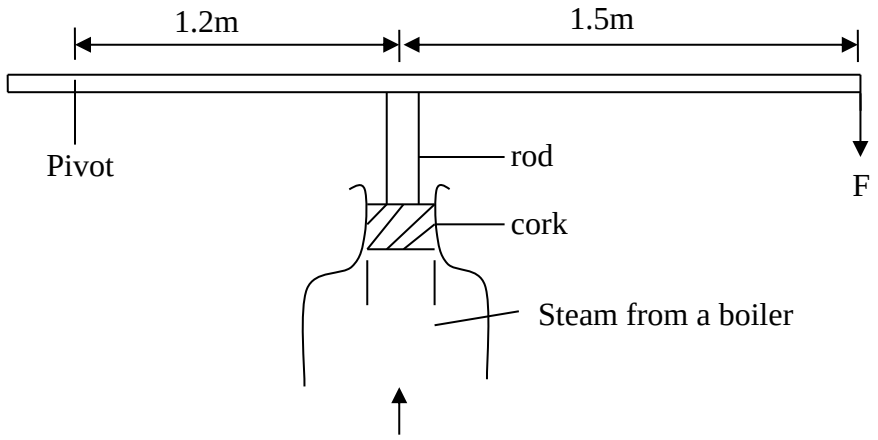
Determine the distance from point A where a support should be placed for the plank to balance horizontally. **(3mks)**

7. In an experiment to determine the thickness of an oil molecule, an oil drop of volume 3.60 x 10^{-6} m^3 was observed to form a circular patch of diameter 0.016m on the surface of water covered with lycopodium powder

i). Explain why the oil drop forms a circular patch. **(1mks)**

ii) Determine the thickness of the oil molecule **(2mks)**

8. A cork enclosing steam in a boiler is held down by the system shown.



If the area of the cork is 15 cm^2 and a force (F) of 500N is needed to keep the cork in place, determine the pressure of the steam in the boiler. **(3mks)**

SECTION B

Answer all questions in this section in the spaces provided:

9. (a) An electric crane lifts a load of 2000kg through a vertical distance of 3.0m in 6s. Determine:

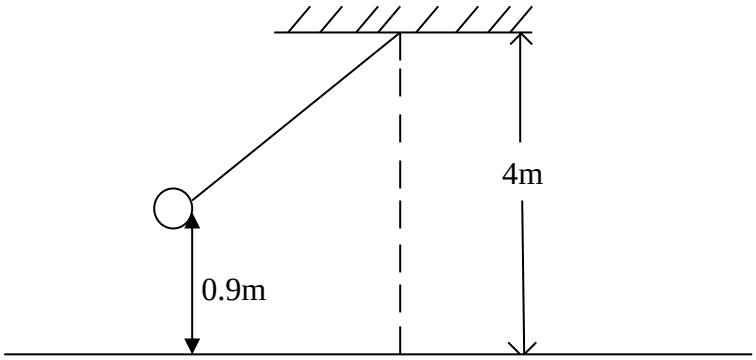
i) Work done **(1mk)**

ii) Power developed by the crane **(2mks)**

iii) Efficiency of the crane if it is operated by an electric motor rated 12.5 Kw

(2mks)

b) A bob of mass 20kg is suspended using a string of 4m from a support and swings through a vertical height of 0.9m as shown below:



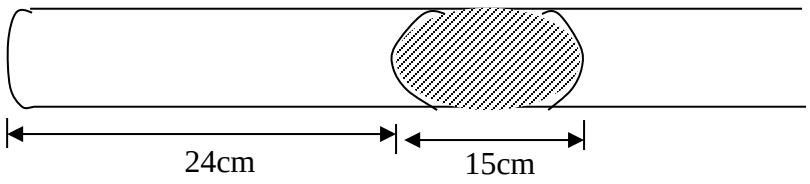
Determine:

i) The potential energy of the body at its position. **(2mks)**

ii) Speed of the body when passing through the lowest point. **(2mks)**

FOR KCSE RESOURCES &MARKING SCHEMES CONTACT 0746 222 000

10. (a) A glass capillary contains enclosed air by a thread of mercury 15cm long when the tube is horizontal, the length of the enclosed air column 24cm as shown.



i) What is the length of the enclosed air column when the tube is vertical with the open end uppermost if the atmosphere pressure is 750mmHg? **(2mks)**

ii) Explain why the mercury does not run out when the tube is vertical with the closed end uppermost. **(1mk)**

b) Explain why an air bubble increase in volume as it rises from the bottom of a lake to the surface. **(1mk)**

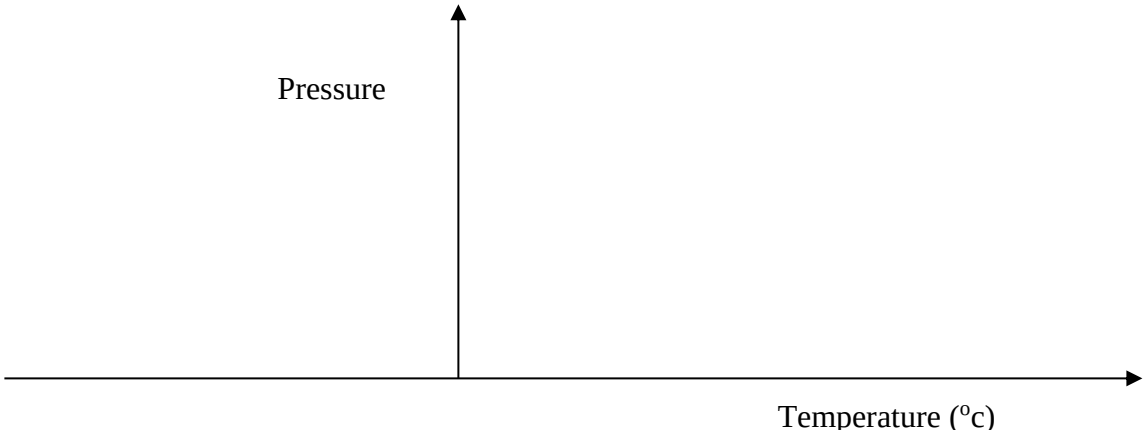
c) When an inflated balloon is placed in a refrigerator it is noted that its volume reduces, use the kinetic theory of gases to explain this observation. **(2mks)**

d) A certain mass of hydrogen gas occupies a volume of $1.6m^3$ at a pressure of 1.5×10^5 Pa and a temperature of 22^0c. Determine the volume when the temperature is 0^0c at a pressure of 0.8×10^5 Pa. **(3mks)**

e) i)State the pressure law **(1mk)**

ii)On the axis provided, sketch a graph of pressure against temperature on the celcius scale. On the same axis sketch another graph for a gas of a larger volume.

(2mks)



11 (a) in a hydraulic press, a force of 200N is applied to a master piston of area $25cm^2$. If the press is designed to produce a force of 5000N, determine the area of the slave piston.

(2mks)

(b) The barometric height in a town is 70cmHg. Given that the standard atmospheric pressure is 76cmHg and the density of mercury is $13600kg/m^3$, determine the altitude of the town. (density of air is $1.25kg/m^3$) **(3mks)**

(c) In an experiment to determine atmospheric pressure, a plastic bottle is partially filled with hot water and the bottle is then tightly corked. After some time the bottle starts to get deformed.

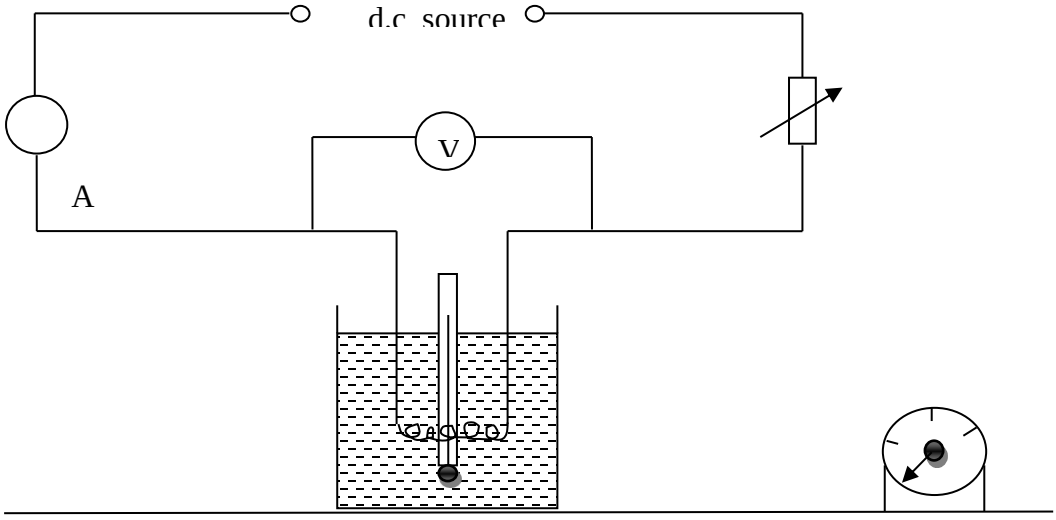
(i) State the purpose of the hot water. **(1mk)**

(ii) State the reason why the bottle gets deformed. **(2mks)**

(d) A hole of area $2.0cm^2$ at the bottom of a tank 5m deep is closed with a cork. Determine the force on the cork when the tank is filled with sea water of density $1.2g/cm^3$. **(2mks)**

12. (a) Define specific latent heat of vaporization **(1mk)**

b) The illustration below is used to produce a measured rise in temperature of a liquid using electrical energy.



Explain why;

(i) The liquid will tend to be warmer at the top of the container than at the bottom.

(1mk)

(ii) The temperature will eventually stop rising even though the current is still passing through the heating coil. **(1mk)**

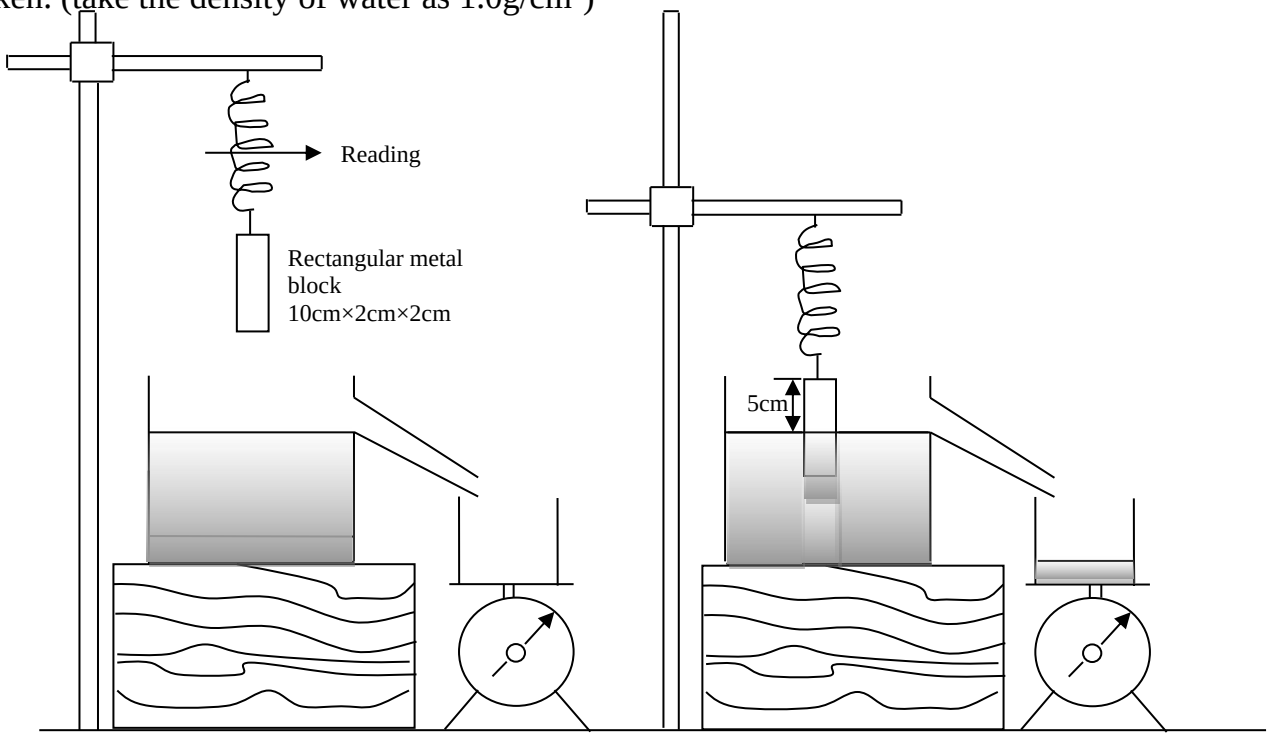
iii) if the apparatus is used to determine the specific heat capacity of the liquid, the accuracy of the experiment will be increased if the liquid is first cooled to about 5^oc below room temperature and the current passed until the temperature is about 5^oc above room temperature. **(2mk)**

(c). A 50W heating coil is totally immersed in100g of water contained in an insulated flask of negligible heat capacity. The initial temperature of water in the flask is 20^oc.

(i) Determine how long it takes for the water to boil at 100^oC when the heater is switched on **(2mks)**

(ii) After the water has been boiling for 15 minutes, it is found that the mass of water in the flask has decreased to 80g. Assuming no external heat losses, calculate a value for the specific latent heat of vaporization of water **(3mks)**

13. (a) The figure below shows details of an experiment performed by a student and the results taken. (take the density of water as $1.0g/cm^3$)



Compression balance reading

i) Calculate the volume of the metal block below the water **(1mk)**

ii) Calculate the new reading on the compression balance after the block is halfway immersed **(2mks)**

iii) Calculate the reading you would expect to obtain on the spring balance **(2mks)**

iv) Give a statement of the principle you have used in part (iii) above **(1mk)**

b). Explain why the narrow stem of a hydrometer provides greater sensitivity than a wide one **(1mk)**

14 (a) (i) A car goes round a flat circular bend whose radius is 100m at a constant speed of 30m/s. Calculate its acceleration **(2mks)**

(ii) if the mass of the car is 1500kg, calculate the frictional force required to provide this acceleration. **(2mks)**

(b) (i) Calculate the maximum speed at which the car can go round the bend without skidding if the coefficient of friction between the tyres and the ground is 0.5. **(2mks)**

(ii) Give a reason why the driver of the car has to move through the same bend at a lower speed during a rainy day. **(1mk)**

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KCSE PREMOCK EXAMS

SERIES 001

NAME…… **INDEX NO……**

SCHOOL…… **SIGN……**

232/2

PHYSICS

Paper 2

2 hours

INSTRUCTIONS TO CANDIDATES

- ***(a)*** *Write your* ***name, index no*** *and* ***class*** *in the spaces provided above.*
- ***(b)*** ***Sign and write the date*** *of examination in the spaces provided above.*
- ***(c)*** *This paper consists of* ***TWO*** *sections:* ***A*** *and* ***B****.*
- ***(d)*** *Answer* ***ALL*** *the questions in sections* ***A*** *and* ***B*** *in the spaces provided.*
- ***(e)*** ***ALL*** *working* ***MUST*** *be clearly shown.*
- ***(f)*** *Non-programmable silent electronic calculators and KNEC mathematical tables may be used.*

For Examiner's Use Only

Section	Question	Maximum Score	Candidate's Score
A	1 – 8	25	
B	9	12	
	10	12	
	11	12	
	12	12	
	13	07	
	Total Score	80	

SECTION A (25 marks)

1. Describe the changes that can be observed during discharging process of a lead –acid accumulator **(2mks)**

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2. a) Define power of a lens and give its units **(2mks)**

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b) An object whose height is 24cm is placed 20cm in front of a diverging lens of focal length 20cm.

Determine the image distance **(3mks)**

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3. a) Give one property of sound waves **(1mk)**

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b) a person claps his hands at approximately 0.5s intervals in front of a wall 90m away. He notices that each echo produced by the wall coincides with the next clap.

i) Calculate the approximate speed of sound **(3mks)**

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ii) if the results obtained above were used as a basis for an experimental method to determine the speed of sound, what procedure should be adopted to obtain high accuracy in the timing part of the experiment? **(1mk)**

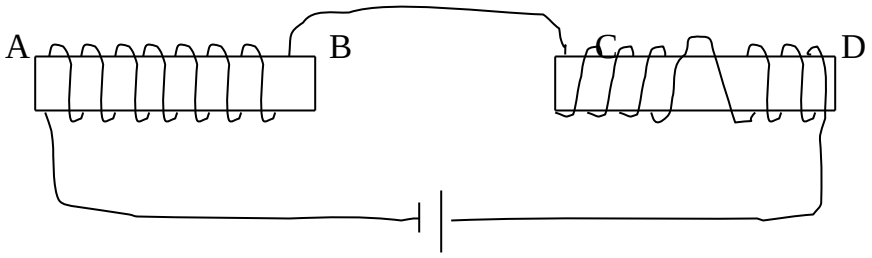
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4. Identify the magnetic poles A, B, C and D in the diagram below. **(2mks)**



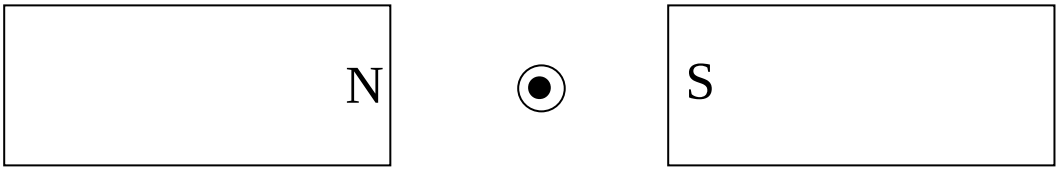
A ……

B ……

C ……

D ……

5. The diagram below shows a current carrying conductor placed in a magnetic field.



i)show on the diagram the direction of force on the conductor **(1mk)**

ii) if the current through the conductor is reduced, state and explain what happens to the force in (i) above. **(2mks)**

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6. Gamma, radio, infrared, x-rays are part of the electromagnetic spectrum.

i) Arrange these radiations in order of increasing energy **(1mk)**

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ii) State how radio waves are detected **(1mk)**

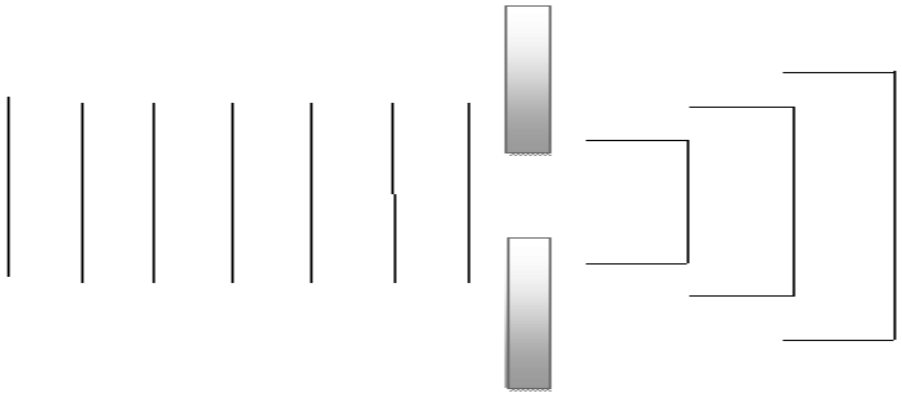
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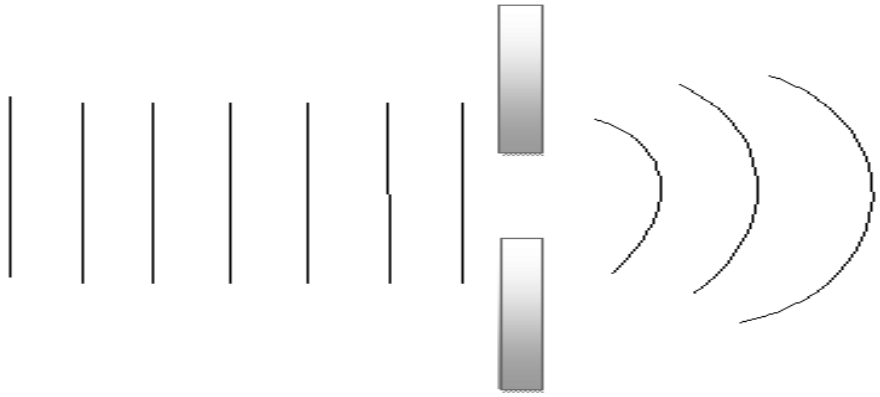
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7. The diagram below shows waves being diffracted.



What adjustments should be done to obtain the wave form below? **(2mks)**



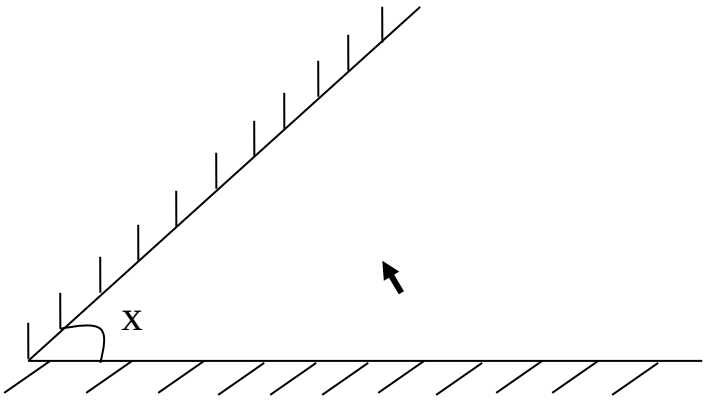
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8. The diagram below shows an object placed in front of two mirrors inclined to each other at an angle x



An observer sees five images, determine the value of angle x? **(2mks)**

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SECTION B (55 marks)

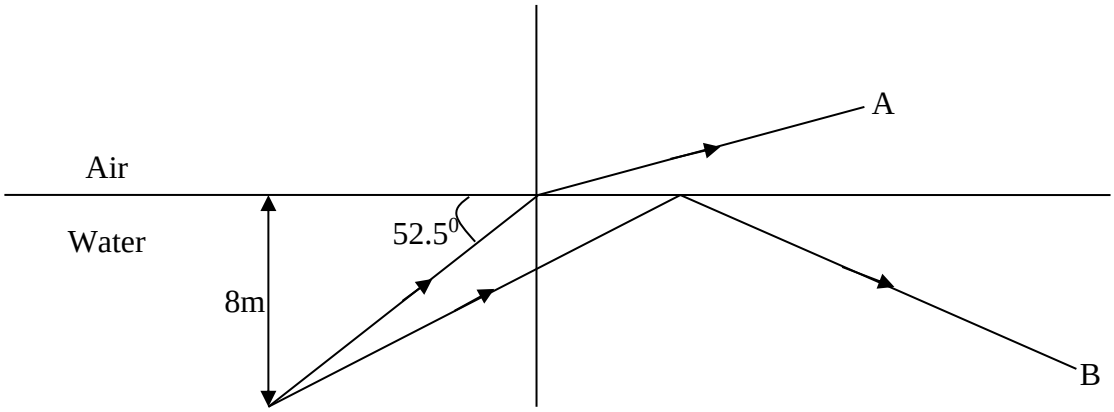
9. a) State Snell's law **(1mk)**

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b) The figure below shows a ray of light incident on a water-air interface from a source 8m deep.



i) Ray A is observed to bend as it enters the air. Give a reason why this occurs **(1mks)**

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ii) If the refractive index of water is 1.35, calculate the angle of refraction of ray A **(3mks)**

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iii) Find the critical angle of water **(3mks)**

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iv) Give a reason why ray B is not travelling out of water **(1mk)**

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v) a fish is placed at the source of light ray. Calculate the maximum area of view on the surface of water **(3mks)**

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10.a) Define local action **(1mk)**

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b) a charge of 4.8C flows through a lamp every second. Calculate the number of electrons involved per second. **(3mks)**

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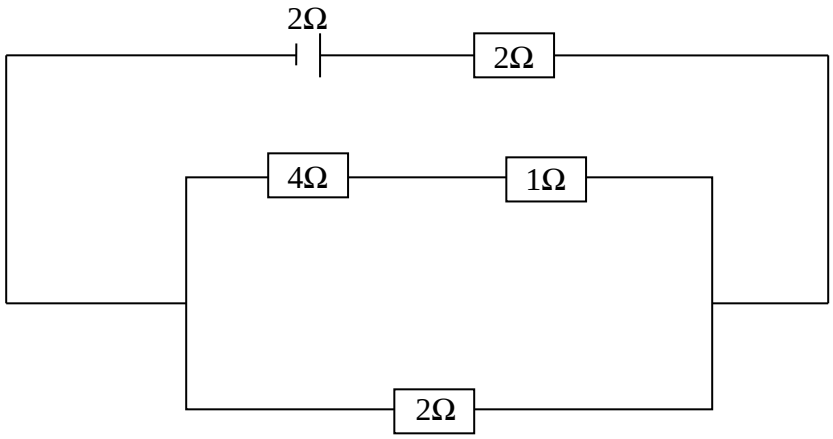
c) Give two differences between a primary and a secondary cell **(2mks)**

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d) The circuit set up shown below makes a current of 1A to flow through the 4Ω resistor



Calculate;

i) The current through the resistor **(3mks)**

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ii) the E.M.F of the cell given that the internal resistance is negligible **(3mks)**

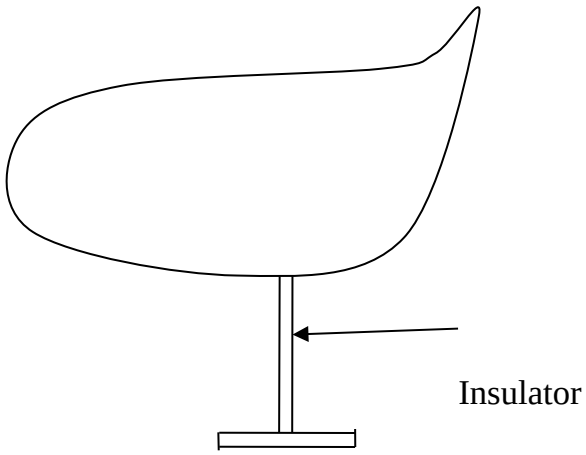
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11. Show the charge distribution on the hollow conductor shown below if it is positively charged. (1mk)



b. State three factors affecting capacitance of a parallel plate capacitor. **(3mks)**

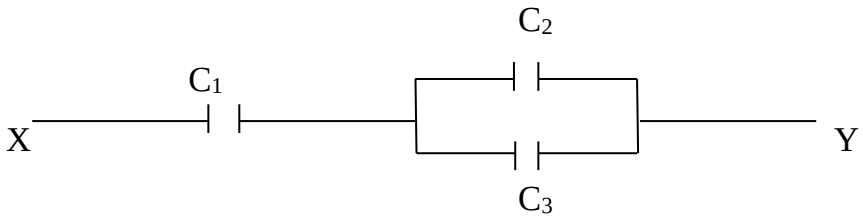
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c) The diagram below shows a circuit containing three capacitors.



i) Write an expression for effective capacitance between X and Y. **(2mks)**

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i) If c_1=6μF, c_2=4.5μF and c_3=5 μF, calculate the charge stored when point XY is connected in series with a battery of 6V **(3mks)**

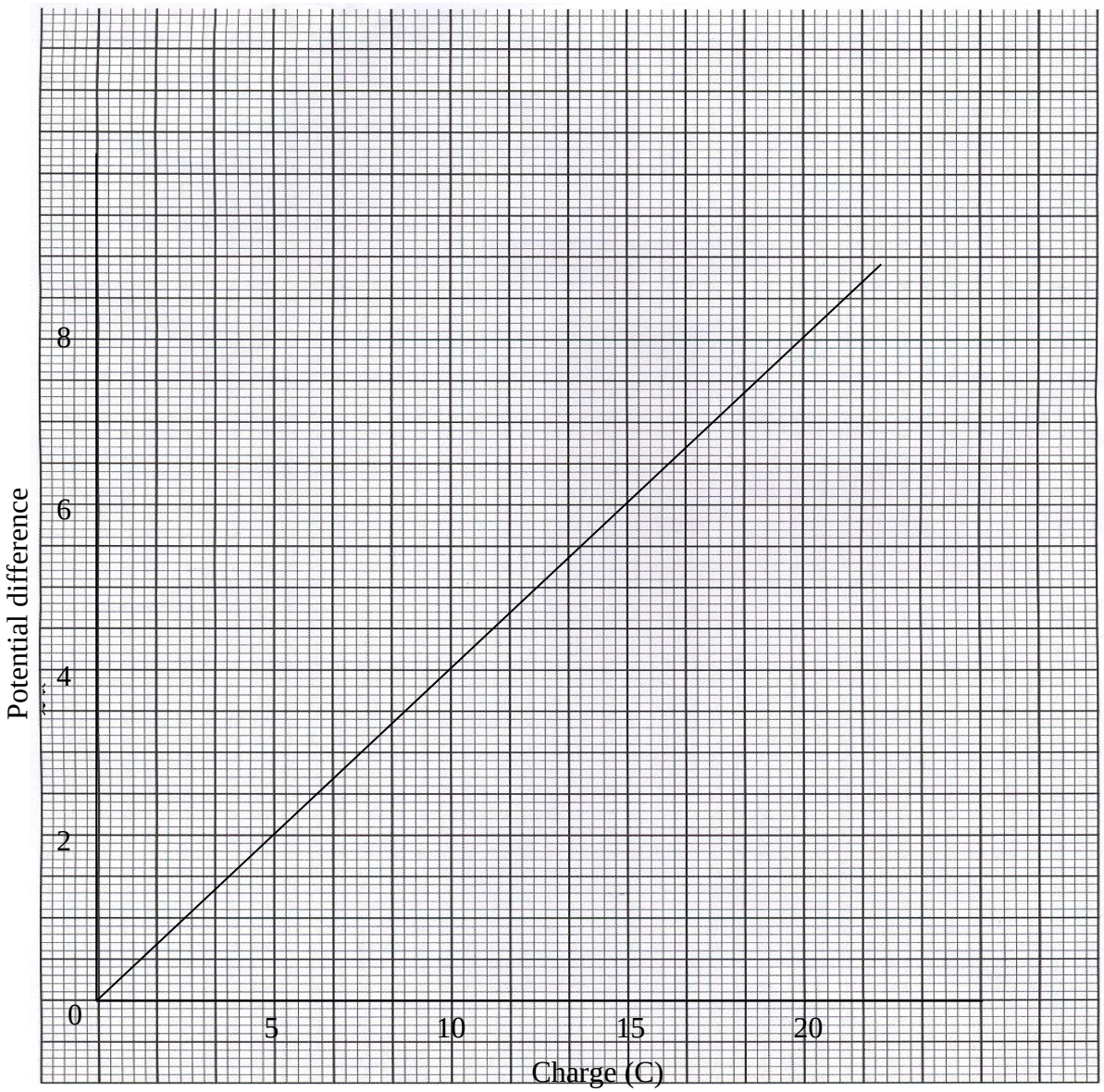
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d) The graph below shows the relationship between the voltage drop across a certain capacitor and the charge stored in the capacitor.



From the graph calculate the capacitance of the capacitor. (3mks)

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12. a) State two factors that determine the magnitude of an induced e.m.f in a conductor **(2mks)**

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(b) A Power station has an input of 30kw at a potential difference of 5kv.A transformer with

a secondary coil of 1000 turns is used to step down the voltage to 1000v for transmission along a grid .Assuming there are no power loses in the transformer .calculate.

(i) current in the primary coil **(3mks)**

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(ii) the number of turns in the primary coil **(3mks)**

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(iii) The current in the secondary coil **(2mks)**

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(iv) State which of the coils is thick and why **(2mks)**

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13.a) Define magnification **(1mk)**

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b) State two differences between a concave and a convex reflectors **(2mks)**

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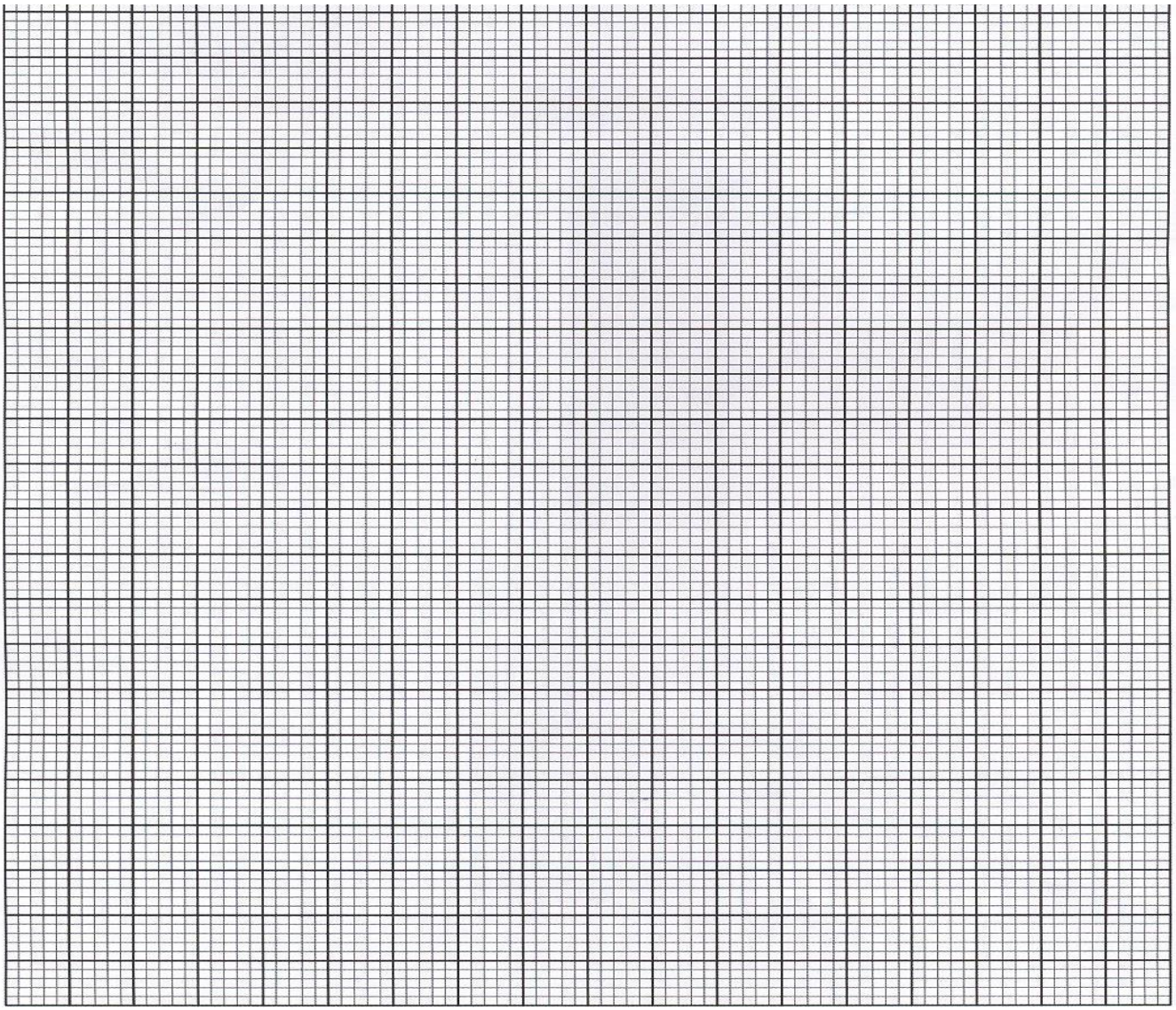
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c) a concave mirror of focal length 20 cm forms a real image three times the size of the object. If the object height is 4cm; determine, using graphical method, the:

(i)object distance **(3mks)**

(ii) The image distance **(1mk)**



KCSE PREMOCK EXAMS

SERIES 001

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PHYSICS PRACTICAL

CONFIDENTIAL

Question 1

Each candidate will require:

- ✓ A pendulum bob (50g mass)
- ✓ A piece of sewing thread (about 1.5m long)
- ✓ A stop watch
- ✓ A retort stand, clamp and boss
- ✓ Vernier calipers (to be shared)
- ✓ Beam balance (to be shared)
- ✓ Metre rule
- ✓ Two pieces of wood (2cm×3cm×5cm)

Question 2

Each candidate will require:

- ✓ A resistance wire (SWG 32- nichrome) mounted on a millimeter scale labeled PQ
- ✓ A switch
- ✓ A voltmeter (0 – 2.5V)
- ✓ An ammeter (0 –1.0 A)
- ✓ Two dry cells size D (NEW)
- ✓ Six connecting wires at least 3 with crocodile clips
- ✓ Cell holder.

FOR KCSE RESOURCES &MARKING SCHEMES CONTACT 0746 222 000

KCSE PREMOCK EXAMS

SERIES 001

NAME…… **INDEX NO……**

SCHOOL…… **SIGN……**

232/3

PHYSICS

PRACTICAL PAPER 3

TIME: 2 ½ HOURS

INSTRUCTIONS TO CANDIDATES

1. Write your name and Index number in the spaces provided above.
2. Sign and write the date of the examination in the spaces provided above.
3. You are supposed to spend the first 15 minutes of 2 ½ hours allowed for this paper reading the whole paper carefully.
4. Marks are given for a clear record of the observation actually made, their suitability, accuracy and the use made of them.

FOR EXAMINERS USE ONLY

Question 1

	a(i)	a(ii)	b(i)	b(ii)	e	f(i)	f(ii)	f(iii)	f(iv)	Total
Marks score	½	½	½	½	8	5	2	2	1	20
Candidates score										

Question 2

	B	D	E	f(i)	f(ii)	Total
Marks score	8	5	3	2	2	20
Candidates score						

1. You are provided with the following apparatus:

FOR KCSE RESOURCES &MARKING SCHEMES CONTACT 0746 222 000

- ✓ Pendulum bob
- ✓ Thread about (1.5 m)
- ✓ Stop watch
- ✓ Retort stand boss and clamp
- ✓ Vernier calipers
- ✓ Beam balance
- ✓ Two pieces of wood.

(a) Measure the diameter of the pendulum bob

(i) d = _____cm ½ mark

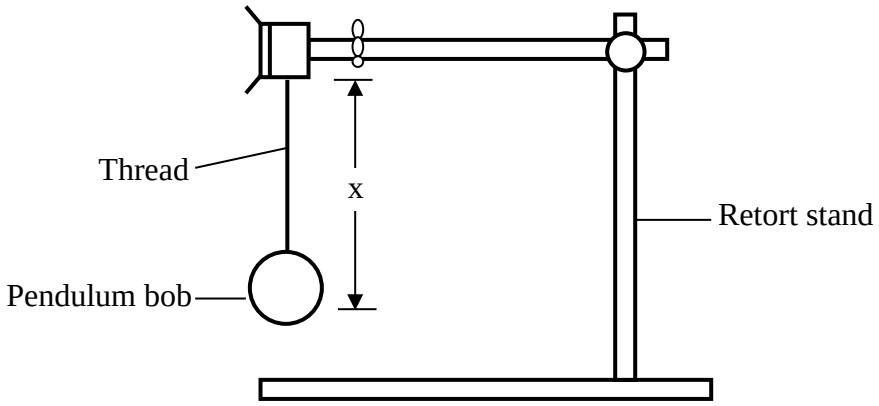
(ii) d = _____m ½ mark

(b) Determine the mass of the pendulum bob using a beam balance

i) Mass (m) = _____g ½ mark

ii) Mass (m) = _____kg ½ mark

(c) Set the apparatus as shown in the figure below.



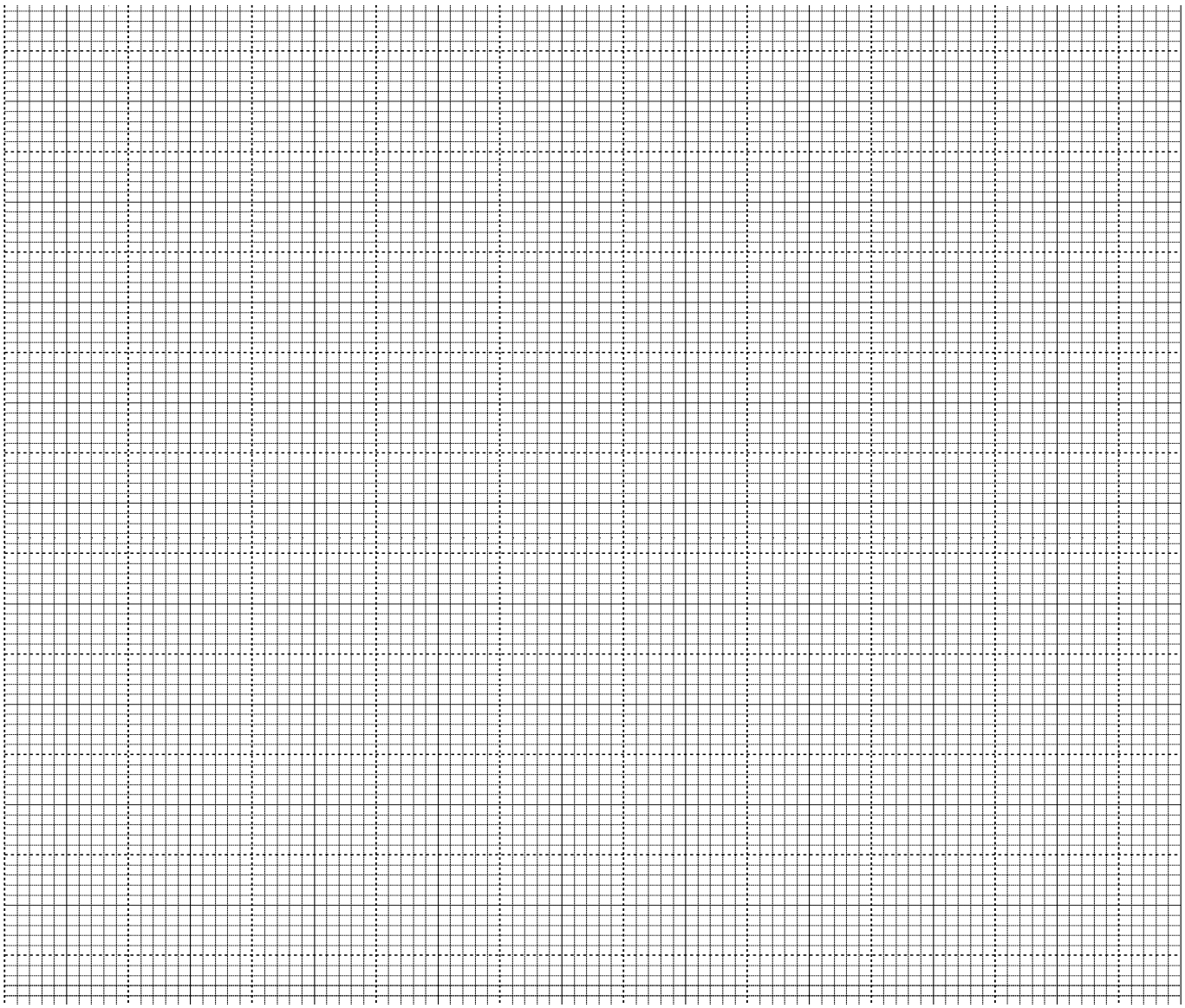
(d) Tie the pendulum bob to the thread provided. Measure the length of the thread to x = 1.0m and fix it as shown above. The pieces of wood should help hold thread firmly.

(e) Displace the pendulum bob through a small angle. Determine the time taken for it to make 20 complete oscillations. Repeat the procedure for other values of x as shown in the table below and record the corresponding time.

(8marks)

Length x (m)	Time for 20 oscillation(s)	Period T (s)	$T^2(S^2)$
0.30			
0.40			
0.50			
0.60			
0.70			
0.80			
0.90			
1.00			

(f) i) Plot the graph of $T^2(S^2)$ (y axis) against x **(5marks)**



ii) Calculate the slope, S of the graph **(2marks)**

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iii) The graph above is represented by the equation.

$T^2 = \frac{4\pi^2 x}{p}$

Calculate the value of P. **(2marks)**

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iv) Calculate the weight of the pendulum bob given that W = mp, w is weight of the bob. **(1mark)**

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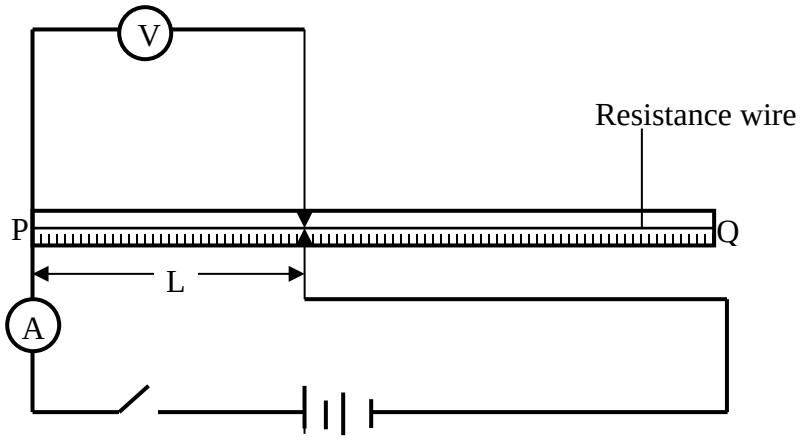
Question 2

You are provided with the following apparatus:

- An ammeter (0-1.0 A)
- A voltmeter (0-2.5V)
- A resistance wive PQ mounted on a mm scale
- Two new dry cells and a cell holder
- A switch
- Six connecting wire

Procedure:

a) Set up the apparatus as shown below



b) Starting with L = 0.2m, close the switch. Record the value of 1, the current through wire and V, the p.d across it. Enter your results in the table below.

(8marks)

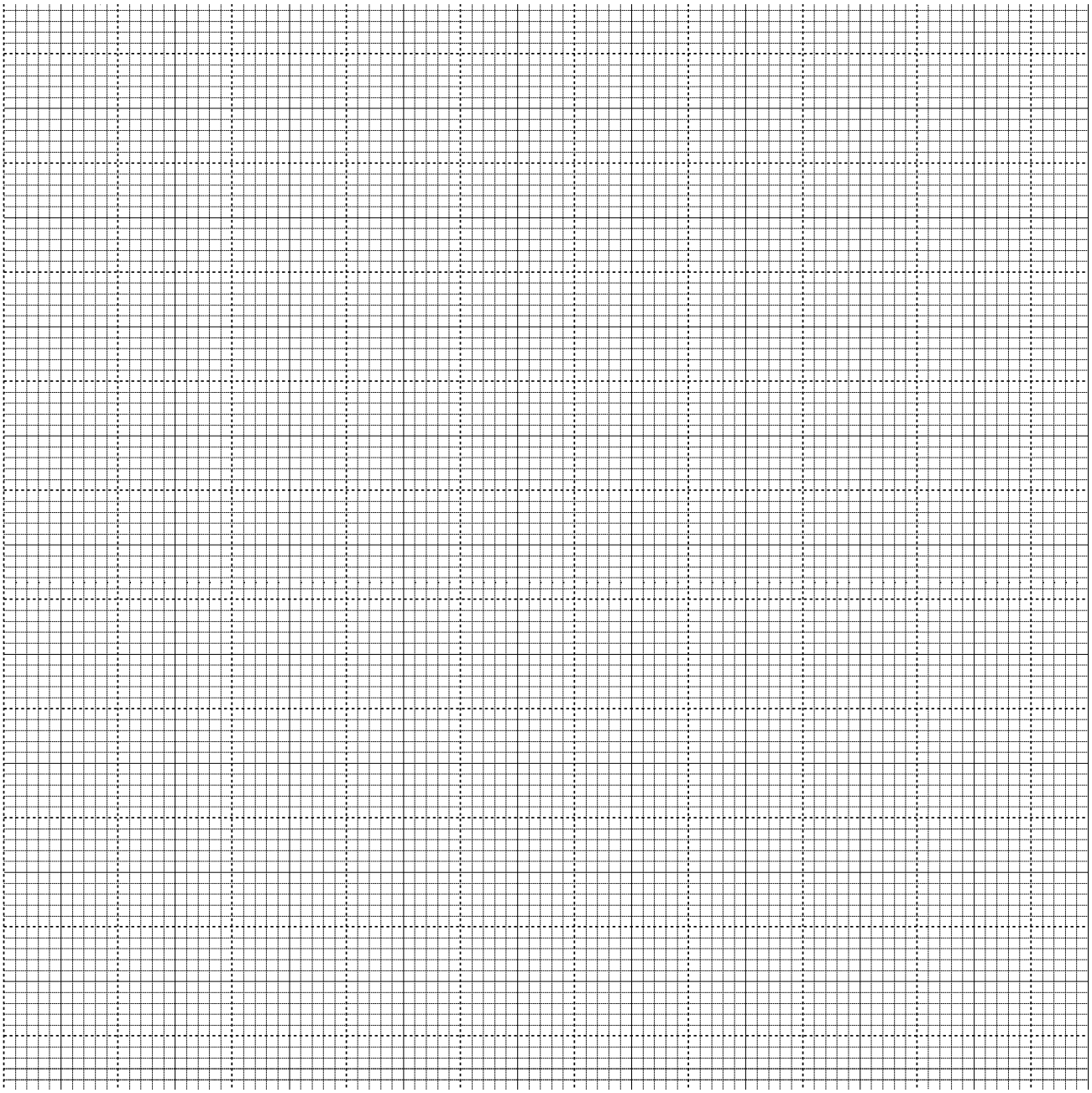
L (M)	0.2	0.4	0.5	0.6	0.7
I (A)					
P.d (v)					
R = $\frac{V}{I}$ (R)					
$\frac{1}{I}$ (A-1)					

c) Repeat part (b) above for values of L shown in the table. Record the corresponding values of I and V. Calculate the values of R and $\frac{1}{I}$ and enter the values in the table

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d) On the grid provided, plot a graph of R (Y-Axis) against $\frac{i}{I}$ (X-axis)

(5marks)



e) Determine the slope (s) of the graph **(3marks)**

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f) If the graph obeys the equation $R = \frac{E}{I} - r$ i determine;

(i) The value of E **(2marks)**

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(ii) The value of r **(2marks)**

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KCSE PREMOCK EXAMS

SERIES 001

NAME…… **INDEX NO……**

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443/1

AGRICULTURE

PAPER ONE

TIME: 2HRS

INSTRUCTIONS

This paper consists of three sections A, B and C; Candidate to answer **ALL** questions in section **A** and **B** and answers any **TWO** questions only in section **C**

CANDIDATE SCORE

	QUESTIONS	MAXIMUM SCORE	CAND.SCORE
A	1-20	30	
B	21-25	20	
C	26	20	
	27	20	
	28	20	
	TOTAL	**90**	

SECTION A (30MKS)

Answer all questions in this section on spaces provided.

1. Name two field management that are carried out to obtain optimum plant population in a crop field ` **(1mk)**

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2. Give two factors which characterize small scale farming **(1mk)**

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3. Give one examples of each of the following categories of water pipes

a) Metal pipes **(½mk)**

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b) Horse pipes **(½mk)**

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4. Name three forms of horticulture practiced in Kenya **(1½mk)**

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5. State four disadvantages of growing one type of crop on piece of land continuously **(2mks)**

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6. Outline four qualities of a mother plant from which vegetative propagation material should be obtained **(2mks)**

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7. State two ways in which crop rotation controls weeds **(1mk)**

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8. Give two reasons for imposing quarantine on imported planting materials **(1mk)**

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9. State two mechanical methods of separating soil particles according to sizes during soil analysis **(1mk)**

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10. Name four settlement schemes that the Kenyan government started as a result of the success of the million Acre scheme **(2mks)**

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11. State three practices which encourage soil erosion **(1½mks)**

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12. State four characteristics of a good vegetable seedling **(2mks)**

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13. List four pose-harvest practices that are carried out in maize production **(2mks)**

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14. List four environmental factors that affect crop production in Kenya **(2mks)**

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15. Give four reasons for seed selection in crop production **(2mks)**

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16. Give two benefits of top-dressing in management of grass pasture **(1mk)**

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17. State four disadvantages of communal land tenure system **(2mks)**

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18. State any two benefits a farmer would get by having correct plant population in the production of annual crops **(1mk)**

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19. Define the term opportunity cost as used in economic **(1mk)**

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20. State four pieces of information contained on a land title deed. **(2mks)**

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SECTION B (20MKS)

Answer all questions in this section

21. The table below shows PH value of different soil samples. Study it and answer the questions that follow.

Soil sample	**PH value**
S_1	3
S_2	4
S_3	5
S_4	6
S_5	7
S_6	8
S_7	9
S_8	10

a) Which soil sample has the highest acidity **(1mk)**

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……..

b) Which soil sample has the lowest alkalinity **(1mk)**

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c) State two ways in which the PHvalue of sample 3 can be raised **(2mks)**

i)……

……

ii)……

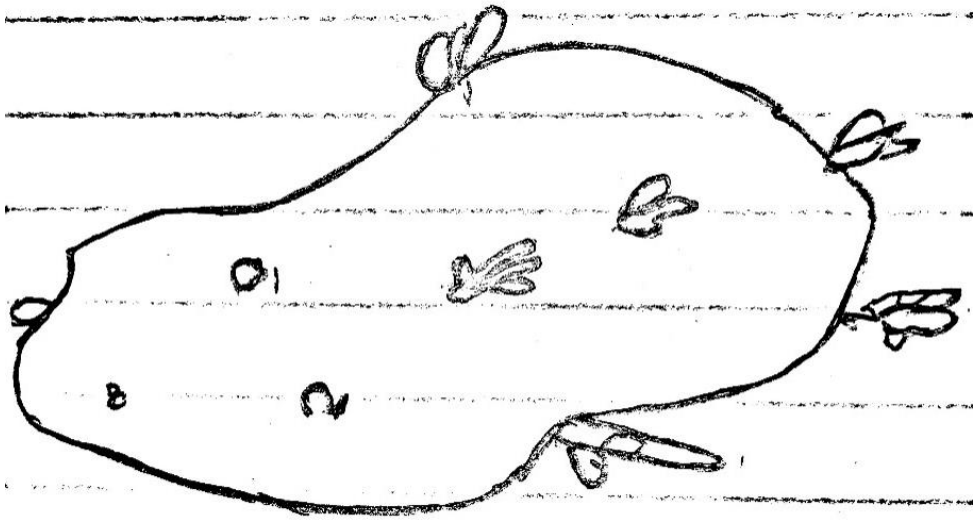
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d) Which of the above soil sample is suitable for growing maize **(1mk)**

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……..

22. The diagram below illustrates a seed potato prepared for planting. Study it carefully and answer the questions that follow.



a) Name the practice used in preparing the seed potato above for planting **(1mk)**

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b) Describe the procedure followed in preparing seed potatoes for planting. **(8mks)**

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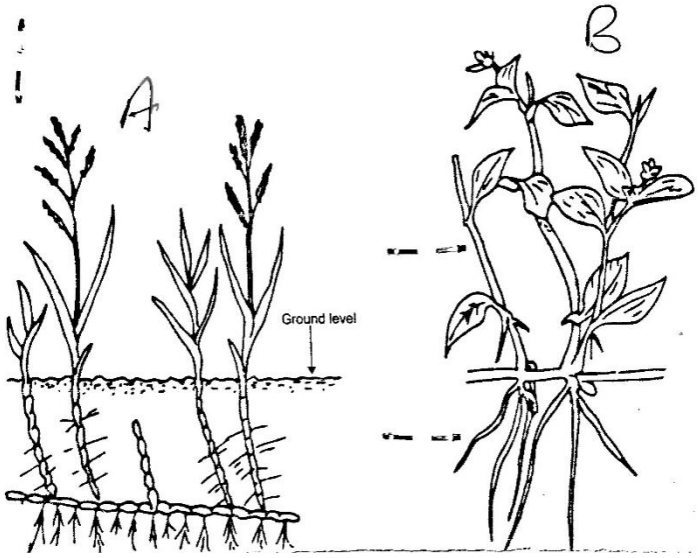
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23. Below are diagrams of common weeds found in a crop field, study them carefully and answer questions that follow.



C



a) Identify the weeds **(3mks)**

Weed A …….

Weed B …….

Weed C …….

b) State one reason why weed A is difficult to control **(1mk)**

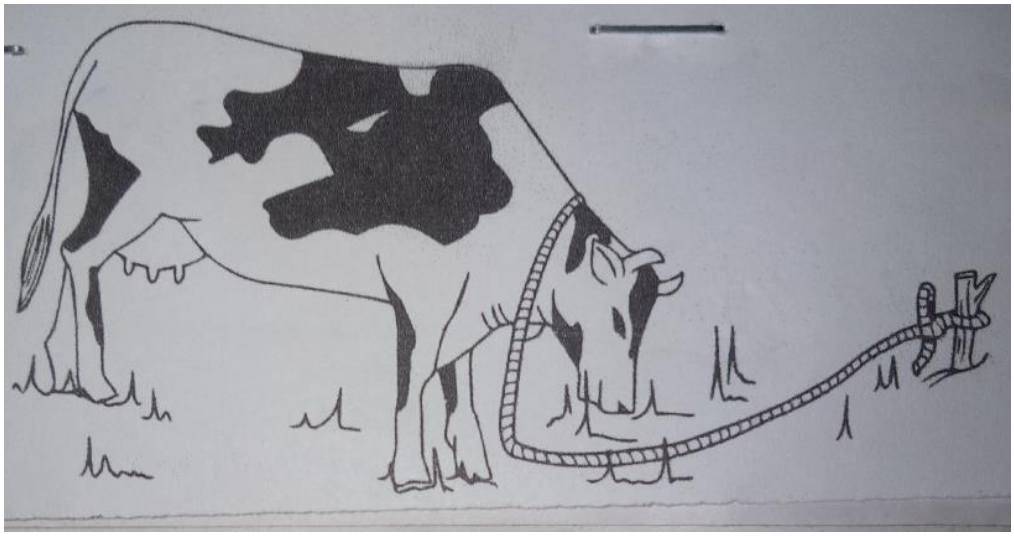
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c) State one economic use of weed B **(1mk)**

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24. Below is a method used in pasture management. Study it carefully and answer questions that follow.



a) Identify the type of grazing shown above **(1mk)**

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b) State two limiting of the practice above **(2mks)**

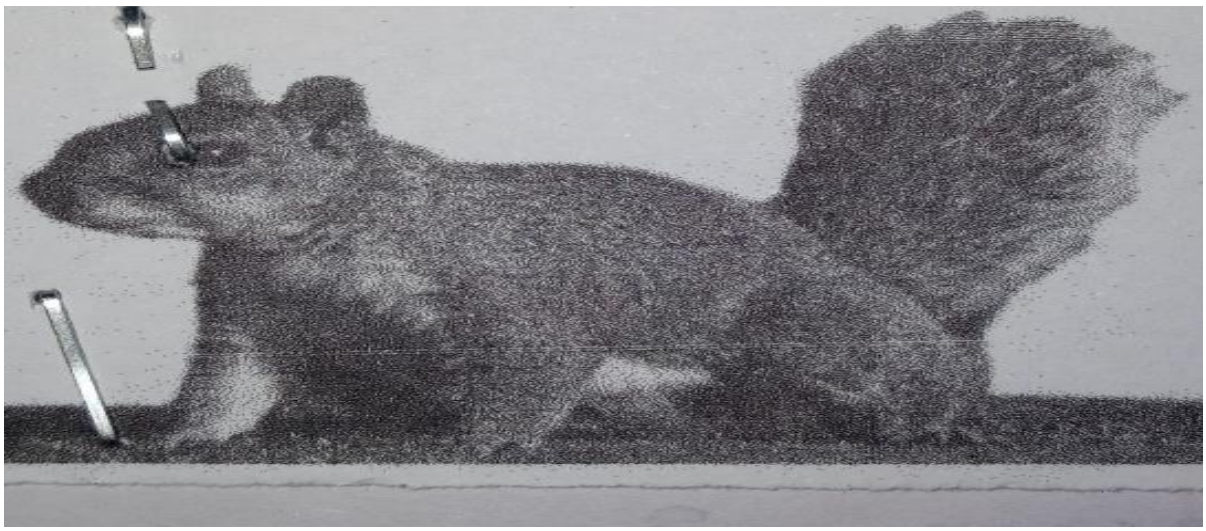
i)……

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ii)……

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25. Below is a diagram of common pest found in the field. Study it carefully and answer questions that follows



a) Identify the pest **(1mk)**

b) State the stage at which the pest attack maize **(1mk)**

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c) State one effect of the pest on crop production **(1mk)**

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SECTION C (40MKS)

Answer any two questions only from this section

26. a) Explain five ways in which biotic factors influence crop production in Agriculture **(10mks)**

b) Explain four ways in which Government policy improves agricultural production **(4mks)**

c) Describes the properties of Nitrogenous fertilizer **(6mks)**

27. a) Describe the effects of pests on Beans in the field **(4mks)**

b) Describe the production of cabbage under the following seed headings.

i. Seed bed preparation **(3mks)**

ii. Transplanting of seedlings **(4mks)**

c) Describe various nursery management practices carried out on cabbage seeding in the nursery **(5mks)**

d) Describe how water is treated to remove solid impurities **(4mks)**

28. a) Describe five ways in which a grass cover help to conserve soil **(5mks**

b) Describe maize production under following sub-headings.

i. Land preparation **(3mks)**

ii. Planting **(6mks)**

iii. Field management practices **(6mks)**

KCSE PREMOCK EXAMS

SERIES 001

NAME…… **INDEX NO……**

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443/2

AGRICULTURE

PAPER TWO

TIME: 2HRS

INSTRUCTIONS

- ✓ This paper consist of three sections A, B and C
- ✓ Candidate to answer **all** questions in section **A** and **B**
- ✓ Answer any two questions only in section **C** on the booklet provided.

CANDIDATE SCORE

	QUESTIONS	MAXIMUM SCORE	CAND.SCORE
A	1-14	30	
B	15-18	20	
C	19	20	
	20	20	
	21	20	
	TOTAL	**90**	

SECTION A (30MKS|)

Answer all questions in this section on spaces provided.

1. State four non-chemical method used to control ticks **(2mks)**

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2. Highlight two management practices carried out on a broody hen **(2mks)**

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3. Give four characteristics of a good fish pond **(2mks)**

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4. Mention four physical characteristics of exotic beef cattle breeds **(2mks)**

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5. Give four features of calf pen that help to control calf diseases **(2mks)**

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6. a) What is dry cow therapy **(1mk)**

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b) At what stage of gestation is dry cow therapy practiced **(1mk)**

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7. Name four farm structures used for handling livestock **(2mks)**

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8. Give four symptoms of respiratory disorder in a sick cow **(2mks)**

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9. Mention two characteristics of abdomen of a poor layers **(2mks)**

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10. Distinguish between mothering ability and prolificacy **(2mks)**

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11. List two factors that can lead to conception failure after female cow has been served **(2mks)**

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12. Give four factors that may lead to a farmer culling dairy cattle **(2mks)**

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13. State four reasons for doing Agriculture as a discipline **(2mks)**

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14. Name four tools that are used when laying concrete blocks during construction of a wall **(2mks)**

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15. State four features on the animal which may pre-dispose it to livestock diseases **(2mks)**

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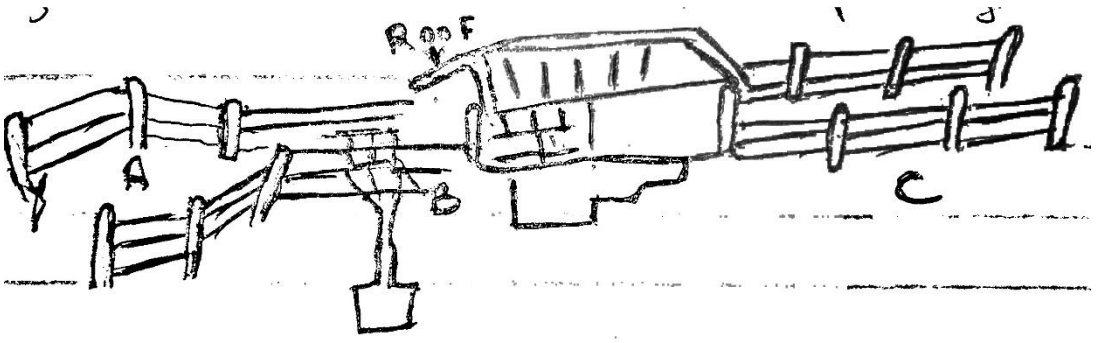
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SECTION B (20MKS)

Answer all the questions from this section.

16. Diagram below show a plunge dip.



a) Using a arrow on the diagram show the movement of cattle **(½mk)**

b) State one use of parts A, B and C **(3mks)**

A

……

……

B

……

……

C

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……

c) State two precautions a farmer should take on dip to ensure effective dipping **(2mks)**

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d) State two uses of the roof of the dip **(2mks)**

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c) Apart from use of acaricides explain other methods used to control ticks **(3mks)**

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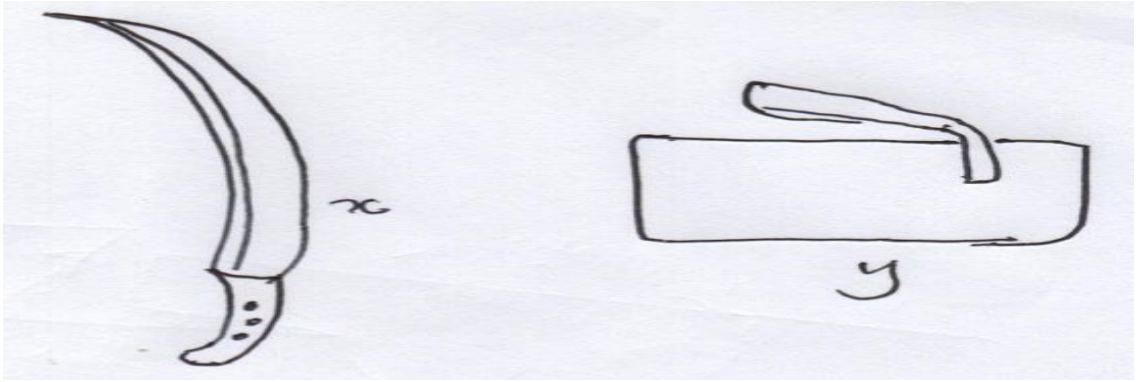
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17. a) i) Identify the tools below **(1mk)**



X ……..

Y ……

ii) State the use of tools x and y **(2mks)**

X

……

……

Y

……

……

iii) Explain two maintenance practices carried on tool X **(2mks)**

i)……

……

ii)……

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b) Name the tools used in conjuction of following tools (2mks)

i. Troca

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……

ii. Hand

drill……

……

iii. Leading stick

iv. ……

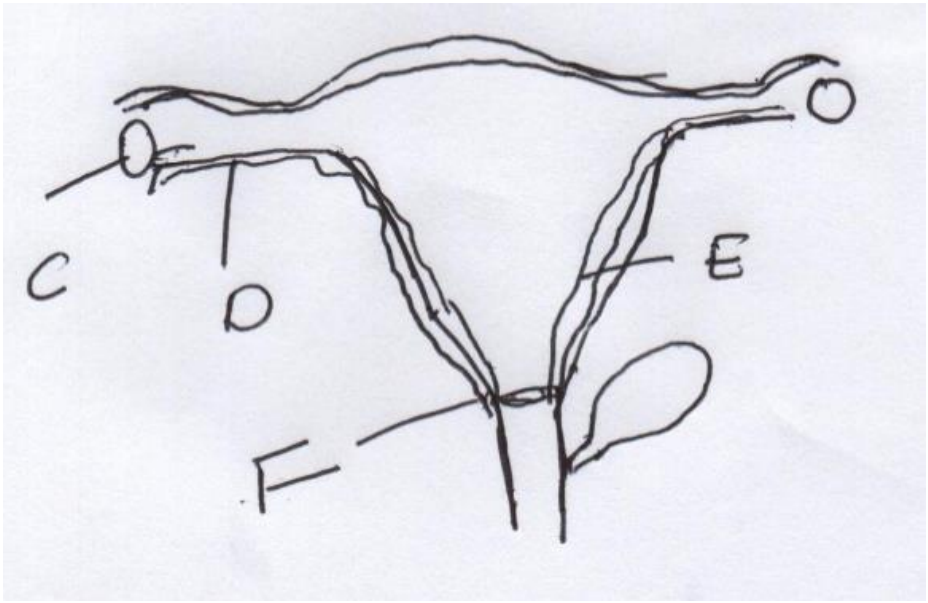
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v. Mallet

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18. a) Diagram below show reproductive system of a female cow



i. Name the part marked **(1mk)**

D

……

……

F

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ii. State the function of parts marked **(1mk)**

C

……

……..

E

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……..

b) At what stage should a gilt be mated? **(½mk)**

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SECTION C (40MKS)

Answer ONLY TWO questions on answer booklets provided.

19. a) Explain features of ideal calf pen **(6mks)**

b) Outline various feeding practices a farmer undertake on calves up to weaning **(8mks)**

c) Describe uses of water in the animals body **(6mks)**

20. a) Describe mastitis disease under the following sub-headings

i. Causal organism **(1mk)**

ii. Disease pre-disposing factors **(4mks)**

iii. Symptoms **(3mks)**

iv. Control measures **(6mks)**

b) Describe factors to consider when culling a female (Cow) breeding stock **(6mks)**

21. a) Describe the artificial rearing of layers chick from one day up to the end of brooding **(10mks)**

b) Name three types of fences **(3mks)**

c) Explain the procedure of establishing wire fence **(7mks)**

KCSE PREMOCK EXAMS

SERIES 001

NAME…… **INDEX NO……**

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565/1

BUSINESS STUDIES

Paper 1

2 HRS

Instructions to candidates

(a) *Write your name and Adm Number in the spaces provided above.*
(b) *Answer ALL the questions.*
(c) *All answers must be written in the spaces provided.*
(d) *Candidates should check the question paper to ascertain that all the pages are printed as indicated and no of questions missing.*
(e) *This paper consist of 8 printed pages.*
(f) *Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.*
(g) *Candidates should answer all the questions in English.*

For Examiners Use Only

Questions	1	2	3	4	5	6	7	8	9	10	11	12
Marks												

Questions	13	14	15	16	17	18	19	20	21	22	23	24	25
Marks													

Total marks

1.Highlight **four** reasons why people engage in Business activities.

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2. Outline **four** types of resources that are important in Business. **(4mks)**

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3. State **four** functions of an entrepreneur in the production of goods and services. **(4mks)**

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4. Identify the machine used to perform the following tasks. **(4mks)**

Statements	The machine
a) To count coins and notes	
b) To trim paper into required sizes and shapes	
c) To fold documents, place them in envelope and seal the envelope	
d) To print postage impression on envelopes	

5. Outline **four** differences between chain stores and departmental stores. **(4mks)**

Chain stores	Departmental stores
i)	
ii)	
iii)	
iv)	

6. State **four** statistics that are associated with the measurement of National income. **(4mks)**

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7. Prepare Sunshine Traders Balance sheet from the following list of balances extracted from his books as at31 December 2013. **(4mks)**

Capital	357,000
Stock	40,000
Machines	150,000
Furniture	7,000
Motor vehicles	200,000
Bank	20,000
Creditors	25,000
Cash	5,000
Debtors	60,000
Loan from KCB	100,000

8. Outline **four** characteristics of a good filing system **(4mks)**

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9. Highlight **four** methods that Government uses to protect consumers. **(4mks)**

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10. State **four** factors that a manager should bear in mind to ensure that he/she effectively communicates with the employees. **(4mks)**

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11. State the meaning of the following principles of insurance . (4mks)

a) Subrogation----------

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b) Contribution----------

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c) Insurable interest----------

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d) Indemnity----------

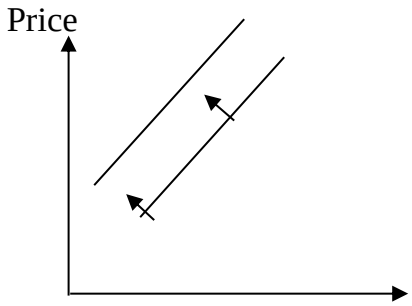
12.Highlight four characteristics of underdevelopment. **(4mks)**

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State **four** factors that may have caused the change shown in the diagram above.

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14. Highlight **four** causes of unemployment in Kenya. **(4mks)**

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15. Outline **four** circumstances under which Mr Ondieki (a farmer) may distribute his products directly to his customers. **(4mks)**

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16. Tripple SSS wholesalers had the following information as at 31 December 2013 **(4mks)**

Closing capital	70,000
Total expenses	5,000
Drawings of goods	6,000
Total incomes	3,000

Calculate the capital at the beginning of the year.

17. Highlight **four** advantages of localization of firms. **(4mks)**

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18. State **four** characteristics of good money. **(4mks)**

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19. Identify the day book associated with the following source documents given below. **(4mks)**

Source documents	Day books
Invoice received	
Credit note received	
Receipt issued	
Debit note received	

20 Highlight **four** purposes of public finance. **(4mks)**

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21. The following balances were extracted from the books of Okinda wholesalers on 31st December 2006. **(4mks)**

	Sh
Capital	800,000
Sales	250,000
Debtors	70,000
Purchases	160,000
Creditors	45,000
Opening stock (1.1.2006)	40,000
Closing stock (31.12.2006)	20,000
General expenses	50,000
5 year bank loan	200,000
Insurance expenses	20,000
Salaries and wages	80,000

Required, calculate

i) Mark up (1mk)

ii) Current ratio (1mk)

iii) Rate of stock turnover (1mk)

iv) Rate on return on capital (1mk)

23. Highlight **four** uses of a proforma invoice. **(4mks)**

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24. State **four** factors that affect the productivity of an office worker. **(4mks)**

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25. In each of the following cases, state the type of inflation described **(4mks)**

a) The unrest in Libya has resulted to an increase in the price of oil	
b)The price of bread has gone upto sh.60 due to increase in the price of wheat	
c) A lot of money in circulation has led to the general increase of price	
d) Arise in price due to uneven growth in some sectors of the economy.	

KCSE PREMOCK EXAMS

SERIES 001

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565/2

BUSINESS STUDIES

TIME: 2½ HOURS

Instructions to candidates

a) *Write your name and adm. no in the spaces provided above.*
b) *Sign and write the date of the examination in the spaces provided above.*
c) *This paper consists of **six** questions.*
d) *Answer any **five** questions in the answer booklet provided.*
e) *All questions carry equal marks.*
f) *This paper consists of **3** printed pages.*
g) *Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.*
h) *Candidates should answer the questions in English.*

For examiner's use only

Questions	Maximum Score	Candidates Score
1	20	
2	20	
3	20	
4	20	
5	20	
6	20	
	TOTAL SCORE	

FOR KCSE RESOURCES &MARKING SCHEMES CONTACT 0746 222 000

1. a) Explain **five** benefits that would accrue to Country as a result of delocalization. **(10mks)**

b) Explain **five** features of a perfect competition market structure **(10mks)**

2. a) The following transactions relate to Vivylex wholesalers for the month of December 1998.

1 Bought goods on credit from Weka Distributors sh.46,200, Micko sh15,600 and Limo shs38,360.

3 Sold goods on credit to Lwanda Retailers shs.39,200, Motor Grocers sh.25,560 and Mawe shs.12,650.

7 Returned goods to Micko sh4,200 and Limo shs6,140.

11 Bought goods on credit from Tuktuk sh34,830.

12 Goods returned by motor Grocers hs4,550 and Lwanda Retailers sh1,280.

15 Sold goods on credit to Motor Grocers shs6,800, Marion traders shs12,800.

18 Goods returned by Marion Traders shs2,060.

22 Bought goods on credit from Fatuma shs22,100, Temo shs38,350.

28 Credit sales to Ngula shs16,060, Oyunga shs12,960 and Mawe shs15,260.

Enter the above transaction in the respective books of original entry **(10mks)**

b) Discuss **five** factors that enhances efficient running of a warehouse. **(10mks)**

3**. a)** Explain **five** negative effects of inflation to a country's economic development**.(10mks)**

b) Highlight **five** importance of entrepreneurship to the economy of a country. **(10mks)**

4**. a)** Explain **five** factors that can lead to unfavourable balance of payment. **(10mks)**

b) Explain **five** factors to be considered when choosing a method of product promotion **(10mks)**

5. **a)** Describe **five** procedure to be followed when taking an insurance policy**.** **(10mks)**

b) Explain **five** limitations of containerization in transport sector. **(10mks)**

FOR KCSE RESOURCES &MARKING SCHEMES CONTACT 0746 222 000

6. a) Highlight **five** benefits that a country will enjoy as a result of indirect production **(10mks)**

b) The following trial balance was extracted from the books of Mugoya Traders as at 30th June, 2014

Mugoya Traders

Trial balance

As at 30th June 2014

Details	**Dr** (shs)	**Cr** (shs)
Premises	1,500,000	
Debtors and creditors	20,000	30,000
Cash at bank	90,000	
Cash in hand	10,000	
Purchases and sales	140,000	320,000
Stock of good on 1st July 2013	45,000	
Discounts	6,000	2,000
Salaries and wages	50,000	
Commissions		8,000
Power and lighting	12,000	
Returns	15,000	19,000
Carriage outwards	2,300	
Carriage inwards	5,400	
Capital		1,543,700
Furniture	27,000	
	1,922,700	**1,922,700**

Additional information

Stock of goods on 30th June, 2014 was worth sh22, 000.

Required: prepare trading, profit and loss account for the period ended 30th June, 2014. **(10mks)**

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102/1

KISWAHILI

INSHA

KARATASI 1

MUDA: 1 ¾

Maagizo:

- Andika insha mbili. Insha ya kwanza ni ya lazima.
- Kisha chagua insha nyingine moja kati ya hizo tatu zilizobakia.
- Kila insha isipungue maneno **400**.

SWALI	TUZO
1	
2	
3	
4	
JUMLA	

SWALI LA LAZIMA

1. Kumetokea shambulizi la kigaidi katika nchi jirani Somalia. Wewe kama balozi mwandikie raisi wa Kenya na watu wa nchi hiyo risala ya rambirambi.

2. Dhuluma dhidi ya wanawake imekita mizizi ndini. Jadili.

3. Mzigo wa mwenzio ni kanda la usufi.

4. …Na huo ndio ukawa mwanzo mpya.

FOR KCSE RESOURCES &MARKING SCHEMES CONTACT 0746 222 000

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KARATASI 102/2

SARUFI NA MATUMIZI YA LUGHA

SAA: 2 ½

Maagizo:

Jibu maswali <u>yote</u>. Majibu yako yaandikwe katika nafasi ulizoachiwa.

SWALI	UPEO	ALAMA
UFAHAMU	15	
UFUPISHO	15	
SARUFI	40	
ISIMU JAMII	10	
JUMLA	80	

UFAHAMU (ALAMA 15)

Soma kifungu kifuatacho kasha ujibu maswali.

Suala la mahusiano ya wanadamu katika jamii, uainishaji wake na uathihirikaji wake limewashughulisha wataalamu wa elimu jamii kwa dahari ya miaka. Suala hili huwatafakarisha wataalamu hao kutokana na umuhimu wake katika maisha ya binadamu msingi mkuu wa uainishaji wa mahusiano hayo ni kukichunguza kipindi cha mahusiano yenyewe. Yapo mahusiano baina ya waja ambayo yanachukua muda mfupi, kwa mfano saa au dakika chache, na mengine ambayo huenda yakachukua miaka ayami.

Mahusiano ya muda mrefu kabisa ni yale yanayojulikana kama mahusiano ya kudumu. Inamkinika kudai kuwa miundo ya kijamii, kisiasa na kiuchumi huweza kuyadhibiti mahusiano hayo kwa kiasi kikubwa. Watu wengi huitikadi kuwa uhusiano uliopo baina ya mtu na jamaa yake utachukua muda mrefu, na kwa hivyo ni uhusiano wa kudumu. Hali hii hutokana na uhalisi kuwa tunahusiana na jamaa zetu kwa kipindi kirefu labda tangu ukembe hadi utu uzima wetu. Uhusiano huu hautarajiwi kuvunjwa na umbali wa masafa baina yetu; tunaendelea kuwasiliana kwa barua au, katika enzi hii ya utandawazi, kwa kutumia nyenzo za teknohama kama mtandao na simu za mkononi, na kudumisha uhusiano wetu wa kijamaa. Hata hivyo, inawezekena baadhi ya mahusiano ya kijamaa yasiwe ya kudumu. Mathalan, uhusiano uliopo baina ya mke na mume, na ambao unatarajiwa kuwa wa kudumu au kipindi kirefu, unaweza kuvunjwa kwa kutokea kwa talaka. Talaka hiyo inavunja ule uwezekano wa uhusiano wa kudumu unaofumbatwa na sitiari ya pingu za maisha.

Katika ngazi ya pili, mahusiano ya koindi cha wastani, kuna mahusiano yanayohusisha marafiki zetu maishani, shuleni au kwenye taasisi zozote zile, majirani zetu, wenzetu katika mwahali mwa kazi, washirika kwenye sehemu za ibada au za burudani na wenzetu kwenye vyama tofauti na makundi ya kujitolea. Inawezekana kudahili kuwa baadhi ya mahusiano haya, hususan baina ya marafiki na majirani huweza kuwa ya miongo na daima. Hali hii huweza kutegemea muundo na mfano wa jamii. Kwa mfano, kwa majirani wanaoishi kwenye janibu, fulani mahususi, na kwa miaka tawili bila ya kuhajiri. Uhusiano wao na majirani huweza kuwa wa kudumu. Hali hii **inasigana** na hali iliyoko kwenye maisha ya mijini. Maisha ya mijini yana sifa ya kubadilkikabadilika. Isitoshe, kutokana na mfumo wa maisha ya kibepari **yameghoshi** ubinafsi mwingi. Mawimbi ya mabadiliko na ubinafsi uweza kuumomonyoa ukuta wa uhusiano wa kudumu.

Mwelekeo wa maisha ya siku hizi ya uhamaji kutoka maeneo au viambo walikoishi watu unasababisha kupombojea kwa mahusiano ya kudumu baina yao na majirani zao. Uhusiano kati ya

wenza katika mazingira ya kazi unahusiana kwa kiasi fulani na ule wa majirani. Vimbunga vya ufutwaji kazi, ubadilishaji wa kazi, hali zisizotegemewa na mifumo ya kimataifa pamoja na hata mifumo ya kisiasa huweza kuathiri mshikamano wa wanaohusika kazini.

Kiwango cha mwisho cha mahusiano ni uhusiano wa mpito au wa muda mfupi. Mahusiano ya aina hii hujiri katika muktadha ambapo pana huduma fulani. Huduma hizi zinaweza kuwa dukani, kwenye sehemu za ibada, kwenye kituo cha mafuta, kwa kinyozi, kwa msusi na kadhalika. Kuna sababu kadha zinazotufanya kuyazungumzia mahusiano ya aina hii kama ya mapito. Kwanza, uwezekano wa mabadiliko ya anayeitoa huduma hiyo ni mkubwa. Si ajabu kuwa unaporudi kwa kinyozi au msusi untambua aliyekushughulikia hayupo. Hata hivyo, kuna **vighairi** hususa pale ambapo mtoa huduma anayehusika ni yule mmoja.

Mahusiano ya mpito yanatawaliwa na "uhusiano wa chembe chembe". Uhusiano wa chembe chembe, bidhaa ya mfumo wa kibepari, unamaanisha kuwa kinachomshughulisha mtu ni chembe ndogo tu ya mwenzake. Chembe hiyo inaweza kuwa huduma, kwa mfano, gazeti analokuuzia mtu, kiatu anachokushonea, nguo anazokufulia, ususi anaokufanyia n.k. Mahusiano ya aina hii yametovukwa na hisia za utu na ni zao la mifumo ya kisasa na kiuchumi na kijamii. Mtu anayehusiana na mwenzake kwa misingi ya chembe ndogo tu, huenda asijali kama mwezake amekosa chakula, amefutwa kazi, amefiliwa na kadhalika.

Suala kuu tunalopaswa kujiuliza nji: Je, tunahusiana vipi na jamaa zetu, taasisi zetu, marafiki zetu na majirani zetu? Je, uhusiano wetu na raia wenzetu ni w aaina gani? Je, uhusiano wetu na nchi yetu ni wa mpito au ni wa kudumu?

(a) Taja kigezo muhimu cha kuzungumzia mahusiano. **(al 1)**

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(b) Eleza imani ya watu kuhusu uhusiano baina ya jamaa. **(al 1)**

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(c) Fafanua athari ya technolojia kwenye mahusiano ya watu. **(al 2)**

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(d) Eleza sababu nne kuu za kuharibika kwa mahusiano katika maisha ya leo. **(al 4)**

FOR KCSE RESOURCES &MARKING SCHEMES CONTACT 0746 222 000

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(e) Taja sifa kuu ya mahusiano ya muda mfupi. **(al 2)**

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(f) Je, kifungu hiki kina ujumbe gani mkuu? **(al 2)**

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……..

……..

(g) Eleza maana ya maneno yafutayo kama yalivyotumiwa katika kifungu. **(al 3)**

(i) inasigana……

(ii) yameghoshi……

(iii)

vighairi……...

UFUPISHO (ALAMA 15)

Ujambazi wa kimataifa ni tatizo lililowasumbua walimwengu kwa muda mrefu sana. Serikali nyingi zimetumia mapesa mengi kwa miaka mingi sana zikijitahidi kupambana na janga hili. Hata hivyo, fanaka haijapatikana, wala haielekei kamwe kuwa itapatikana leo au karne nyingi baadaye.

Yumkini tatizo kubwa lililopo ni kuhusu jelezi la dhanaya "ujambazi" tena "wa kimataifa". Hili ni tatizo mojawapo na yapo mengi sana. Tatizo la pili ni kiburi. Kuna wale watu binafsi na hasa viongozi w anchi kubwakubwa na serikali zao zilizojiaminisha kuwa ujambaz ni balaa kweli, tena belua, lakini huo ni wa huko, wala hauwezi kuwagusa licha ya kuwashtua wao.

Kulingana na maoni watakaburi hao, ujambazi ni wa watu 'washenzi' wasiostaarabika, wapatikanao katika nchi zisizoendelea bado. Ujambazi peke wanaouona unafaa kukabiliwa ni dhidi ya mbubujiko wa madawa ya kulevya uliosababishwa na vinyagarika kutoka nchi hizo maaluni za "ulimwengu wa tatu". Kulingana na wastaarabu wa nchi zilizoendelea, vinyangarika hivi ndivyo hasa adui mkubwa wa ustaarabu ulimwenguni na ni sharti vifagiliwe mbali bila huruma. Baada ya

kusawasagwa, ulimwengu mstaarabu utazidi kutononoka na ahadi ya mbingu hapa ardhini itakamilika.

Imani ya watu hawa ya kuwa ujambazi wa kimataifa, hata iwapo upo, hauwezi kuwashtua wala kuwatingisha wao ilikuwa kamili na timamu. Ilikuwa kamili na timamu hadi hapo mwezi Septemba tarehe 11 mwaka wa 2001, ndege tatu za abiria zilipoelekezwa katika majumba mawili ya fahari, yenye urefu wa zaidi ya ghorofa mia moja na kuyatwangilia mbali. Mshtuko na kimako! Kimako kwa kuwa, kabla ya siku hiyo, Wamarekani hawangeweza kudhani kwamba ingewezekana taifa lolote au mtu yeyote kuthubutu kushambulia nchi yao, taifa wasifa lililojihami barabara dhidi ya aina yoyote ile ya uchokozi kutoka pembe lo lote la dunia.

Hakuna ulimwenguni mzima, aliyeamini kuwa Marekani ingeweza kushambuliwa. Kwa ajili hiyo, mshtuko uliitingisha ardhi yote na huzuni ilitanda kote, kama kwamba sayari nzima imeshambuliwa, wala sio Marekani pekee.

Mintarafu hiyo, Marekani ilipolipiza kisasi kwa kuwaunguza waliokuwemo na wasiokuwemo kwa mabomu hatari huko Afghanistan, idadi kubwa ya watu duniani ilishangilia na kusherehekea. Kwa bahati mbaya, tafsiri ya shambulizi la minara-pacha na Newyork na lile la Pentagon, uti wa uwezo wa kivita wa Marekani, ulizorota. Kuna wengi waliodhani huo ni mwanzo wa vita vya Waislamu dhidi ya Wakristo na kwa muda, Waislamu wote wakashukiwa kimakosa kuwa ni majambazi wa kimataifa.

(a) Bila kubadilisha maana, fupisha aya tatu za kwanza. (maneno 65 – 75) (al 10, 2 za utiririko)

Matayarisho

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Nakala safi

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(b) Ukizingatia aya tatu za mwisho, fafanua fikira za watu na mambo yote yaliyotokea baada ya Septemba tarehe 11, 2001. (maneno 65 – 75) (al 10, 2 za utiririko)

Matayarisho

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Nakala safi

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MATUMIZI YA LUGHA (ALAMA 40)

(a) Silabi ni nini? **(al 2)**

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(b) Tenga silabi katika maneno yafuatayo kisha uandike aina yake. **(al 2)**

(i) igwa

……..

……..

(ii) Oa

……..

……..

(c) Dhihirisha panapotiwa shadda katika maneno yafuatayo. **(al 2)**

(i) Galagala ……

(ii) Teketeza ……...

(d) Bainisha nomino katika sentensi zifuatazo kisha utaje aina zake. **(al 2)**

(i) Uhubiri wa mama huyu una mvuto mkubwa

……

……..

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(ii) Kabati hili limevamiwa na wadudu wengi waharibifu.

……..

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……..

(e) Eleza matumizi ya kihusishi <u>kwa</u> katika sentensi ifuatayo. **(al 2)**

Tahadhari huandikwa kwa hati nzito.

……..

……..

(f) Tenga viambishi na mzizi katika neno lifuatalo. **(al 2)**

Siji.

……..

……..

(g) Unda nomino kutokana na kivumishi kifatacho. (al 1)

Tepetevu

……..

(h) Pigia mstari na kuainisha kirai katika sentensi ifuatayo. (al 2)

Haifai kujenga karubu na nyaya za umeme

……..

……..

(i) Bainisha shamirisho kitondo katika sentensi ifuatayo. (al 2)

Mzalendo amemwandikia mhariri barua.

……..

……..

……..

(j) Eleza kama sentensi ifuatayo ni sahili, ambatano ama changamano. (al 2)

Tulipewa ratiba ya shughuli hiyo lakini hatukuitia maanani

……..

……..

……..

(k) Bainisha vishazi huru na vishazi tegemezi katika sentensi ifuatayo. (al 2)

Simu tamba ambayo ameninunulia imenirahisishia mawasiliano

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……..

(l) Kanusha sentensi ifuatayo. (al 2)

Ninamtarajia mpwa wangu awasili leo

……..

……..

(m) Andika katika wingi. (al 2)

Huzuni aliyokuwa nayo yatima huyu ilinitia kite na imani.

……..

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(n) Andika kinyume cha neno lililopigwa mstari. (al 1)

Mhalifu huyu <u>alitunga</u> mimba

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(o) Bainisha matumizi ya **KI** katika sentensi ifautayo. (al 1)

Jua limekuwa likiwaka tangu Januari

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……..

(p) Bainisha matumizi ya **ka** katika sentensi ifuatayo: (al 1)

Sungura alifika nyumbani akamsalimu mkewe, akafululiza msalani akaoga

……..

……..

(q) Akifisha sentensi hii: (al 2)

Mmea wa pareto ni muhimu mno nchini akasema afisa wa kilimo

……..

……..

(r) Badilisha katika usemi wa taarifa: (al 2)

"Tutakusaidia ikiwa utashirikiana nasi," afisa wa usalama akasem.

……..

……..

……..

(s) Andika katika ukubwa ukizingatia neno lililopigwa mstari. (al 1)

Aliyerembesha <u>uso</u> kwa poda.

……..

……..

(t) Bainisha maana mbalimbali za sentensi ifuatayo: (al 3)

Mwalimu amempigia wanafunzi simu

……..

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……..

(u) Silabi mwambatano ni nini? (al 1)

……..

(v) Tunga sentensi moja udhihirishe maana mbili za neno hili: Rudi (al 1)

……..

……..

……

(w) Pigia mstari vivumishi katika sentensi ifuatayo kisha uandike aina yake. (al 2)

Bibi huyu ni mpole uso wake wenye haya huuinamisha kila mara.

……..

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ISIMU JAMII

Maenezi ya Kiswahili Afrika mashariki punde baada ya uhuru yalikuwa na chagamoto tele. Fafanua zozote tano. **(al 10)**

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KISWAHILI

PAPER 3

Kiswahili Karatasi ya 3 - Fasihi

RIWAYA: CHOZI LA HERI

LAZIMA

1. .Fafanua ufaafu wa anwani Chozi la Heri **(alama 20)**

SEHEMU YA B

Tamthilia : Kigogo ; Pauline Kea

(Jibu Swali la 2 au 3)

1. "Ukitaka kuwafurusha ndege, kata mti"

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

(b) Onyesha mbinu nyingine zinazotumiwa na wahusika
Hawa kutimiza malengo yao. **(alama 16)**

2. Tamaa na ubinafsi zinaathari kubwa kwa jamii ukiirejelea tamthilia ya kigogo ;
Jadili. **(alama 20)**

SEHEMU C

Diwani Tumbo lisiloshiba na Hadithi Nyingine; Alifa Chokocho na Damu Kayanda (Wahariri)

(Jibu Swali la 4 au 5)

3. "Ingawa vingi , sauti havina sauti zavyo zinamezwa tu na mipumuo……."
   (a) Eleza muktadha huu **(alama 4)**
   (b) Fafanua 'mipumuu' inayorejelewa katika dondo hili. **(alama 16)**

4. Shibe inatumaliza; Salma Omar
   (a) Jazanda ni mbinu mojawapo ya mbinu za lugha ziizotumiwa kwa ukamilifu. Ukirejelea hadithi shibe inatumaliza fafanua mifano kumi. **(alama 10)**
   Mame Bakari Mohammed Khelef

   (b) Athari za ubakaji ni donda sugu katika jamii. Thibitisha kauli hii kwa mujibu wa hadithi hii. **(alama 10)**

SEHEMU YA D:

USHAIRI

JIBU SWALI LA 6 AU LA 7

SOMA SHAIRI HILI KISHA UJIBU MASWALI YANAYOFUATA

Ndege mwema na muruwa, katu haishi tunduni
Hataki kufadhiliwa, muda yumo utumwani
Japo mnyonyoe mbawa mwisho wake atahuni Ndege
kuishi tunduni, ni nguvu amezidiwa.

Ndege ataka yoyoma, nasiyahi msituni
Apite akisimama, shinani na mitawini

Haridhiki kwa mtama, na maji ya kikombeni
Ndege kuishi tunduni, ni nguvu amezidiwa

Ndege mwema wa hishima mwema mno wa kughani
Tundu huliona chama, japo liwe la thamani
Huporomosha yakwe kima, na kufanya faraghani
Ndege kuishi tunduni, ni nguvu amezidiwa

Ndege mpambe kwa zari, na lulu na marijani
Upambe yake suduri, kwa almasi kidani
Tunduni atahajiri, ili awe huriani

Ndege kuishi tunduni, ni nguvu amezidiwa

Ndege mwema wa busara, hatoishi kifungoni
Anayo kubwa hasara, kukosa nyumba ya mani
Lamkera lamkera, tundu la dhahabu kwani
Ndege kuishi tunduni, ni nguvu amezidiwa

Ndege maumbile yake, na waja hayalingani
Yeye hutaka wenzake wafukuzane hewani
Jambo la kuishi mpweke, kamwe humridhiani
Ndege kuishi tunduni, ni nguvu amezidiwa

Baiti zangu ni haba, nakonea kituoni
Ndege huficha mahaba, kama yumo kifungoni
Hali ndege akashaba, kwani yumo adhabuni
Ndege kuishi tunduni, ni nguvu amezidiwa

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Maswali

(a) Lipe shairi anwani mwafaka **(alama 1)**

(b) Fumbua maana ya ndege anayerejelewa **(alama 1)**

(c) Shairi hii ni la mkondo gani? **(alama 3)**

(d) Eleza muundo wa ubeti wa nne **(alama 3)**

(e) Fafanua uhuru aliotumia mshairi **(alama 4)**

(f) Andika ubeti wa tatu kwa lugha ya nathari **(alama 4)**

(g) Jadili dhamira ya mshairi **(alama 2)**

(h) Fafanua maana ya msamiati ufuatao kama ilivyotumiwa na mshairi

i) Atahuni ii) Baiti

7. **Soma shairi hili kasha ujibu maswali yanayofuatia**

MKULIMA

Mtazameni ……nguzo ya Afrika Mtumwa wa
watumwa walioridhiya!

Amekita jembe lake akilisujudia
Kwa tambo liloumbuka na kuselehea
Uso ukifuka ukata ulojifanya tabia
Na machungu ya maonevu alovumilia

Moyo wako mzito *ulokokomaa* kama kuni
Haujui tena kutarajia wala kutamani
Unakufa ganzi, kutohisi raha wala huzuni

Basi iteni fikira mambo mukiyafikiri
Siku hamaki yake itapochafuka kama bahari
Siku ukweli wa hali yake utapodhihiri
Umejiandalia vipi…

Huo mkono ulomuumbua na kumkausha
Hizo pumzi zilomzimia taa ya maisha Kumfunga
kizuizi, gizani kumtowesha?

Ni jawabu gani alowekewa na wakati
Kuipoza ghadhabu ya kiu ingawa katiti
Kuiliwaza hamaki ya njaa hii ya dhati
Njaa ya maisha itakayo kushibishwa

MASWALI

(a) Eleza mambo muhimu yanayojitokeza katika shairi hili **(alama 4)**

(b) Taja na utoe mifano ya aina zozote **mbili** za usemi zilizotumika katika shairi hili.

(c) Eleza maundo wa shairi hili **(alama 3)**

(d) Onyesha umuhimu wa matumizi ya kihisishi katika shairi (alama 2) (e) Fafanua maana ya:

(i) siku hamaki yake itapochafuka kama bahari **(alama 2)**

(ii) kuipoza ghadhabu ya kiy ingawa katiti **(alama 2)**

(f) Eleza maana ya msamiati ufuataokama ulivyotumiwa katika shairi

i) tambo

ii) ulokokomaa

iii) kumtowesha **(alama 3)**

SEHEMU YA E

FASIHI SIMULIZI

8. (I) Jamii ya waluo wana ohangla,
Waluhya wana Isukuti,
Wakikuyu wana mwomboko

Wakamba wana wathi na kilumi

Waswahili wana chakacha

(a) tambua kipera kina chorejelewa katika maelezo haya **(alama 2)**

(b) fafanua dhima ya kipera hiki **(alama 8)**

(ii) Eleza udhaifu wa mahojiano kama mbinu ya ukusanyanji wa data katika fasihi simulizi **(al 10)**

KCSE PREMOCK EXAMS

SERIES 001

NAME…… **INDEX NO……**

SCHOOL…… **SIGN……**

313/1

CHRISTIAN RELIGIOUS EDUCATION

PAPER 1

TIME: 2 ½ HOURS

INSTRUCTIONS TO CANDIDATES

(a) *Answer **ALL** the questions.*

(b) *Each question on its own foolscap.*

(c) *Question must be answered neatly in a good hand writing.*

QTN	1	2	3	4	5	TOTAL SCORE
SCORE						

1. a) Outline the first account of creation in Genesis 1:1-2:49 **(7mks)**

b) State **seven** responsibilities given to human beings by God in the genesis stories of creation. **(7mks)**

c) Outline **six** ways in which Christians care for God's creation today. **(6mks)**

2. a) Explain the factors that led to the division of Israel after the death of King Solomon. **(7mks)**

b) Identify **seven** reasons that led to the Mt. Carmel contest. **(7mks)**

c) State **six** reasons why leaders are rejected in society today. **(6mks)**

3. a) Mention seven ways in which the old Testament prophets communicated their messages. **(7mks)**

b) Give **seven** reasons why Israel and Judah would face God's judgement according to prophet Amos. **(7mks)**

c) State six ways in which modern Christians may invite Gods punishment on them. **(6mks)**

4. a) Describe the call of prophet Jeremiah. **(7mks)**

b) Outline **seven** reasons why Jeremiah condemned human sacrifice. **(7mks)**

c) State **six** ways in which Christians can reduce human suffering. **(6mks)**

5. a) Identify seven factors that promote harmony and social responsibility in traditional African Community. **(7mks)**

b) Mention seven factors that influence the naming of children in traditional African society. **(7mks)**

c) Show how modern trends have affected burial rites in traditional African communities. **(6mks)**

FOR KCSE RESOURCES &MARKING SCHEMES CONTACT 0746 222 000

KCSE PREMOCK EXAMS

SERIES 001

NAME…… **INDEX NO……**

SCHOOL…… **SIGN……**

313/2

CHRISTIAN RELIGIOUS EDUCATION

PAPER 2

TIME: 2 ½ HOURS

Instructions to candidates

(a) *Answer **ALL** the five questions.*

(b) *Each question should be done on a separate foolscap.*

(c) *Questions must be answered neatly in a good hand writing*

QUESTION	1	2	3	4	5	TOTAL SCORE
SCORE						

1. a) Outline Nathan's prophecy concerning the coming of the messiah. **(6mks)**

b) Describe the birth of John the Baptist according to Luke 1:57-79. **(7mks)**

c) Give **seven** reasons why Christians sing in church today. **(7mks)**

2. a) Outline **seven** teachings of Jesus from the sermon on the plain on true discipleship. **(7mks)**

b) Using examples give **four** reasons why Jesus faced opposition from the Jewish, religious leaders in Galilee . **(8mks)**

c) Outline **Five** ways in which the church leaders are preparing in the society for the second coming of Jesus. **(5mks)**

3. a) Narrate the parable of the great feast. **(7mks)**

b) Identify **seven** teachings of Jesus on eschatology according to Luke 21:5-38. **(7mks)**

c) State **six** reasons why Christians celebrate the last supper today. **(6mks)**

4. a) Give **seven** instructions Paul gave to the church in Corinth on how to use Spiritual gifts. **(7mks)**

b) Explain how the unity of believers is expressed in the image of the bride Rev.2:1-2 2 cor11:2. **(6mks)**

c) Outline the importance of the Holy Spirit to Christians today. **(7mks)**

5. a) Outline **seven** moral duties of employers to employees. **(7mks)**

b) Mention **seven** factors that determine a just wage. **(7mks)**

c) Show how retrenchmentof workers affect their families. **(6mks)**

FOR KCSE RESOURCES &MARKING SCHEMES CONTACT 0746 222 000

KCSE PREMOCK EXAMS

SERIES 001

NAME…… **INDEX NO……**

SCHOOL…… **SIGN……**

311/1

HISTORY & GOVERNMENT

PAPER 1

TIME: 2 ½ HOURS

INSTRUCTIONS TO CANDIDATES

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

(b) Answer all questions in this paper.

MARKS TABLE

SECTION A	17	18	19	20	21	22	TOTAL

SECTION A (25 MARKS)

1. How can anthropology be used to source information on history and government. **(1 mk)**

2. Identify one ageset among the Nandi. **(1 mk)**

3. Give two positive contributions of Seyyid said to the economy of Kenyan coast upto 1700 AD. **(2 mks)**

4. Identify the main cause of political conflicts in Kenya. **(1 mk)**

5. Give the main cause of political conflicts in Kenya. **(1 mk)**

6. Give two remedies that have been employed to curb food shortages in Kenya**.** **(2 mks)**

7. State two main features of the 1962 constitution of Kenya. **(2 mks)**

8. Give two rights of persons with disabilities in Kenya. **(2 mks)**

9. Identify one role of religion during the Agiriama resistance. **(1 mk)**

10. Give one impact of local government in colonial Kenya. **(1 mk)**

11. State two roles of Africans in the provision of health services during the colonial period.**(2 mks)**

12. Give two ways in which the first World War contributed to African political awareness in Kenya. **(2 mks)**

13. Give one contributed of Daniel Moi in environmental conversation in Kenya. **(1 mk)**

14. State two functions of the County Executive Committee. **(1 mk)**

15. Identify one settlement scheme established by the government in former European farms. **(1 mk)**

16. State two achievements of the Kenya African Democratic Union if Kenya. **(2 mks)**

17. Identify one principle of public finance in Kenya. **(2 mks)**

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SECTION B (45 MKS)

18.(a) State five factors that facilitated he coming of Arabs to the Kenyan coast by 1500 AD. **(5 mks)**

(b) Explain five factors that contributed to the decline of early city states along the Kenyan coast. **(10 mks)**

19.(a) Give three reasons for the rise of independent churches during the colonial period. **(3 mks)**

(b) Explain six problems that were encountered by Trade Unions during the colonial period. **(12 mks)**

20.(a) Give three reasons why Africans were denied the right to grow cash crops during the colonial period. **(3 mks)**

(b) Explain six problems faced by settlers in colonial Kenya. **(12 mks)**

SECTION C (30 MKS)

21.(a) Give three reason that may lead to the impeachment of a government from officer. **(3 mks)**

(b) Explain six challenges facing county governments. **(12mks)**

22.(a) Give five contributions of professor Wangari Maathai to the environmental conservation efforts ion Kenya. **(5 mks)**

(b) Describe the main features of African socialism. **(10 mks)**

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KCSE PREMOCK EXAMS

SERIES 001

NAME…… **INDEX NO……**

SCHOOL…… **SIGN……**

311/2

HISTORY & GOVERNMENT

PAPER 2

TIME: 2 ½ HOURS

INSTRUCTIONS TO CANDIDATES

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

(b) Answer all questions in this paper.

MARKS TABLE

SECTION A	17	18	19	20	21	22	TOTAL

SECTION A (25 MKS)

Answer all the questions

1. State two advantages of using electronics in History. **(2mks)**

2. Give the MAIN characteristic that distinguish man from other primates **(1mk)**

3. What two factors favoured the beginning of Agriculture during the new stone age period **(2mks)**

4. State two factors that facilitated Trans-Atlantic Trade. **(2mks)**

5. Give one way in which road carnage affects the Economy of a country. **(1mk)**

6. Identify one form of picture writing during the early civilization. **(1mk)**

7. State two uses of water as an early source of energy in industries. **(2mks)**

8. Identify two challenges faced by Athens as a ancient urban centre. **(2mks)**

9. State one way through which trade contributed to the rise of Asante Empire during the 19^{th} century. **(1mk)**

10. Identify one way through which Europeans maintained peace among themselves during partition of African. **(1mk)**

11. State two factors that facilitated application of indirect rule in the Northern Nigeria. **(2mks)**

12. Mention two political challenges facing African states since independence. **(2mks)**

13. Identify the names of the two camps that fought during the First World War. **(2mks)**

14. Give one reason that contributed to the collapse of the ujamaa policy in Tanzania**.** **(1mk)**

15. Name the organization that replaced Preferential Trade Area (PTA). **(1mk)**

16. Identify one weapon used during cold war. **(1mk)**

17. Give one way in which a person can become a member of parliament in Britain**.** **(1mk)**

SECTION B (45 MARKS)

Answer the 3 questions

18. a) State five factors that facilitated the scientific revolution. **(5mks)**

b) Explain 5 factors that enabled West Germany to recover after the world war. **(10mks)**

19. a) State 3 reasons for Lewanika's collaboration with the British. **(3mks)**

b) Describe the political organization of the Asante in the pre-colonial period. **(3mks)**

20. a) Give 3 causes of army muting Democratic Republic of Congo in 1960**.** **(3mks)**

b) Explain political development in Tanzania since independence. **(12mks)**

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SECTION C (30 MARKS)

Answer the two questions.

21. a) State five characteristics of the common wealth states . **(5mks)**

b) Explain five achievements of common wealth to its members. **(10mks)**

22. a) State three reasons for the failure of Schlieffen plan during first world war. **(3mks)**

b) Explain six reasons for the Allies Victory during Second World War. **(12mks)**

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KCSE PREMOCK EXAMS

SERIES 001

NAME…… **INDEX NO……**

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GEOGRAPHY

PAPER 1

INSTRUCTIONS TO STUDENTS

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

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

SECTION A

Answer all the questions in this section

1. a) What is the relationship between Geography and Economics. **(2 marks)**

b) Differentiate between habitat and environment. **(2 marks)**

2. a) Define the terms rotation and rotation of the earth. **(2 marks)**

b) List the three major methods of mining. **(3 marks)**

3. a) Name two minerals that make up granite rocks. **(2 marks)**

b) Name two features that results from fissure eruption. **(2 marks)**

4. a) List three types of faults.

b) Identify two agents of weathering. **(2 marks)**

5. a) i) Identify two effects of ocean currents on the adjacent coastal regions. **(2 marks)**

ii) Distinguish between an ocean and a sea. **(2 mark)**

b) Give two ways in which Kenya has benefited from coastal landforms. **(2 marks)**

SECTION B

Answer question 6 and any other two questions from this section.

6. Study the map of Taita Hills 1 : 50,000 (sheet 189/4) provided and answer the following questions.

a) i) What is the bearing of the peak of Mwatunge hill in grid square 3214 from water tank in grid square 2619 **(2 marks)**

ii) What is the length in kilometres of the section of the Mwatate - Voi railway line in the south -eastern part of the map? **(2 marks)**

b) Draw a rectangle measuring 16cm by 12cm to represent the area enclosed by the eastings 24 and 40 and Northings 20 and 30. **(1 mark)**

On the rectangle, mark and name the following features.

- Mgange hills (1 mark)
- A rock outcrop (1 mark)
- All weather road, bound surface (1 mark)
- River Ruhia (1 mark)
- Ronge forest (1 mark)

c) Using evidence from the map, explain three factors that have favoured the establishment of the Taita Sisal estates in the Southern part of the area covered by the map. **(6 marks)**

d) i) Describe the distribution of settlement in the area covered by the map. **(5 marks)**

ii) Citing evidence from the map, give two economic activities carried out in the area covered by the map other than sisal farming. **(4 marks)**

7.a) What is vegetation. **(2 marks)**

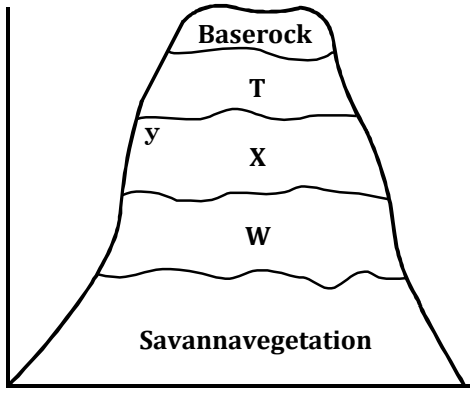
b) Explain how the following factors influence vegetation in Kenya.

i) Soil (2 marks)

ii) Relief (2 marks)

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c) The diagram below represents zones of natural vegetation on a mountain in Africa. Use it to answer questions (i) and (ii)



i) Name the vegetation zones marked W, X and Y. (3 marks)

ii) Describe the characteristics of vegetations zone marked W. (6 marks)

d) i) Give three impact of climate change on vegetation in Kenya. (6 marks)

ii) You are planning to carry out a field study on a rainforest vegetation.

Identify four challenges you are likely to face. (4 marks)

8.a) i) What is an ice sheet? (2 marks)

ii) Give two reasons why there are no ice sheets in Kenya. (2 marks)

iii) Explain three factors that influence the movement of ice from the place of accumulation. (6 marks)

b) Describe how an arête is formed (4 marks)

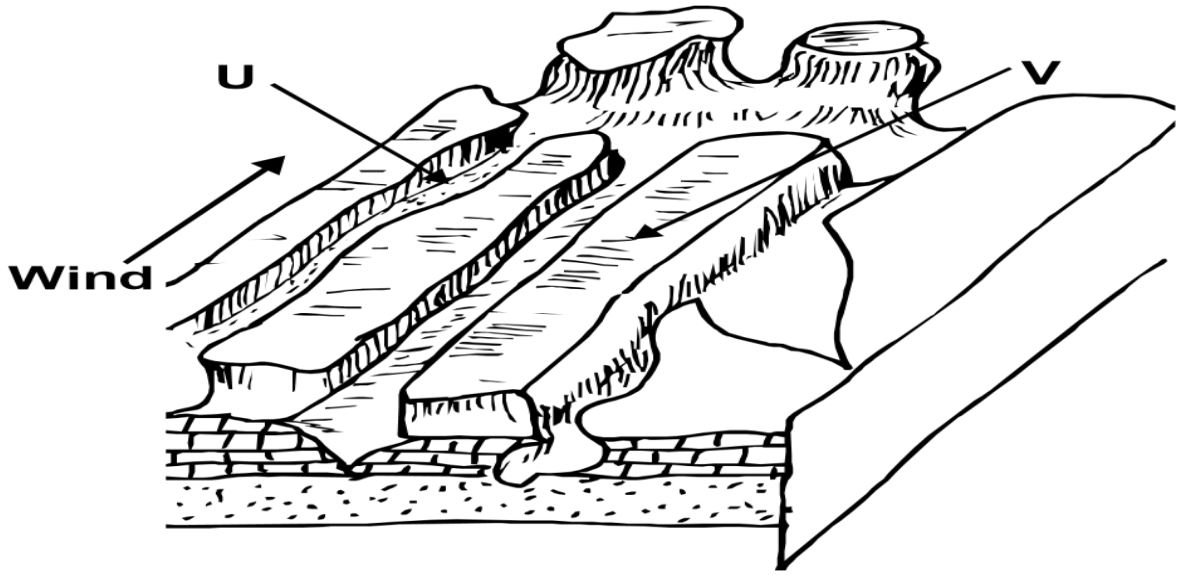
c) i) Name three types of glacial moraines. (3 marks)

d) ii) Explain four positive effects of glaciations in lowland area. (8 marks)

9. a) i) Name the tree ways in which wind erosion takes place. (3 marks

The diagram below represents features resulting from wind erosion in a desert. Use it to answer question a(ii)

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ii) Name the features marked U and V (2 marks) b)

i) Explain how an oasis is formed. (6 marks) ii) Explain four ways in which desert features are of significance to human activities.

(8 marks)

c) You plan to carry out a field study in an arid / desert area. Describe what you are likely to observe. (6 marks)

10. a) Name TWO processes of underground movement of water in limestone areas.

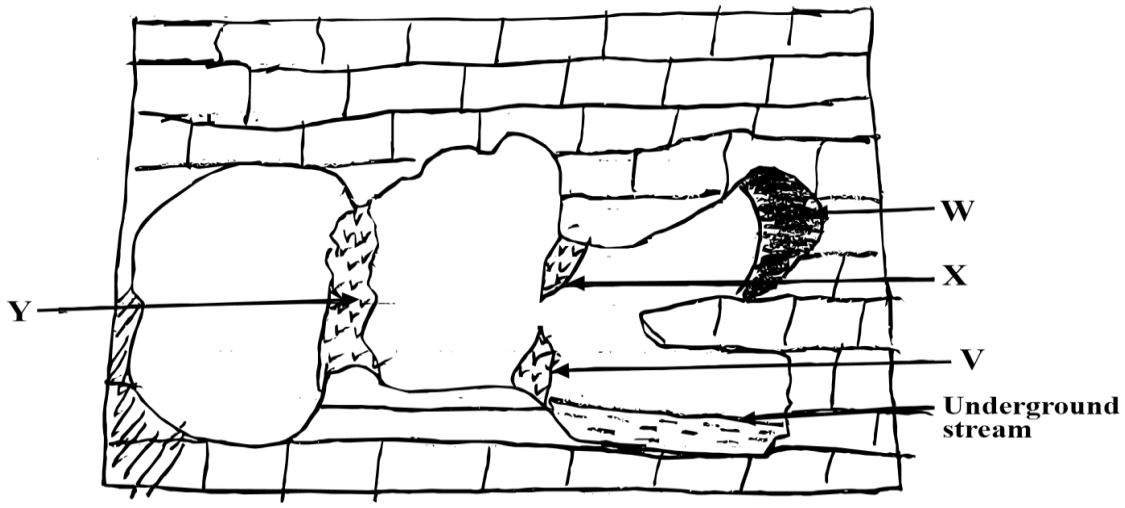
(2 marks)

b) State two factors that influence the occurrence of underground water. (2 marks)

c) The diagram below shows the inner part of a limestone area. Use it to answer the

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questions that follow.



i) Name the features X, V and W. (3 marks)

ii) Describe how the feature marked Y is formed. (6 marks)

d) Explain two factors that influence the formation of features in limestone areas.

(6 marks)

e) Your class is planning a field study of the area eroded by water.

i) Give three reasons why you will need a map of the area of the study.

(3 marks)

ii) Name two erosion features you are likely to observer. (2 marks)

iii) After your study, what recommendations will you give to assist the local community to rehabilitate the area under study. (3 marks)

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KCSE PREMOCK EXAMS

SERIES 001

NAME…… **INDEX NO……**

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312/2

GEOGRAPHY

PAPER 2

TIME: 2 ½ HOURS

Instructions

1. *The paper comprises two sections A and B.*

2. *Answer the questions in section A in the spaces provided.*

3. *In section B, answer each question on separate foolscaps.*

4. *Attempt all the questions.*

SECTION A	
QTN 6	
QTN 7	
QTN 8	
TOTAL	

SECTION A

1.a) Name two tree species of high commercial value in a coniferous forest. **(2mks)**

b) State three characteristics of Tropical hardwood forests which hinder exploitation. **(3mks)**

2. State two factors that influence exploitation of minerals. **(2mks)**

b) Describe how soda ash is extracted in Lake Magadi. **(3mks)**

3.a) i) Distinguish between population distribution and population density. **(1mk)**

ii) What is dependency ratio? **(1mk)**

b)State three reasons for reduced fertility rate in Kenya. **(3mks)**

4. a) i)Name two dairy cattle breeds reared in Kenya. **(2mks)**

b)State three differences between beef farming in Argentina and Kenya. **(3mks)**

5.a) Give two advantages of wood as a source of fuel. **(2mks)**

b)State three conditions necessary for the formation of Oil. **(3mks)**

SECTION B

6. Study the table below that shows Kenya's visible balance of Trade with some selected countries. 1982-1984 (figures in pounds '000).

County	**1982**		**1983**		**1984**	
	Exports	**Imports**	**Exports**	**Imports**	**Exports**	**Imports**
UK	72,000	135,000	96,000	120,000	140,000	152,000
Germany	60,500	75,5000	82,000	70,000	98,000	98,000
USSR	4,500	150	3,000	100	4,000	300
U.S.A	35,000	54,000	40,000	56,000	38,000	50,000
Uganda	58,000	1,300	7,2000	800	67,000	100,000

a)i) Draw a comparative line graph showing the exports from 1982 to 1984 using a vertical scale of 1:10 million and horizontal scale. **(8mks)**

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ii) State three disadvantages of this graph experienced during the construction. **(3mks)**

b) i) Define balance of trade. **(2mks)**

ii) Calculate the balance of trade for Kenya 1984. **(2mks)**

c. i) Name two major exports and two major imports of Kenya. **(4mks)**

ii)Give three reasons for the nature of Kenya's balance of trade from the table above. **(3mks)**

d) State three measures the government has taken to achieve a favourable balance of trade.

7.a) i) Name two provinces in Canada where wheat is grown. **(2mks)**

ii) Explain four physical factors favouring wheat growing in Kenya. **(8mks)**

b) Compare wheat farming in Kenya and Canada under the following headings:

- cultivation **(2mks)**
- harvesting **(2mks)**
- marketing **(2mks)**

c. i) Explain three human and economic problems facing wheat farming in Canada. **(6mks)**

ii) State three importance of wheat farming in Canada. **(3mks)**

8.a.i) Name two countries found in the north West pacific fishing ground. **(2mks)**

ii) Explain four physical factors that favour fishing in the above fishing ground. **(8mks)**

b) Describe the following methods of fishing:

i) drifting **(4mks)**

ii) purse seine **(4mks)**

c) compare fishing in Kenya and Japan under the following sub-headings:

i) fishing ground **(2mks)**

ii) climate **(2mks)**

d) State 3 significance of fishing to the economy of Kenya. **(3mks)**

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KCSE PREMOCK EXAMS

SERIES 001

NAME…… **INDEX NO……**

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101/1

ENGLISH

PAPER 1: FUNCTIONAL SKILLS

TIME: 2 HOURS

Instructions to candidates

1) *Write your name and index number in the spaces provided.*
2) *Sign and write the date of the examination.*
3) *Answer all the questions in this question paper*
4) *All your answers must be written in the spaces provided.*
5) *Candidates should answer all the questions in English.*

QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
1	20	
2	10	
3	30	
TOTAL		

1. Imagine you had some guests from Sweden who visited you to celebrate your birthday. They enjoyed the special meal that you had prepared for them. One of them has requested for the recipe. Send it by e-mail. **(20mks)**

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2. CLOZE TEST

The broadened freedom of speech bestowed upon people ---------- the rise of social media platforms does have its merits, as many now ----------a platform where they can ---------- their concerns about injustices within the society. ----------, everything has its good things and bad things as ----------. The freedom on social media has also rendered these avenues ----------grounds for hate ----------. Many use it to promote their bigoted ideology. They encourage hatred ---------- warring individuals or parties simply because they are ---------- to the views, beliefs, or behavior that differ from ----------.

3. ORAL SKILLS

Read the oral poem below and respond to the questions that follow.

A BAREFOOT BOY

A barefoot boy! I mark him at his play…
For May is here once more, and so is he,…
His dusty trousers, rolled half to the knee,
And his bare ankles grimy, too, as they:
Cross- hatchings of the nettle, in array
Of feverish stripes, hint vividly to me
Of woody pathways winding endlessly
Along the creek, where even yesterday
He plunged his shrinking body – gasped and shook
Yet called the water 'warm' with never lack
Of joy. And so, half enviously I look
Upon this graceless barefoot and his track,…
His toe stubbed…, his big toe-nail knocked back
Like unto the clasp of an old pocketbook.

i) Identify and illustrate two devices that make the poem musical. (2mks)

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ii) How would you effectively recite line 13 of this poem? (2mks)

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iii) Which word would you stress in line 12? Give a reason. (2mks)

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b) One of the features in listening skills is maintaining a meaningful eye-contact with the speaker. Why do you think it is important to do so? (3mks)

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c) Consider the following oral literature item.

Mi moet moet a moita (There is a wound in a calf's stomach)

i) Classify the above genre (1mk)

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ii) Identify and illustrate two features of sound in the above genre. (2mks)

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iii) Explain what is lost if the item above is translated from its original language. (2mks)

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iv) Give one role of the above item (1mk)

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d) Underline the silent letter(s) in the following words (3mks)

i) sword

ii) debris

iv)grandmother

iv) bouquet

v) victual

vi)corps

e) Which is the odd one out in the following groups of words based on the underlined sounds? (3mks)

a) b<u>ee</u>r b<u>are</u> b<u>ear</u> p<u>air</u>

b) tou<u>gh</u> gira<u>ffe</u> dou<u>gh</u> photogra<u>ph</u>

c) <u>h</u>onest <u>h</u>onour <u>h</u>eifer <u>h</u>eir

f) For each below, provide another that is identical in pronunciation. (4mks)

i) clue

ii) sole

iii) board

iv) tear

e) Imagine you are the leader of a discussion group in your class. How would you ensure that the discussion is fruitful. (5mks)

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KCSE PREMOCK EXAMS

SERIES 001

NAME…… **INDEX NO……**

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101/2

ENGLISH

PAPER 2

Comprehension, Literary Appreciation and Grammar
Time: 2 ½ Hours

(a) COMPREHENSION

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

Technology is basically the way we execute the discoveries of science and **blend** it with our own needs. Technology is a general term used to refer to the different tools, machines, and equipment we use in everyday life. These tools and equipment have been invented by man to make the tasks faster, easier and more comfortable.

Since the invention of the wheel and the use of microchips in computers and mobiles, technology has come a long way. Man has reached the moon and explored the outer space just because of the advancement in the aeronautics field. Even in primitive occupations such as agriculture, there have been so many technological advancements with modern tools such as traction engine and steam tractor technology which has helped us make progress.

Although there have been countless examples where technology has changed our lives, there are some which are considered as revolution for mankind. The technology used in the field of robotics is one such fine example. Nowadays robots are being used by people and industries all over the world for various purposes. They are also used in places which are otherwise considered harmful for humans thereby protecting us. One such area is the cleaning and managing of radioactive waste.

Artificial Intelligence (AI) is another field which is a classic example of the technological advancement man has achieved. Who could have imagined that a machine would be capable of thinking like us? That is what AI has been successful in doing. It is an intelligent machine capable of behaving like us. It can do activities such as problem-solving, planning, learning and even reasoning. Today AI is used in all major areas such as warfare, security, healthcare and communication. On top of this, it is far more efficient than us and has a lower rate of error.

Technology has its own importance in our lives. Without technological advancement, our lives would not be simpler and faster. The modernization that the world is witnessing today has all been possible because of the technological developments in different fields. Moreover, it has helped in reducing the risks people had to undertake in many sectors such as mining. With new tools available, the tasks are less risky and are more efficient as well.

Although technological advancements are important for us, it is also true that we seem to be over -dependent on them nowadays. The use of mobiles was meant to be able to keep in touch in difficult times. But now we see kids too much involved in the different applications on mobiles and killing their valuable time. In addition, many crimes have been reported through the misuse of digital technology. Also, it has been seen that many people lack the basic education required to ensure the proper use of the technology available today. In fact, most of them use it for the sake of fashion and hence end up misusing it. People have been so dependent on technology that they no longer want to do any kind of manual activity. Even for small works that can be done manually, people prefer to do it through technology. This has resulted in making humans mentally as well as physically dormant.

Technology is surely a **boon** for mankind. It is all the more important for the economic growth of a country. Modern technologies have in fact succeeded in reducing the human effort and the risk in doing a lot many things. But, still, it is for us to see how best we make use of the technology available to us.

While on one hand we can make use of technological advancements of nuclear energy to generate electricity and help many villages lighten us, on the other hand the same nuclear energy can be used to create bombs which can cause **mammoth** destruction. Similarly, robots and other technological advancements have served as a good servant to us but the moment it becomes the master it can wipe all humanity from the earth.

Questions

(i) What is technology according to the passage **(2marks)**

(ii) State two prominent ways in which technology has changed lives according to the passage. **(2marks)**

(iii) How has technology been important to human beings according to the passage? **(3marks)**

(iv) How has advancements in the field of aeronautics changed this field? **(2marks)**

(v) Make notes on the drawbacks of technology. **(4marks)**

(vi) Technology is surely a boon for mankind. **(1mark)**

Begin: Surely……..

(vii) Discuss the writer's mixed thought on technology? **(3marks)**

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

(a) Blend
(b) Mammoth
(c) Boon

(b) **EXCERPT**

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

"In Nakuru, this was not a subject that concerned us much. But in Nasila it is on every lip."
"Yes, that's very true," Resian said trying to entice her mother to say more. "The other day Taiyo learnt from Joseph Parmuat that female circumcision was initiated by women themselves about two hundred years earlier. And that it was as a result of sexual abuse and harassment by an invading despot called Olarinkoi and his warriors. Is that true *Yeiyo*? I thought it was one of those myths that were created by men to blame women for everything that works against them."
"What Joseph Parmuat told Taiyo is factually correct," her mother told her confidently. "It was the shame and anger that was provoked by Ilarinkon taunts, lewd teasing and provocative posturing that made the women do what they did to **curtail** those desires the worthless predators exploited to prey upon them."
"That may have been true then.' Resian said looking directly into her mother's eyes. "But what is the reason for doing it today? Ilarinkon are no longer with us, or are they?"
"The original Ilarinkon may have gone," her mother said unconvincingly, "but other Ilarinkon are still with us."
"Exactly!" said Resian triumphantly. "Yes, it's the latter day Ilarinkon who are wreaking havoc on us women. Surely, *Yeiyo*, if one discovered a nasty but potent medicine that once taken cured an **ailment**, must they continue to swallow it every day – ten years down the line? I find that absurd. The sensible thing would be to discard the bitter medicine once people are cured. Period! Tell me *Yeiyo*, what use is FGM to today's woman?"
"Are you suggesting that it is men who continue to perpetuate this cultural rite?" her mother asked **perplexed** by her daughter's argument.
"Yes, they are creators of the labyrinth that the women continue to meander around," she said philosophically. "Even if I am reluctantly convinced that it was women and not men who initiated the obnoxious ritual, who provoked the women to do so? The Ilarinkon who were purported to have pushed women into mutilating their sexuality were men. And the ancient Ilarinkon were no different from today's Ilarinkon. The ancient Ilarinkon were sadists and despotic. Today's Ilarinkon are worse. In addition to being despotic, they are oppressive tyrants; 'and one of their ways of oppressing us is to demand that F G M be perpetuated against us forever!"

Questions:

(i) Resian is fond of her sister Taiyo. Why is Taiyo not here at this moment? Explain the significance of her absence. **(3marks)**

(ii) Discuss **two** themes evident in the excerpt. **(4marks)**

(iii) In your words rephrase the origin of FGM **(3marks)**

(iv) Describe **two** character traits of Resian as brought out in the excerpt. **(4marks)**

(v) 'The original Ilarinkon may have gone," her mother said unconvincingly, "but other Ilarinkon are still with us."
Change into reported speech **(1mark)**

(vi) Today's Ilarinkon are worse *(add a question tag)* **(1 mark)**

(vii) Identify the main style used in this excerpt. State its **two** significances **(3marks)**

(viii) Describe the events that occur soon after this excerpt. **(4marks)**

(ix) Give the meaning of the following words as used in the excerpt. **(3marks)**

(a) Curtail…….
(b) Ailment……..…….
(c) Perplexed…….

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

TOUCH BY HUGH LEWIN

When I get out
I'm going to ask someone
Touch me
Very gently please
And slowly,
Touch me
I want
To learn again
How life feels

I've not been touched
For seven years
For seven years
I've been untouched
And I've learned
To know now
The meaning of
Untouchable.
Untouchable – not quite
I can count the things
That have touched me.

One: fists
At the beginning
Fierce mad fists
Beating beating
Till I remember

Screaming
Don't touch me
Please don't touch me

Two: paws
The first four years of paws
Every day
Patting paws, searching
Arms up, shoes off
Legs apart-
Probing paws, systematic
Heavy indifferent
Probing away
All privacy.

I don't want fists and paws
I want
To want be touched
Again
And touch.
I want to feel alive
Again
I want to say
When I get out
Here I am
Please touch me.

(From poets to the people, edit by Barry Feinberg)

Questions

(a) Where do you think the person is? Briefly explain your answer. **(3marks)**

(b) What do you the persona means by "touch"? **(3marks)**

(c) Using two illustrations, describe the persona's experience during the seven years. **(4marks)**

(d) What is the significance of the word 'paws'? **(2marks)**

(e) Which device does the poet use to reinforce the theme? **(2marks)**

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

1. Prodding

2. Indifferent.

(g) What does the poet use to reveal about human need? **(4marks)**

(d) <u>GRAMMAR</u>

(b) In the sentences below, use the correct form of the words in brackets. **(2marks)**

(i) You will have to pay for the ……..……. of the house. (maintain)

(ii) The support staff decided to wait for the outcome of the ……..…… (deliberate)

(c) Rewrite the sentences according to the instruction given without changing its meaning. **(2marks)**

(a) A good thing about our small town is that the crime rate is low.

Begin:

That……

(b) My father would not allow us to attend night parties under any circumstances. *(Begin: Under…..)*

(d) Explain the difference in meaning of each of the following pairs of sentences. **(2marks)**

Even I attend the graduation ceremony

I even attended the graduation ceremony

(e) Choose the more appropriate pronoun to fill in the blank spaces. **(2marks)**

(a) Chebet thanked her aunt, from ……..she had received the phone. (whom, who)

(b) Either you or ……..will be the leader on the trail. (me, I)

(f) Rewrite by correcting the errors in the sentences. **(2marks)**

(a) Lets decide whom will start the game.

(b) It's news are not difficult to understand

(g) Replace the underlined idiomatic expression using a single word. **(1mark)**

The student complained that her father was <u>close-fisted</u>

(h) Replace the phrasal verbs underlined in the sentences below with one word that means the same. **(2marks)**

1. It is wrong to <u>look down on</u> students from other schools.
2. Bicoty <u>takes after</u> her father.

(i) Choose the correct order of adjectives in brackets to fill in the gaps. **(2marks)**

(a) My……..……..laptop is very efficient. (small, old, ugly, grey, Samsung)

(b) Oloisudori gave Resian an expensive ring in a ……...……. box. (metal, square, small)

KCSE PREMOCK EXAMS

SERIES 001

NAME…… **INDEX NO……**

SCHOOL…… **SIGN……**

ENGLISH

PAPER 3
(Creative Composition and Essays Based on Set Texts)

Time: 2 ½ hours.

Answer Three Questions Only

1. Imaginative composition (compulsory) **(20 marks)**

Either
Write a composition that has the following: explosion, crowd, siren and hospital.

Or

Write a composition explaining what the government of Kenya should do to end the rising number of teenage pregnancies in schools.

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

Henrik Ibsen, *A Doll's House*
"Women are largely unappreciated for the roles they play in Henrik Ibsen's A Doll's House." With illustrations, discuss the validity of this statement.

3. The Optional Set Text **(20marks)**

*Answer any **one** of the following **three** questions.*

Either

(i) The Short Story.

Moran (Ed), *Memories We Lost and Other Stories*

Basing your answer on Leo Tolstoy's *How Much Land Does One Need?* Show how lack of contentment with what one has leads to destruction.

Or

(ii) Drama

David Mulwa: *Inheritance*

"Citizens suffer due to bad leadership". Discuss the truth of this statement basing your arguments on David Mulwa's *Inheritance.*

Or

(iii) The Novel

John Steinbeck, *The Pearl*

"Family members always want the best for us". Write an essay to validate this claim basing your illustrations from John Steinbeck's *The Pearl.*

KCSE PREMOCK EXAMS

SERIES 001

NAME…… **INDEX NO……**

SCHOOL…… **SIGN……**

451/1

COMPUTER STUDIES

Paper 1

Time: 2 ½ Hours

INSTRUCTIONS TO CANDIDATES

- *Write your **name, School** and **index number** in the spaces provided above.*
- *This paper consists of Two sections **A & B***
- *Answer **ALL** the questions in Section **A***
- *Question 16 is compulsory*
- *Answer any **THREE** questions in section **B***
- *All answers to ALL questions must be written in the spaces provided in the question paper*

FOR EXAMINERS USE ONLY

SECTION	QUESTION	MAXIMUM MARKS	CANDIDATES SCORE
A	1-15	40	
B	16	15	
	17	15	
	18	15	
	19	15	
	20	15	
TOTAL SCORE		100	

SECTION A (40 MARKS)

Answer all the questions in this section in the spaces provided

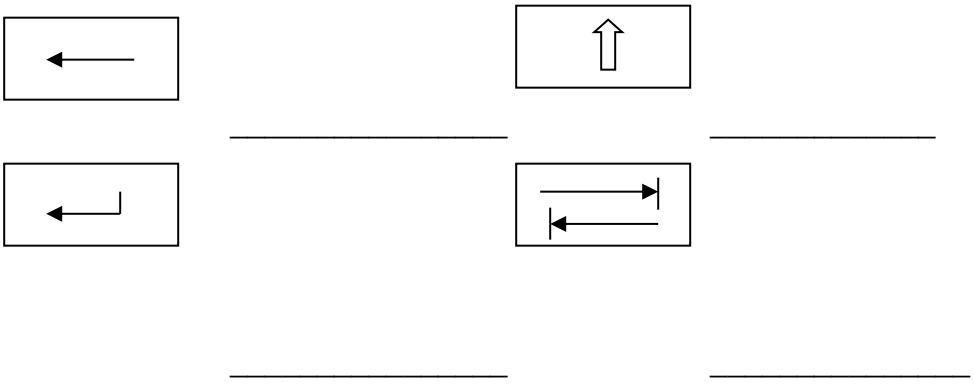
1. State any **two** peripheral devices that are powered by the system unit. **(1 mk)**

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2. The following are symbols of some keys found on the keyboard. Name the keys represented by the symbols. **(2 mks)**



_____ _____

_____ _____

3. Explain any **three** functions of system software in a computer **(3mks)**

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4. As a computer student you have been asked to assist in buying an input device. State any **four** factors to consider when buying input devices. **(4mks)**

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5. i. The arithmetic logic unit, the control unit and the main memory use electrical pathways or links called buses. State and explain the three types of buses. **(3mks)**

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ii. What is the role of special purpose memories in the microprocessor? **(1 mk)**

……

……

……

6. Outline the **three** differences between primary memory and secondary memory. **(3mks)**

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……

7. Citing relevant examples state **two** advantages of integrated software as opposed to single purpose. **(2mks)**

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8. a. Define the term mail merging **(1 mk)**

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……

b. Name **two** files that are created in mail merging process **(1mks)**

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9. (a) Distinguish between a workbook and a worksheet as used in spreadsheets **(2mks)**

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(b) What is the meaning of "what if analysis" with respect to spreadsheet? **(1mk)**

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10. Define the following terms in relation to internet **(2 mks)**

i). Downloading

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ii). Hyperlink

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……

……

11. Benjos was instructed by his teacher while typing a Microsoft word document to replace all the occurrences of the word MS with Microsoft. Highlight the steps to do this **(3mks)**

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12. What is the difference between logical and physical file? **(2mks)**

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13. Explain any **three** types of computer processing files. **(6mks)**

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14. Give a reason why HTML is not considered as a true programming language. **(1mk)**

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15. (a) Define the following computer crimes

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

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(ii) Industrial espionage **(1mk)**

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SECTION B (60 MARKS)

Answer questions 16 (COMPULSORY) and any other three questions in this section

16. (a) Draw a flowchart for a program that is to prompt for N numbers, accumulate the sum and them find the average. The output is the accumulated totals and the average. **(5 mks)**

(b) Write a pseudo code for the above program. **(4 mks)**

(c) Explain **three** types of control structures use in programming. **(3mks)**

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……

17. (a) i. Subtract 110_2 from 11010_2 (1mk)

ii. Find the sum of binary number 101.101_2 and 110.100_2 (1mk)

(b) i. Convert binary number 11010110.1001_2 into octal number. (1mk)

ii. Convert binary number 11010110.1001_2 into hexadecimal number. (1 mark)

(c) Convert the following numbers to their decimal equivalent

i. 11.011_2 (2 marks)

ii. 0.11011_2 (2 mrks)

(d) i. Convert $3BD_{16}$ to Octal. (3mks)

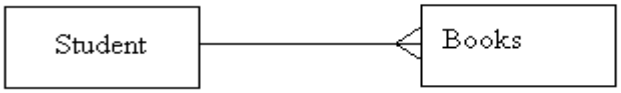
ii. Using one's complement, calculate $5_{10} - 9_{10}$. use six bit in your calculation. (3mks)

(e) State the following types of transcription errors: (2 marks)

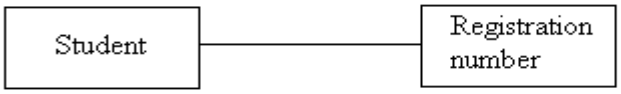
i. 3455 instead of 3456

ii. Simth instead of Smith

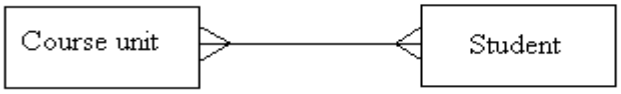
18. (a) State and explain the following types of relationship as used in database design

i. 

(2 marks)

ii. 

(2 marks)

iii. 

(2 marks)

(b) i. Explain the difference between primary key and an index key as used in database application (2 marks)

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ii. Outline the functions of a primary key **(2 marks)**

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(c) Describe the following types of database model

i. Network model **(2 marks)**

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ii. Relational model **(2 marks)**

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19. (a) i. What is an operating system? **(1 mark)**

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ii. Maintaining security is one of the functions the operating system. Explain how the operating system maintains security (2mks)

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……

iii. Explain how an operating system controls I/O devices. **(2mks)**

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(b) What does the following control measures against computer crime involve? **(5 mks)**

i. Audit trail

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……i

i. Data encryption

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iii. Log files

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iv. Passwords

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v. Firewall

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(c) Briefly explain what happen during power on self test (POST) (3 mks)

……

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……

(d) Explain the functions of complementary metal-oxide semiconductor (CMOS) (2 mks)

……

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……

20. a) State **two** advantages and two disadvantages of the ring network topology

Advantage (2mks)

……

……

……

Disadvantages **(2mks)**

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……

b) State **two** roles and responsibilities of each of the following ICT professionals

i) Webmaster **(2mks)**

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ii) Network Administrator (2mks)

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iii) Computer scientists (2mks)

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iv) System Administrator **(2mks)**

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v) Software Engineer (2mks)

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c) Explain the term accreditation as used in education **(1mk)**

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KCSE PREMOCK EXAMS

SERIES 001

NAME…… **INDEX NO……**

SCHOOL…… **SIGN……**

451/2

COMPUTER STUDIES

PAPER 2

(PRACTICAL)

2 ½ Hours

INSTRUCTIONS TO CANDIDATES

a) *Indicate your name and index number at the top right hand corner of each printout*
b) *Write your name and index number on the CD/Removable storage media provided*
c) *Write the name and version of software used for each question attempted in the answer sheet provided*
d) *Answer all questions*
e) *All questions carry equal marks*
f) *Passwords should not be used while saving in the CD/Removable storage medium*
g) *All answers must be saved in the CD/Removable storage medium*
h) *Make printout of the answers on the answer sheet*
i) *Arrange your printout and ties/staple them together*
j) *Hand in all printouts and the CD/Removable storage medium used*
k) *This paper consists of four printed pages*
l) *Candidates should check the question paper to ascertain all the pages are printed as indicated and that no question is missing*
m) *Candidates should answer the questions in English*
n) *ALL Data for currency data type should be formatted to Kenya Shillings*
o) *All the system Date and Time should be set to correct Kenya time and Date settings*

FOR KCSE RESOURCES &MARKING SCHEMES CONTACT 0746 222 000

QUESTION ONE

a) The data below shows a spreadsheet for loan applicants from a youth fund from a certain county.

MEMBER NO	NAME	DATE OF BIRTH	DATE OF APPLICATION	GENDER	AGE	AMOUNT APPLIED
A001	ABC	1/3/1992	1/1/2016	M		Ksh 200,000.00
B001	CDE	2/6/1999	3/1/2016	F		Ksh 600,000.00
C008	FGH	5/6/1992	3/1/2016	M		Ksh 400,000.00
K001	JKL	2/7/1990	7/1/2016	F		Ksh 700,000.00
S007	MNO	2/9/1960	7/1/2016	M		Ksh 600,000.00
Z006	KRS	4/8/1992	2/2/2016	M		Ksh 500,000.00
A008	TUV	4/8/1960	3/2/2016	M		Ksh 700,000.00
B005	CED	2/6/1995	5/2/2016	F		Ksh 600,000.00
C011	HGF	5/6/1990	10/2/2016	M		Ksh 400,000.00
K012	LKJ	2/7/1970	6/1/2016	M		Ksh 700,000.00
S019	NOM	2/9/1991	4/6/2016	M		Ksh 600,000.00

Type the data as shown in the spreadsheet above name the worksheet as Original save the workbook as application. **(14 Marks)**

(b) Copy the worksheet named original above to another worksheet in the same workbook and name it as Evaluation.

(i) Fill the column for the (AGE) which is the difference between DATE OF APPLICATION and

DATE OF BIRTH in years to the nearest whole number. (6 Marks)

(ii) Create a validation in the DATE OF APPLICATION such that it should be after DATE OF BIRTH. (2 Marks)

(iii) Format all columns having currency Data type to Kenya shilling. (2 Marks)

(iv) Create the columns COMMENT and AMT AWARDED.

The COMMENT is based on the following

- I f the gender is male and the age by the data of applicable is greater than 30 years the COMMENT is INELIGIBLE otherwise ELIGIBLE.

- Amount awarded if a person is eligible if 80% of the amount applied.

(v) Fill in the two columns for the AMOUNT AWARDED and COMMENT using the formula. If an

applicant is INELIGIBLE the amount awarded is left blank. (10 Marks)

(c) Copy the worksheet named Evaluation above to another worksheet in the same workbook and name it as final.

(i) Filter out data in the final in the final worksheet leaving out those who have been awarded a

loan. (2 Marks)

(ii) Create a table showing the total amount awarded to all Males and total awarded to Females

and total for both male and females. In the sample table below fill in the values using conditional if statement . (6 Marks)

	AMOUNT(Ksh)
MALE	
FEMALE	
Total	

(iii) Draw a pie chart representing the total amount for males awarded and females warded

(2 Marks)

(d) Print the following: (4 Marks)

(i) Original worksheet

(ii) Evaluate worksheet

(iii) Final worksheet

(iv) The pie chart

FOR KCSE RESOURCES &MARKING SCHEMES CONTACT 0746 222 000

QUESTION TWO

The table below an extract of a manual data structure system used by a librarian of a particular school

ADM NO	S_NAME	CLASS	BOOK_NO	TITLE	BORROW TYPE	DATE_BORROWED	DATE_RETURNED
123	MIKE	1A	B001	COMPTER STUDIES BK 1	SHORT	2-1-2016	12-1-2016
456	JOHN	1B	A002	COMPREHENSIVE ENG BK 1	LONG	1-2-2016	17-1-2016
789	ADREW	1C	B003	KIE MATHEMATICS BK 1	LONG	1-3-2016	14-3-2016
987	JAMES	2A	D004	LONGHORN GEOGRAPHY BK2	SHORT	1-4-2016	8-4-2016
654	JACOB	2B	K005	KISWAHILI SHAIRI BK2	SHORT	1-5-2016	9-5-2016
321	NANCY	2C	B006	MATHEMATICS BK2	SHORT	2-3-2016	10-3-2016
879	MARY	3A	C005	HISTORY BK3	LONG	2-4-2016	17-4-2016
564	MERCY	3B	K009	FOUNDATION CHEMISTRY BK 1	LONG	2-5-2016	14-5-2016
213	PETER	3C	H001	KISWAHILI LUGHA BK 2	LONG	1-4-2016	18-4-2016
123	MIKE	1A	K005	KISWAHILI SHAIRI BK2	SHORT	1-5-2016	19-5-2016

FOR KCSE RESOURCES &MARKING SCHEMES CONTACT 0746 222 000

456	**JOHN**	**1B**	**B006**	**MATHEMATICS BK2**	**SHORT**	**1-4-2016**	**5-4-2016**
789	**ADREW**	**1C**	**C005**	**HISTORY BK3**	**SHORT**	**1-4-2016**	**7-4-2016**
987	**JAMES**	**2A**	**K009**	**FOUNDATION CHEMISTRY BK 1**	**LONG**	**1-5-2016**	**8-5-2016**
654	**JACOB**	**2B**	**H001**	**KISWAHILI LUGHA BK 2**	**LONG**	**1-4-2016**	**22-4-2016**

The library charges 2 shillings per every book borrowed per day, if the book is not returned in time it attracts a penalty of 5 Shilling per day. The short loan is a maximum of seven days while the long loan is 14 days

a) From the table above create a database called library.

(i) Create THREE tables Student(ADMNO as primary key) and Book(BOOK_NO as primary key) and Borrow(Borrow_id as primary key which is auto number). (6 Marks)

(ii) Create relationship between the three tables (2 Marks)

(iii) Fill in the data in the three tables (15 Marks)

b) Create a the following queries

(i) Query named chargesqry for all charges for books on short loan the query should have the following fields(ADMNO,S_NAME,BOOK_NO,TITLE,BORROW TYPE,DATE_BORROWED,DATE_RETURNED,NO_OF_DAYS_BORROWED,NORMAL_CHARGE,PENALTY_CHARGE,TOTAL_CHARGE)(10 Marks)

(ii) Query named shortchargesqry for all charges for books on short loan the query should have the following fields(ADMNO,S_NAME,BOOK_NO,TITLE,BORROW TYPE,DATE_BORROWED,DATE_RETURNED,NO_OF_DAYS_BORROWED,TOTAL_CHARGE) (2 Marks)

FOR KCSE RESOURCES &MARKING SCHEMES CONTACT 0746 222 000

(iii) Query named longchargesqry for all charges for books on long loan the query should have the following fields(ADMNO,S_NAME,BOOK_NO,TITLE,BORROW TYPE,DATE_BORROWED,DATE_RETURNED,NO_OF_DAYS_BORROWED,TOTAL_CHARGE) (2 Marks)

(iv) Create a report showing the total amount which the library has earned between any two dates on short loan save it as shortbetweendatesrpt format the currency data type to Kenya shillings (6 Marks)

(v) Create a report showing the total charged to a student for both long and short loan borrowing in one report save it as studentchrgrpt format the currency data type to Kenya shillings (4 Marks)

c) Print the following (4 Marks)

(i) All tables with data

(ii) Both query with data

(iii) Shortbetweendatesrpt

(iv) studentchrgrpt

KCSE PREMOCK EXAMS

SERIES 001

NAME…… **INDEX NO……**

SCHOOL…… **SIGN……**

441/1

HOME SCIENCE

PAPER 1

THEORY

TIME: 2 ½ HOURS

INSTRUCTIONS TO CANDIDATES

- ***a)*** *Write your name and index number in the spaces provided above.*
- ***b)*** *Sign and write the date of examination in the spaces provided above*
- ***c)*** *This paper consists of THREE SECTIONS A, B and C*
- ***d)*** *Answer all the questions in Section A and B and any two questions from Section C*
- ***e)*** *Answers must be written in the spaces provided in the question paper.*
- ***f)*** *Additional pages MUST NOT be inserted*

SECTION A - (40MKS)

Answer All The Questions In This Section In The Spaces Provided.

1. Mention two methods used to coat food before frying (2mks)

2. Name four foods that can be given to child in the management of kwashiorkor. (4mks)

3. Name two seams commonly used when joining side seams of heavy fabric. (2mks)

4. State two dangers of smoking during pregnancy (2mks)

5. Which two reasons make stainless steel unsuitable for cooking food. (2mks)

6. In two well stated points. Say why babies who are fed on formula diarrhea. (2mks)

7. Mention two advantages of having labels on consumer products. (2mks)

8. Two qualities of a well made sleeve. (2mks)

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9. Suggest four ways of decorating an apron (2mks)

10. State four different forms in which laundry soap is found. (4mks)

11. Mention any two categories of conveniences foods. (2mks)

12. List down any two uses of salt in flour mixtures. (2mks)

13. State two advantages of making personal clothes (2mks)

14. Give any 3 reasons for food preservation. (3mks)

15. Which are the two major forms of malnutrition? (2mks)

16. Outline any 3 precautions to take when using Kerosene as a fuel. (3mks)

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17. Identify any 2 disadvantages of credit buying. (2mks)

18. Outline any 2 characteristics of a well- made French seam. (2mks)

19. State any 2 ways in which sodium is lost in the body (2mks)

20 Mention any three skin infections that can occur if the skin is not given proper care. (3mks)

Answer section B in the spaces provided.

Section B- (20mks) Compulsory

20. You have gone to visit your grandmother over the ½ term break.

a) Launder her loose coloured Lesso. (8mks)

b) Weekly – clean her Hurricane lamp (8mks)

c) Clean a calabash (4mks)

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SECTION C.

SELECT AND ANSWER ANY TWO QUESTIONS FROM THIS SECTION.

22 (a) State four points consider when choosing personal accessories.

(b) State and explain any qualities of a well made in – seam pocket (6mks)

(c) Give any two reasons for each of the following in clothing construction

i) Top stitching

ii) Stay – stitching

iii) Snipping

(d) Giving specific examples of colours from the colour wheel, describe the following colour schemes commonly used in interior decorations.

i) Analogous colour scheme. (2mks)

ii) Split complementary colour scheme (2mks)

(c) Explain 3 points to consider when choosing soft furnishings in the home. (6mks)

(d) Point out four requirements of a good kitchen floor. (4mks)

23. (a) Outline five reasons for finishing plain wooden surfaces. (5mks)

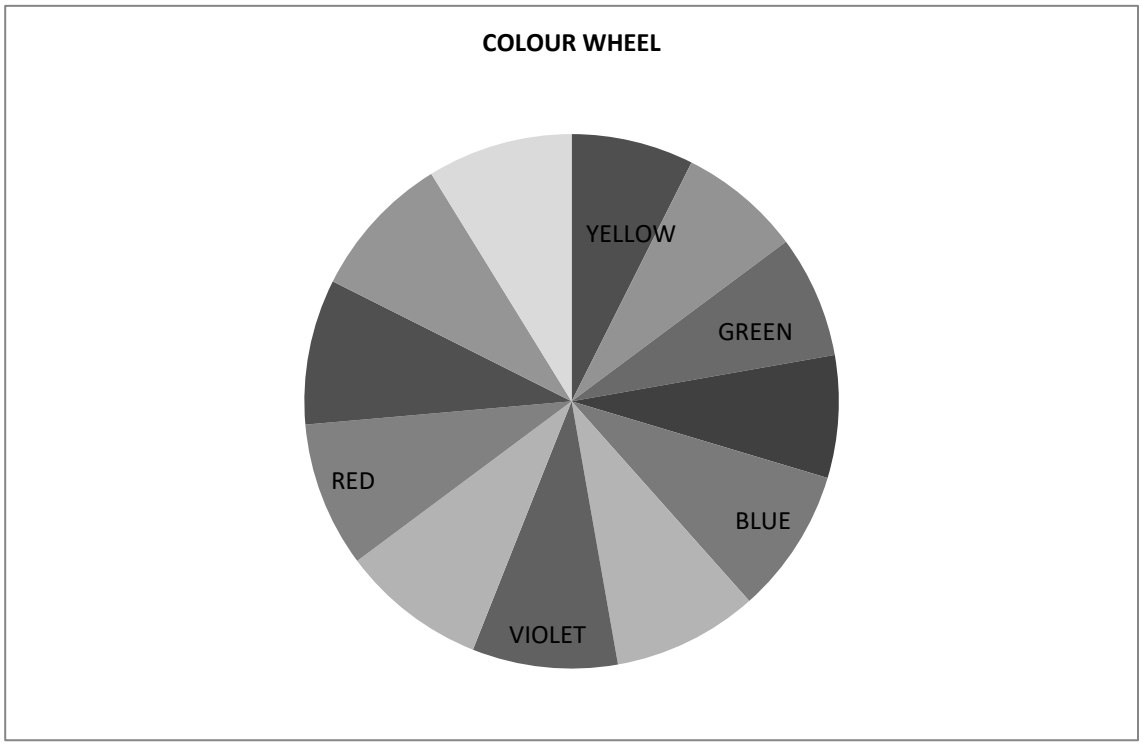
(b) Suggest five practices that are harmful to woolen articles. (5mks)

(c)List down activities at the ante-natal clinic (5mks)

(d) State and explain any five factors to consider when using left over foods. (5mks)

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24. Insert the correct colours in the wheel to show a colour wheel. (5mks)



(d) List down four different types of collars. (4mks)

KCSE PREMOCK EXAMS

SERIES 001

NAME…… **INDEX NO……**

SCHOOL…… **SIGN……**

441/2

HOME SCIENCE

(CLOTHING CONSTRUCTION)

PAPER 2

PRACTICAL

2 ½ HOURS

A Pattern of a child's dress is provided. You are advised to study the sketches, the questions paper and the layout before the test.

1. MATERIALS PROVIDED

Pattern pieces

A Front bodice

B Back bodice

C sleeve

D Collar

E cuff

F Neck binding

G Sleeve opening strip

N.B Use pattern piece D to cut interfacing for collar.

2. Light weight plain cotton fabric 65cm long by 90 cm wide.

3. Sewing cotton thread to match the fabric

4. One button 1 cm in diameter.

THE TEST

Using the materials provided , cut and make the left half of child's dress bodice to show the following:-

1) The working of the waist dart
2) The working of a machine fell seam at the shoulder and French seam at the side and under arm seams.
3) Preparation of an interfaced collar and attaching it to the bodice.
4) The making of the continuous straight strip opening at the sleeve.
5) Attaching of the sleeve cuff
6) The preparation and attaching of the sleeve to the bodice and leaving the seam untrimmed and un neatened.

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7) The making of the button hole
8) The attaching of the button.

At the end of the examination, firmly sew on your work, on a single fabric a label bearing your name and index number. Remove the needles and pins from your work, then fold your work carefully and place it in the envelope provided.

DO NOT put scraps of fabric in the envelope.

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KCSE PREMOCK EXAMS

SERIES 001

NAME…… **INDEX NO……**

SCHOOL…… **SIGN……**

MATHEMATICS

PAPER 1

TIME: 2 ½ HOURS

Instructions to candidates

(a) Write your name, index and class number in the spaces provided above.
(b) The paper consists of two sections**:** ***section I*** and ***section II*****.**
(c) Answer **all** the questions in **section I** and any **five** in **section II**
(d) Section I has **sixteen** questions and section two has **eight** questions
(e) All answers and working must be written on the question paper in the spaces provided below each question.
(f) Show all the steps in your calculations, giving your answers at each stage in the spaces below each question
(g) KNEC Mathematical table and silent non-programmable calculators may be used.

For examiner's use only

Section I

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

Section II

17	18	19	20	21	22	23	24	total

Grand Total

1. Evaluate: **(3 mks)**

$$\left(\frac{\left(1\frac{3}{7}-\frac{5}{8}\right)x\frac{2}{3}}{\frac{3}{4}+1\frac{5}{7}\div\frac{4}{7}of\ 2\frac{1}{3}}\right)^{-2}$$

2. Mr. Kamau son and daughter needed clothes. The son clothes were costing Ksh 324 while the daughter clothes were costing Ksh 220. Mr Kamau wanted to give them equal amounts of money. Calculate the least amount of money he would spend on the two and how many clothes each will buy. **(3 mks)**

3. Use reciprocal tables to find the value of $(0.325)^{-1}$ hence evaluate $\frac{\left(\sqrt[3]{0.000125}\right)}{0.325}$, give your answer to 4 s.f. **(3 mks)**

4. A type of paper is 40cm long, 32 cm wide and 0.8 mm thick. The paper costs sh 10 per m^2. Find the total cost of a pile of such paper of height 4.8m. **(4 mks)**

5. A square based brass plate is 2mm high and has a mass of 1.05kg. The density of the brass is 8.4 g/cm^3. Calculate the length of the plate in centimeter. **(3 mks)**

6. Solve for x in the equation: **(3 mks)**

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$$\frac{x-3}{4} - \frac{x+3}{6} = \frac{x}{3}$$

7. A salesman earns 3% commission for selling a chair and 4% commission for selling a table. A chair fetches K£ 75. One time, he sold ten more chairs than tables and earned seven thousand, two hundred Kenya shillings as commission. Find the number of tables and chairs sold.

(4 mks)

8. Using the three quadratic identities only factorise and simplify: **(3 mks)**

$$\frac{(x-y)^2 - (x+y)^2}{(x^2 + y^2)^2 - (x^2 - y^2)^2}$$

9. Two numbers are in the ratio 3 : 5. When 4 is added to each the ratio becomes 2 : 3. What are the numbers? (3 mks)

10. Given that $\text{Sin}(x + 4^0) = \text{Cos}(3x)^0$. Find $\tan(x + 40^0)$ to 4 s.f. (3 mks)

11. In a regular polygon, the exterior angle is $^1/_3$ of its supplement. Find the number of sides of this polygon. (3 mks)

12. Find the area of a segment of a circle whose arc subtends an angle of $22\ ½^0$ on the circumference of a circle, radius 10cm. (3 mks)

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13. An airplane leaves point A (60^0S, 10^0W) and travels due East for a distance of 960 nautical miles to point B. determine the position of B and the time difference between points A and B. (3 mks)

14. Mr. Onyango's piece of land is in a form of triangle whose dimensions are 1200M, 1800M and 1500M respectively. Find the area of this land in ha. (Give your answer to the nearest whole number). (3 mks)

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15. Two men each working for 8 hours a day can cultivate an acre of land in 4 days. How long would 6 men, each working 4 hours a day take to cultivate 4 acres? (3 mks)

16. Find the equation of a straight line which is perpendicular to the line $8x + 2y - 3 = 0$ given that they intersect at $y = 0$ leaving your answer in a double intercept form. (3 mks)

SECTION B

17. (a) Use the mid-ordinate rule to estimate the area bounded by the curve $y = x + 3x^{-1}$, the x-axis, lines $x = 1$ and $x = 6$. (4 mks)

(b) Find the exact area of the region in (a) above. (3 mks)

(c) Calculate the percentage error in area when mid-ordinate rule is used. (3 mks)

18. A car whose initial value is Ksh 600,000 depreciates at a rate of 12% p.a. Determine:

(a) Its value after 5 years. (4 mks)

(b) Its value of depreciation after 5 years. (2 mks)

(c) The number of year it will take for the value of the car to be Ksh 300,000 (3 mks)

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19. A square whose vertices are P (1,1) Q (2,1) R(2,2) and S (1,2) is given an enlargement with centre at (0,0). Find the images of the vertices if the scale factors are: (3 mks)

(i) -1

(ii) ½

(iii) 3

(b) If the image of the vertices of the same square after enlargement are P^1 (1,1), Q^1 (5,1), R^1(5,5) and S^1 (1,5) find:

(i) the centre of enlargement (2 mks)

(ii) the scale factor of the enlargement (2 mks)

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20. On the graph paper provided plot the point P (2,2) Q (2,5) and R (4,4).

(a) Join them to form a triangle PQR. (1 mk)

(b) Reflect the triangle PQR in the line X = 0 and label the image as P^1 Q^1 R^1. (2 mks)

(c) Triangle PQR is given a translation by vector. T $\begin{pmatrix}2\\2\end{pmatrix}$ to P^{11} Q^{11} R^{11}. Plot the triangle P^{11} Q^{11} R^{11}. (3 mks)

(d) Rotate triangle P^{11} Q^{11} R^{11} about the origin through -90^0. State the coordinates of P^{111} Q^{111} R^{111}. (3 mks)

(e) Identify two pair of triangles that are direct congruence. (1 mk)

21. Three warships P, Q and R are at sea such that ship Q is 400 km on a bearing of $N30^0$ E from ship P. ship R is 750 km from ship Q and on a bearing of $S60^0E$ from ship Q. an enemy warship is sighted 1000 km due south of ship Q.

(a) Use scale drawing to locate the position of ships P, Q, R and S. (4 mks)

(b) Find the compass bearing of: (2 mks)

(i) Ship P from ship S

(ii) Ship S from ship R

(c) Use scale drawing to determine: (2 mks)

(i) The distance of S from P

(ii) The distance of R from S

(d) Find the bearing of: (2 mks)

(i) Q from R

(ii) P from Q

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22. The table below shows the amount in shillings of pocket money given to students in a particular school.

Pocket money (Kshs)	201 – 219	220 – 229	230 – 239	240 – 249	250 – 259	260 – 269	270 – 279	280 – 289	290 – 299
No. of students	5	13	23	32	26	20	15	12	4

(a) State the modal class. (1 mk)

(b) Calculate the mean amount of pocket money given to these students to the nearest shilling. (4 mks)

(c) Use the same axes to draw a histogram and a frequency polygon on the grid provided. (5 mks)

23. Given that points X (0,-2), Y (4, 2) and Z (x,6);

(a) Write down the column vector $\overrightarrow{XY}$. (1 mk)

(b) (i) Find $\left|\overrightarrow{XY}\right|$ leaving your answer in index form. (3 mks)

(ii) Given that $\left|\overrightarrow{XZ}\right|$ = 11.3170, find the coordinates of Z. (3 mks)

(c) Find the mid-point of the line YZ. (3 mks)

24. A bus and a matatu left Voi from Mombasa, 240 km away at 8.00 am. They travelled at 90 km/h and 120 km/h respectively. After 20 minutes the matatu had a puncture which took 30 minutes to mend. It then continued with the journey.

(a) How far from Voi did the catch up with the bus. (6 mks)

(b) At what time did the matatu catch up with the bus? (2 mks)

(c) At what time did the bud reach Mombasa? (2 mks)

FOR KCSE RESOURCES &MARKING SCHEMES CONTACT 0746 222 000

KCSE PREMOCK EXAMS

SERIES 001

NAME…… **INDEX NO……**

SCHOOL…… **SIGN……**

MATHEMATICS

PAPER 2

TIME: 2 ½ HOURS

Instructions to candidates

(a) Write your name, index and class number in the spaces provided above.
(b) The paper consists of two sections**:** ***section I*** and ***section II*****.**
(c) Answer **all** the questions in **section I** and any **five** in **section II**
(d) Section I has **sixteen** questions and section two has **eight** questions
(e) All answers and working must be written on the question paper in the spaces provided below each question.
(f) Show all the steps in your calculations, giving your answers at each stage in the spaces below each question
(g) KNEC Mathematical table and silent non-programmable calculators may be used.

For examiner's use only

Section I

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

Section II

17	18	19	20	21	22	23	24	total

Grand Total

1. Without using logarithm tables or calculator, solve $3^{2x+3} - 28\,(3^x) + 1 = 0$. (3 mks)

2. Use a mathematical table to evaluate: (3 mks)

$$\left(\frac{4.28\ x\ 0.01677}{\tan 20}\right)^{\frac{1}{5}}$$

3. Simply and leave answer in surd form. (3 mks)

$$\frac{-9}{\sqrt{13}+\sqrt{3}} - \frac{5}{\sqrt{3}-\sqrt{13}}$$

4. The sides of triangles were measured and recorded as 8.4 cm, 10.5 cm and 15.3. Calculate the percentage error in perimeter correct to 2 d.p. (3 mks)

5. Simplify: (3 mks)

$$\frac{\log 16 + \log 81}{\log 8 \ + \ \log 27}$$

6. Simplify the expression: (4 mks)

$$\frac{(-36+ 9x^2)+ (-6y+3xy)}{3x-6}$$

7. Given that $\frac{x(x^2-1)}{x+1}$, find dy/dx at the point (2,4). (3 mks)

8. (a)Expand and simplify the expression $\left(10 + \frac{2}{x}\right)^5$ (2 mks)

(b) Use the expression in (a) above to find the value of 14^5. (1 mk)

9. John buys and sells rive in packets. He mixes 30 pockets of rive A costing sh 400 per packet with 50 packets of another kind of rive B costing sh 350 per packet. If he sells the mixture at a gain of 20%, at what price does he sell a pocket? (3 mks)

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10. A chord of AB of length 13cm subtends an angle of 670 at the circumference of a circle centre O. find the radius of the circle. (3 mks)

11. Find the coordinates of the image of a point (5, -3) when its rotated through 180^0 about (3,1). (3 mks)

12. Two points P (-3,-4) and Q (2,5) are the points on a circle such that PQ is the diameter of the circle. Find the equation of the circle in the form $ax^2 + by^2 + cx + dy + e = 0$ where a, b, c and e are constants. (4 mks)

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13. Two metal spheres of radius 2.3 cm and 2.86 cm are melted. The molten material is used to cast equal cylindrical slabs of radius 8 mm and length 70mm. If $^{1}/_{20}$ of the meal is lost during casting. Calculate the number of complete slabs cast. (3 mks)

14. A right pyramid has a rectangular base of 12 cm by 16cm. its slanting lengths are 26 cm. Determine:

(a) The length of AC (1 mk)

(b) The angle AV makes with the base ABCD. (2 mks)

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15. Determine the inverse, T^{-1} of the matrix T $\begin{pmatrix} 4 & 6 \\ 6 & -2 \end{pmatrix}$ hence solve : (3 mks)

$2x + 3y = 30$

$3x - y = 10$

16. Use squares, square roots and tables to evaluate: (3 mks)

$3.045^2 + (49.24)^{-1/2}$

SECTION B

17. The table below shows the frequency distribution of diameter for 40 tins in millimeters.

Diameter (mm)	130 – 139	140 – 149	150 – 159	160 – 169	170 – 179	180 – 180
No of tins	1	3	7	13	10	6

Using a suitable working mean calculate:

(a) The actual mean for the grouped lengths. (4 mks)

(b) The standard deviation of the distribution. (6 mks)

18. A $^{3}/_{2}$ Bao yearly plan is a school pocket money (SPM) saving scheme requiring 12 months payments of a fixed amount of money on the same data each month. All savings earn interest at a rate of p% per complete calendar month.

Lewis Kamau decides to invest K£ 30 per month in this scheme as advised by Gumbo and Oteinde 4Q and 4P class governors a.k.a class secretaries and witnesses by very determined mathematics. Martine Mutua Mukumbu (M^3) and makes no withdrawals during the year.

(a) Show that after 12 compelete calendar months, Lewis first payment has increased in value to K£ 30 r^{12}, where $r = 1 + \frac{P}{100}$ (4 mks)

(b) Show that the total value, after 12 complete calendar months, of all 12 payments is

K£ 30 $r = \frac{r(r^{12}-1)}{(r-1)}$ (3 mks)

(c) Hence calculate the total interest received during the 12 months when the monthly rate of interest is ½ per cent. (3 mks)

19. A mobile dealer sells phones of two types: Nokia and Motorola. The price of one nokia and one Motorola phone is Ksh 2000 and Ksh 16000 respectively. The dealers wishes to have al least fifty mobile phones. The number of Nokia phones should be atleast the same as those of Motorola phones. He has Ksh 120,000 to spend on phones. If he purchases x Nokia phones and y Motorola phones;

(a) Write down all the inequalities to represent the above information. (3 mks)

(b) Represent the inequalities in part (a) above on the grid pro\vided. (4 mks)

(c) The profit on a nokia phone is Ksh 200 and that on a Motorola phone is Ksh 300. Find the number of phones of each type he should stock so as to maximize profit. (3mks)

20. The vertices of parallelogram are O (0,0), A (5,0) B (8,3) and C (3,3). Plot on the same axes:

(i) Parallelogram O'A'B'C', the image of OABC under reflection in the line $x = 4$ (4 mks)

(ii) Parallelogram O''A''B''C'' the image of O'A'B'C' under a transformation described by the matix $\begin{bmatrix} 0 & -1 \\ 1 & 0 \end{bmatrix}$ Describe the transformation. (4 mks)

(iii) Parallelogram O'''A'''B'''C''' under the enlargement, centre (0,0) and scale factor ½ (2 mks)

21. A particle moving with acceleration $a = (10 - t)\ m/s^2$. When $t = 1$ velocity $V = 2$ m/s and when $t = 0$ displacement $S = OM$.

(a) Express displacement and velocity in terms of t.

(b) Calculate the velocity when $t = 35$

(c) What is the displacement when $t = 5$

(d) Calculate maximum velocity.

22.(a) Three quantities x, y and t were such that the square root of y varies directly as x and inversely as t. find the percentage change in t if x decreases in ratio 4 : 5 and y increases by 44%. (5 mks)

(b) If y varies as the square root of x and the sum of the vale of y when x = 4 and y = 100 is 2:

(i) Find y in terms of x (3 mks)

(ii) Find x correct to one d.p when y = 14 (2 mks)

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23. Use a ruler and pair of compasses only in this question. ABC is a fixed triangle in which AB = AC = 6 cm and angle BAC = 90^0. Show clearly on a two dimensional drawing the locus of Q in each case below.

(a) When Q is equidistant from both lines CA and CB. (5 mks)

(b) When the area of triangle ABC = areas of triangle QBC. (5 mks)

24. Two fair dice are tossed once. The event A and B are defined as follows:

A: the score on the two dices are the same

B: at least one die shows a 4.

(a) Draw a probability space representing the tossing. (2 mks)

(b) Calculate:

(i) The probability of even A (1 mk)

(ii) The probability of even B (2 mks)

(iii) The probability of even A and B (2 mks)

(c) If the two dice are tossed three time

(i) Draw a tree diagram showing the event A happening for the three tosses. (1 mk)

(ii) Calculate the probability that A occurs:

(a) Exactly once (1 mk)

(b) At least once (2 mk)

(c) At most once (2 mks)

KCSE PREMOCK EXAMS

SERIES 001

NAME…… **INDEX NO……**

SCHOOL…… **SIGN……**

501/1

FRENCH

Paper 1

2½ HRS

INSTRUCTIONS TO CANDIDATES

- *Answer section **1** (Dictation) **II**(Listening Comprehension) in the spaces provided on the question paper*
- *Answer section **III** in the booklet provided.*

SECTION 1
LISTENING COMPREHENSION

PASSAGE 1

1. On parle dans le texte d'un repas. Nommez deux ingredients qu'on va utiliser pour preparer ce repas.

(i)……(½ point)

(ii)…… (½ point)

2. A quel moment de la journée est qu'on va servir?

…… (½ point)

3. De quel nationalité est la personne qui propose le repas?

…… (½ point)

4. A quoi ressemble le foufou, selon le texte

……... (½ point)

5. Selon le texte pour être robuste, il faut manger

le……...(½ point)

PASSAGE II

6. Le programme "sveltesse" est destiné aux femmes qui veulent:

(i) …… (½ point)

(ii) ……... (½ point)

(iii) ……. (½ point)

7. A quel numéro faut-il téléphoner?..... et

quand?.....

…….. (1point)

PASSAGE III

8. Il s'agit dans ce texte d'une personne qui……..un emploi. (½ point)

9. Quelle activité cette personne a-t-elle menée

(a) en France? ……. (½ point)

(b) à Madagascar? ……. (½ point)

10. Quelle est la profession de la personne? …….. (½ point)

11. De quel pays vient-elle cette personne? ……. (½ point)

PASSAGE IV

12. Quel est le produit dans cette publicité? ……..... (½ point)

13. Où peut-on l'acheter?

……..(½ point)

FOR KCSE RESOURCES &MARKING SCHEMES CONTACT 0746 222 000

14. Combien de fruits tropicaux y'a-t-il dans ce produit? ……... (½ point)

15. Quel prix peut-on gagner? ……. (½ point)

PASSAGE V

16.(a) De quelle produit s'agit-il dans ce texte. …….. (½ point)

(b) Quel est le nom de ce produit? ……. (½ point)

(c) On présente ce produit comme un …… (½ point)

17. Donnez deux terrains mentionnés dans le texte:

……

……. (1 point)

PASSAGE IV

18. Le week-end du Noël il fera…….avec de temperatures de……degrés. Les…… seront humides et les soirs, il y aura des……. mais pendant la nuit il fera…….

(2½ points)

SECTION II

DICTATION

.....

.....

.....

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.....

.....

.....

SECTION III

COMPOSITION

Write your two compositions in the pages provided.

1. In 120-150 words, write in French on.

Either,

(a)

Compagnie NANTES cherche une secretaire tri-lingue pour leur nouvelle compagnie à Eldoret. Experience: 5 ans Connaissance d'informatique Obligatoire. Disponibilite: Immédiate.

Vous cherchez un emploi, écrivez votre Curriculum Vitae pour ce poste-là. (10 points)

Or

(b) Écrivez la recette de votre repas favori. (10 points)

2. Write a composition in French of between 150 and 180 words on:

(a)Begin as follows.

Ce soir-là, a ma grande surprise, quand je suis arrivé(e) chez-moi, la porte était fermée …… (15 points)

(b) Qu'est-ce que vous pensez du sport? Joue-t-il un rôle important dans la vie des kenyans? Discutez. (15 points)

FOR KCSE RESOURCES &MARKING SCHEMES CONTACT 0746 222 000

KCSE PREMOCK EXAMS

SERIES 001

NAME…… **INDEX NO……**

SCHOOL…… **SIGN……**

501/2

BUSINESS STUDIES

Paper 2

1 ½ HRS

Write your name and index number in the spaces provided above.

For Examiner's Use Only.

Section	Maximum Score	Candidate's Score
I	15	
II	15	
TOTAL SCORE		

SECTION I (15 Marks)

Read the following passages and answer the questions that follow after each passage

PASSAGE I

Evasion spectaculaire hier matin à la prison de Kamiti. Un prisonnier condamné à cinq ans de prison pour vol était depuis quelques mois à Kamiti. Travaillant à la cuisine, il remarquait souvent une voiture noire près des batiments. C'était celle du directeur de l'établissement.

Hier matin, le prisonnier a fait semblant d'aller vers la cuisine, mais il s'est caché derrière un mur, est allé vers la voiture et s'est installé au volant. Il est sorti de la prison sans la moindre difficulté. Les gardiens devant la porte ont salué avec respect le conducteur, pensant que c'était le directeur lui-même.

1. a) Quel était le crime du prisonnier?

   ……(½ pt)

   b) Pourquoi a-t-il pu échapper? (1 ½ pts)

   ……

   ……

   ……

PASSAGE II

Vous êtes stressé? Conseils de l'Institut mexicain de la sécurité sociale glanés dans 'El Universal": dormez tout votre soûl (de 6 à 10 heures par jour); prenez un petit déjeuner copieux et équilibré; mangez modérément le midi et léger le soir. Les spécialistes recommandent très souvent une reduction du sel, des aliments riches en graisse et, après 40 ans, du lait et du sucre. Enfin, réservez-vous du temps pour méditer sans oublier le contact avec la nature.

2. a) D'après texte, quel repas est le plus important?

   …….. (½ pt)

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b) A part l'alimentation, que faut-il faire pour enlever le stress?

(i) ……. (½ pt)

(ii) …… (½ pt)

(iii) …… (½ pt)

PASSAGE III

Il a commencé par être programmeur. Il est aujourd'hui manager dans l'une des plus grandes entreprises mondiales, Microsoft. Pour certains, c'est un modèle de réussite sociale. Mais cet homme brillant est resté simple. Bill Gates? Presque. Jacques Bonjawo, portrait d'un Camerounais qui n'a pas oublié ses origines. Jacques Bonjawo est né à Yaounde au Cameroun. I la 42 ans et il travaille actuellement aux Etats-Unis, chez Microsoft où il est le numéro 3. Il dirige la division Internet MSN.com et il a la confiance de Bill Gates pour tout ce qui concerne les nouvelles technologies de l'information, il est arrivé à cette place un peu par hasard et un jour, pendant un congrès, alors qu'il présentait un travail qu'il avait pour son ancien employeur, Microsoft l'a contacté.

Jacques vient d'écrire un livre qui a pour titre - Internet pour l'Afriquel. Il constate que plus de 300,000 africains ayant un doctorat n'y vivent pas. Pourtant, il ne les critique pas. Actuellement, il participe a un projet d'université virtuelle pour former des étudiants africans et il en est fier. Selon lui, avec les nouvelles technologies, l'important n'est pas l'endroit où l'on se trouve. Ce qui compte, c'est ce qu'on fait pour son pays et pour le continent.

3. a) Nom de la personne décrite: …….(½ pt)

b) Sa nationalité:……(½ pt)

c) Son premier métier: …….(½ pt)

d) (i) Son poste actuel: …….(½ pt)

(e) Titre de son Oeuvre publié: …….(½ pt)

(f) Que pense cette personne des africains à l'étranger?

……(1pt)

(g) Trouvez dans le texte, les mots qui ont les mêmes sens:

(i) remarquer - …….. (½ pt)

(ii) gérant - ……(½ pt)

(iii) société - …….(½ mk)

(iv) succès - …… (½ pt)

PASSAGE IV

La Francaise, Perrine Pelen a gagné pour la troisième fois de la saison un monde en réalisant le 28 février, à New Hampshire le meilleur temps total de deux manches de la course. Elle a dominé la double championne olympique Hanni Wenzel, de l'Allemagne. Pelen a ainsi conforté sa position en tête du classement général de cette spécialité en Coupe du Monde.

La surprise de la course était Nadia Patrakeva, une russe, qui a pris la séconde place devant Hanni Wenzel. Patrakeva, agée de vingt-deux ans s'était fait remarquer et a confirmé le progrès des skieuses venant de l'Europe de 'Est.

4. a) De quel sport parle-t-on? (1pt)

……

……

b) Qu'est-ce qui a été remarquable de ce championnat?

…… (1pt)

PASSAGE V

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5. a) Dans ce texte, il s'agit d' ……(1 pt)

b) Dans quelle domaine doit-on être formé?

……(½ pt)

c) Pour se porter candidat(e), il faut:

(i) ……(½ pt)

(ii) ……(½ pt)

SECTION 2 GRAMMAR (15 MARKS)

Beginning as indicated, complete the answers of the questions below making all appropriate changes. Unnecessary changes should be avoided.

Exemple - Est-ce que puirre a pres le ballon?

Oui, il ……

Oui, il l'a pris

6. a) Avez – vous déjà lu les journaux?

Non je …… (1pt)

b) Maman a pris quelque chose?

Non, elle …… (1pt)

c)Je né vais pas à Nairobi parce je nài pas d'argent

Mais si j'avais de l'argent ……. (1pt)

d) Qu'est-ce qu'il faut faire pour arriver à l'école à l'heure?

On …….. (1pt)

e)Je mets les livres sur la table

Hier soir …… (1pt)

f) Elle est sortie quand elle a vu Paul

Elle est sortie en ……(1pt)

g) Je prends cet outil lourd.

L'année prochaine ……. (1pt)

FILL IN THE BLANKS WITH ONE WORD ONLY.

Il a (1) ……. jusqu'à dix et j'ai écouté attentivement; (2) …….. il m'a demandé de compter tout seul et (3) …… ai obeï. Il m'a (4) ……..ensuite savoir (5) …….coeur les mots vingt, trente, etc Puis il m'a dit (6) ……...ajouter un, deux, trois et ainsi de (7) …….. (8) ……..….. moins d'une heure j'……(9)…… appris et j'étais au comble de (10) ……joie. (½ mark each)

For each of questions in column A, select ONE matching response from column B

a) Il y aura déjà beaucoup de monde au théâtre à quatre heures? b) Tu pars déjà par L'Europe? c) Vous avez déjà vu le film de James Bond? d) Tu es déjà à Nakuru? e) Vous avez déjà passé les examens? f) Tu connais le Président de la France?	1) Non, je ne le connais pas 2) Non, nous n' avons pas encore reçu l'emploi du temps 3) La salle ne sera pas encore ouverte à ce moment-là. 4) Je n' ai pas encore eu un passeport. 5) Non, il n'est pas encore sorti 6) Non, pas encore mais je serai là dans un quart d'heure.

a)

b)

c)

d)

e)

f)

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