EXTRA-COUNTY SCHOOL MOCKS 2026

ALL SUBJECTS TESTED

ANSWERS AVAILABLE

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ff

Name……... Adm No…… Class…….

Index No……..

School…….. Sign ……..

DATE ……..

565/2

TIME: 2 HOURS 30 MINS

BUSSINES PPAPER 2

2026 EXTRA-COUNTY MOCK

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

Instruction to candidates

a) Write your name, admission number and stream in the spaces provided above
*b) This paper consists of **SIX** questions.*
*c) Answer any **FIVE** questions.*
d) All answers should be written in the answer booklet provided.
e) This paper consists of 3 printed pages.
f) Candidates should check the question paper to ascertain that all pages are printed as indicated and that no questions are missing.
g) Candidates should answer the questions in English.

For examiners use only

Questions.	Candidate's score.	
1	a	
	b	
2	a	
	b	
3	a	
	b	
4	a	

ff

	b	
5	a	
	b	
6	a	
	b	
TOTAL		

ff

1. **(a).** Explain 5 characteristics of economic resources (10 marks)

   (b). High unemployment in Kenya is the main challenge the Kenya Kwanza government is faced with. Explain 5 possible solution to the unemployment problem in Kenya. (10marks)

2. **(a).** Explain 5 disadvantages of Newspapers as an advertising media. (10mrks)

   (b). Explain five ways in which international trade may contribute to the development of a country. (10marks)

3. **(a).** Explain 5 benefits of a business plan to the entrepreneur. (10marks)

   (b). The following trial balance was extracted from the books of Kamau Enterprise on 31st December 2020.

Kamau Enterprise
Trail Balance

As at 31st Dec 2020

Details	Dr (sh)	Cr (sh)
Capital		800,000
Opening stock	200,000	
Sales and purchases	680,000	1,200,000
Returns	50,000	80,000
Discounts	80,000	45,000
Carriage inwards	42,000	
Debtors and creditors	200,000	105,000
Motor vehicle	750,000	
Furniture	250,000	
Rent	50,000	60,000
Bank overdraft		42,000
Carriage outwards	30,000	
TOTAL	**2,332,000**	**2,332,000**

Additional information: closing stock 100,000.
Required: Prepare Kamau Enterprise Trading, profit and Loss account for the year ended 31st Dec 2020. (10marks)

4. **(a).** Highlight 5 differences between a private Limited company and a public Limited company. (10marks)

   (b). Explain 5 factors that may lead to an increase in demand for tea in Kenya. (10 marks)

5. **(a).** Explain 5 external business environment that may affect business operation. (10marks)

ff

(b). Principles of insurance are guidelines that govern the relationship between the insurance company and the insured. Explain 5 such principles. (10marks)

ff

6. (a). Explain 5 features that make Kenya shillings qualify as good money. (10marks)

(b). Record the following transactions in the respective ledger accounts (10marks)

2003: April 1. Kemunto started a business with sh. 80,000.

April 2. Bought stationary for sh. 40 and paid in cash.

April 3. Opened a bank account and deposited sh. 50,000 from the cash till.

April 4. Bought a motorcycle worth 250,000 and paid by cheque.

April 5. Bought postage stamp for sh.60 in cash.

ff

Name……... Adm No…… Class…….

Index No…….. School…….. Sign ……..

DATE ……..

565/1

BUSINESS STUDIES

Paper 1

Time 2 Hours

EXTRA-COUNTY MOCK 2026

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

Instructions

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

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

16	17	18	19	20	21	22	23	24	25

TOTAL

State the type of utility created by each of the following production activities: (4mks)

Activity	Type of Utility
i. Transferring goods to where they are required	
ii. Changing the position of commodity from the period of production to the consumption	
iii. Transferring ownership of goods from one person to another.	
iv. Changing a commodity from raw materials to finished goods.	

1. Outline FOUR factors that may limit the use of containers as a method of transporting goods in developing countries. (4mks)

i) ……
…

……

ii) ……

……

iii) ……

……

iv) ……

……

2. State FOUR effects of a shift in supply curve to the right while the demand curve is held constant. (3mks)

i) ……
…

……

ii) ……

……

iii) ……

……

iv) .....

3. The following balances were extracted from the books of Kodiaga Traders on 31st December, 2022.

Fixed Assets	3,000,000.00
Stock	520,000.00
Creditors	610,000.00
Debtors	450,000.00
Bank Overdraft	310,000.00
Cash in hand	45,000.00

During the month of January, 2023, the following transactions took place:
Jan 01: Bought stock on credit worth Sh. 55,000.00

Jan 15: Sold goods worth Sh. 75,000.00 for Sh. 90,000.00 cash

Prepare a balance sheet as at 31st January, 2023. (4mks)

4. Highlight FOUR situations that indicate existence of a business opportunity. (4mks)

i) ……
…

……..……..

ii) ……

……..……..

iii) ……

……..……..

iv) ……

5. Given below are books of original entry, state the source documents used to prepare each of the books. (4mks)

BOOK OF ORIGINAL ENTRY	SOURCE DOCUMENT
i) Sales return journal	
ii) Cash book	
iii) Purchase journal	
iv) Sale journal	

6. State FOUR benefits that may be realized by a country as a result of government policy to relocate firms to rural areas. (4mks)

i) ……
…

……..……..

ii) ……

……..……..

iii) ……

……..……..

iv) ……

……..

7. Name FOUR accounting documents that are used in home trade. (4mks)

i) ……

……..……..

ii) ……

……..……..

iii) ……

……..……..

iv) ……

……..

8. Outline FOUR ways in which warehousing facilitates trade. (4mks)

i) ……
……

……

ii) ……

……

iii) ……

……

iv) ……

……

9. In the table below, name the type of error made in each of the following transactions.(4mks)

TRANSACTION	TYPE OF ERROR
i) A debtor for Sh. 250,000.00 settled her account by cheque and was never recorded	_____
ii) An invoice of Sh. 750,000.00 received from Yala traders was recorded in the effected account as Sh. 570,000.00	
iii) Sale of old furniture was recorded in sales account	
iv) Payment of Sh. 4,000 to Mumias was recorded in Mumia's Account	

10. Outline FOUR reasons why an increase in per capita income may not necessarily lead to a rise in the standard of living of the citizen. (4mks)

i) .....
...

……..

ii) .....

……..……..

iii) .....

……..……..

iv) .....

……..……..

11. Highlight FOUR ways in which the government may increase the amount of money in circulation.

(4mks)

i) ……

……

ii) ……

……

iii) ……

……

iv) ……

……

12. Machuki is a renowned coffee farmer. Give him FOUR reasons why he should join a producer cooperative society. (4mks)

i) ……

……

ii) ……

iii) ……

……

iv) ……

……

13. State FOUR internal environments that may contribute to the success of a business enterprise.

(4mks)

i) ……

……

ii) ……

……

iii) ……

……

iv) ……

……

14. Outline FOUR circumstances under which a country may decide to conduct her trade with other countries. (4mks)

i) ……
…

……

ii) ……

……

iii) ……

……

iv) ……

……

15. State FOUR factors that are likely to contribute to unemployment in Kenya. (4mks)

i) ……

……

ii) ……

……

iii) ……

……

iv) ……

……

16. Name the type of direct tax described in the statement given below:

STATEMENT	TYPE OF TAX
i) A tax levied on savings like dividend held by individuals	_____
ii) A tax charged when an asset is sold at a price higher than the book value	_____
iii) A tax charged on transfer or land from one person to another	_____
iv) A tax charged on an individual's income which may be from salary	_____

17. State the use of each of the following office equipment (4mks)

i) Guillotine……

ii) Franking machine ……..

iii) Stapler ……

iv) Cash register……

18. Outline FOUR reasons that may influence an individual to sell her imported produce directly to consumers. (4mks)

i) ……

……

ii) ……

……

iii) ……

……

iv) ……

……

19. The following is a format of the credit side of a three-column cash-book.

CR

Date		A	B	C	D

Name the columns marked A, B, C and D

i) A ……

ii) B ……

iii) C ……

iv) D ……

20. State FOUR ways in which the government may involve itself in commercial activities. (4mks)

i) ……
…

……..

ii) ……

……

iii) ……

……

iv) ……

……

21. Highlight FOUR ethical issues in product promotion. (4mks)

i) ……

……..

ii) ……

……

iii) ……

……

iv) ……

……

22. Outline FOUR factors that may limit exploitation of natural economic resources in a country.(4mks)

i) ……

……..

ii) ……

……

iii) ……

……

iv) ……

23. State FOUR procedures of making an insurance claim. (4mks)

i) ……
…

……

ii) ……

……

iii) ……

……

iv) ……

……

24. Outline FOUR Circumstances under which a monopolist would survive (4mks)

i) ……

……

ii) ……

……

iii) ……

……

iv) ……

……

THE KENYA NATIONAL EXAMINATIONS COUNCIL

Kenya Certificate Of Secondary Education

231/3 INSTRUCTIONS

BIOLOGY PRACTICAL

INSTRUCTIONS TO SCHOOLS

The information contained in this paper is to enable the head of the school and the teacher in charge of biology to make adequate preparations for this term's Biology Practical examination.

Besides other laboratory apparatus and fittings, each candidate will require the following:

- Glucose solution labeled **solution S1**
- Distilled water labeled **Solution S2**
- Starch solution labeled **Solution S3**
- Benedict's solution in a beaker
- Iodine solution in a beaker
- A test tube rack
- 6 clean test tubes
- 10ml measuring cylinder
- Bunsen burner
- A dropper
- *Tradescantia spp* with at least a flower labeled **specimen T**
- *A* scalpel
- A handlens

Name……... **Adm No**…… **Class**…….

Index No…….. **School**…….. **Sign** ……..

DATE ……..

231/2

BIOLOGY
PAPER 2

TIME: 2 HOURS

EXTRA-COUNTY MOCK 2026

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

Instructions to the candidates

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

SECTION	QUESTION	MAX SCORE	CANDIDATES SCORE
A	1 2 3 4 5	8 8 8 8 8	
B	6 7 8	20 20 20	
	TOTAL	**100**	

SECTION A: 40MKS

ANSWER ALL QUESTION IN THE PROVIDED SPACES

1. State the functions of the following parts of the light microscope.
   a) i) Condenser (1 mk)

   ii) Eye piece lens. (1 mk)

   b) Give three advantages of using a cover lip when preparing a specimen for observation under a light microscope. (3mks)

   ……

   ……

   ……

c) Explain how you would manipulate the low power objective lens to focus a specimen for observation under a light microscope. (3mks)

……
……
……
……
……

2. In certain breeding experiments black rabbits were cross with pure breeding white rabbits and all the offspring had a coat with black and white patches.

a) Using letter B to represent the gene for black coat and letter H for white coat colour, work out the F2 genotypic ratio. (5mks)

b) State the phenotypic ratio of F2. (1mk)

c) i) Name the term used when two alleles in a heterozygous state are fully expressed phenotypically in an organism. (1mk)

……

ii) Give an example of a trait in human beings where the condition whose term is named in (c) (i) above expresses itself. (1mks)

……

3. a) State four characteristics of fruits dispersed by animals. (4mks)

……

……

……

……

……

b) State two roles of each of the following hormones in menstruation.

i) Luteinising hormone. (2mks)

……

……

ii) Oxytocin (2mks)

……

……

4. a) Explain what happens when a wilting young plant is well watered. (3mks).

……

……

……

……

b) Name a support tissue in plants thickened with:

i) Cellulose (1mk)

……

ii) Lignin (1mk)

……

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c) Give three functions of pectoral and pelvic fins in a tilapia fish in Lake Victoria. (3mks)

5.

a) i) Explain the changes that take place in the pupil and lens of a human eye when a person moves from a brightly lit room to a dark room. (3mks)

……

……

……

……

……

ii) What is the significance of the changes explained in (a)(i) above? (1mk)

……

b) How is the human eye nourished? (2mks)

……

……

……

c) Explain why images that form on the blind spot are not perceived. (2mks)

……

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……

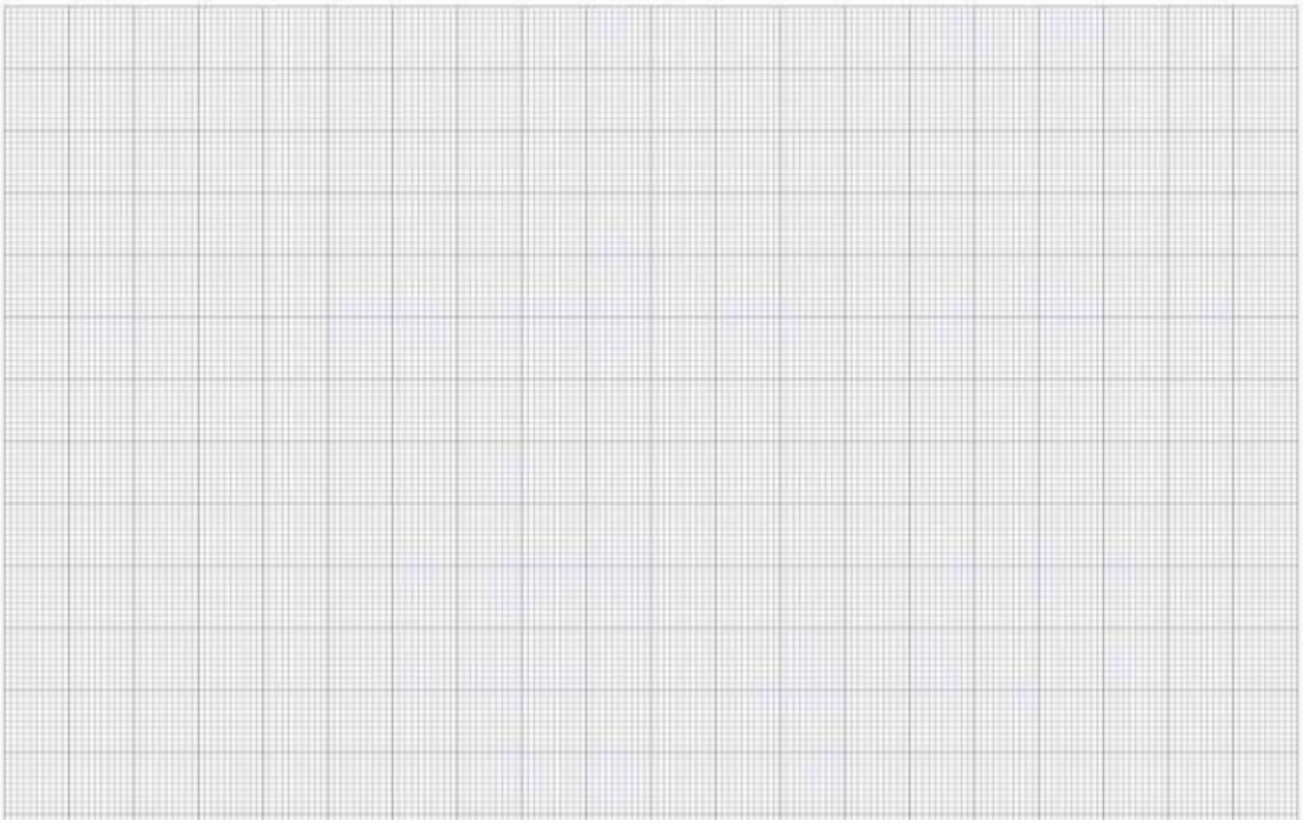
SECTION B (40mks)

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

6. A hungry person had after which the cultivation of glucose in the blood was determined. This was measured hourly as blood passed through the hepatic portal vein and the iliac vein in the leg. The results are shown in the table below.

Time (hrs)	**Concentration of glucose (mg/100ml) in**	
	Hepatic portal vein	**Iliac vein**
0	85	85
1	85	85
2	140	125
3	130	110
4	110	90
5	90	90
6	90	90
7	90	90

a) Using same axes, draw graphs of concentration of glucose in hepatic portal vein and the iliac vein against time. (7mks).



b) From your graph, determine the glucose level in the two blood vessels at 31/2hrs during the experiment. (2mks)

c) Account for the concentration of glucose in the hepatic portal vein from;

i. 0 – 1 hour (2mks)

……

……

……

ii. 1 – 2 hours (3mk)

……

……

……

iii. 2 – 4 hours (3mks)

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……

……

iv. 5 – 7 hours (2mks)

……

……

……

d) Account for the difference in the concentration of glucose in hepatic portal vein and the iliac vein between 2 and 4 hours. (1mk)

……

……

……

7. Describe the process by which free nitrogen in the air is made available to carnivores in the ecosystem. (20mks)

8. Explain how environmental factors affect the rate of transpiration in flowering plants. (20mks)

Name……... Adm No…… Class…….

Index No…….. School…….. Sign ……..

DATE ……..

231/1

BIOLOGY
PAPER 1

TIME: 2 HOURS

EXTRA-CUONTY MOCK 2026

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

INSTRUCTIONS TO CANDIDATES:

- *Write your **name** and **index number** in the spaces provided above*
- ***Sign** and **write** the date of examination in the spaces provided above.*
- *Answer **all** questions in the spaces provided on the question paper.*

FOR EXAMINER'S USE ONLY:

QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
1- 25	80	

1. Give two reasons why the pressure of blood is greater in the arteries than in the veins of mammals. (2mks)

   .....

   .....

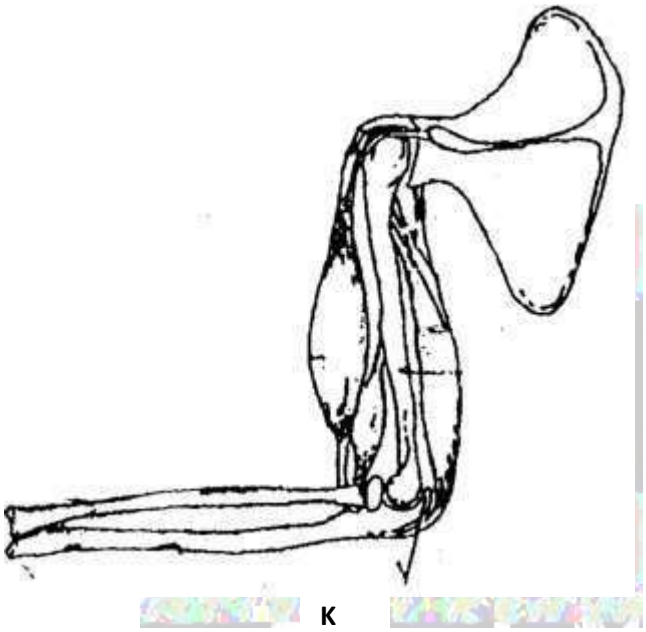
2. After four months of pregnancy, the ovaries of a woman can be removed without terminating pregnancy. However, during the first four months of pregnancy, the ovaries must remain intact if pregnancy is to be maintained. Explain these observations.

   (2mks)

   .....

   .....

3. The diagram below shows the arrangement of bones and muscles in a human arm



(a) Name the part of the bone labeled **K**. (1mk)

.....

(b) How do the muscles work to extend the arm. (1mk)

.....

4. Industrial wastes may contain metallic pollutants. State how such pollutants may indirectly reach and accumulate in the human body if the wastes were dumped into rivers. (3mks)

.....

.....

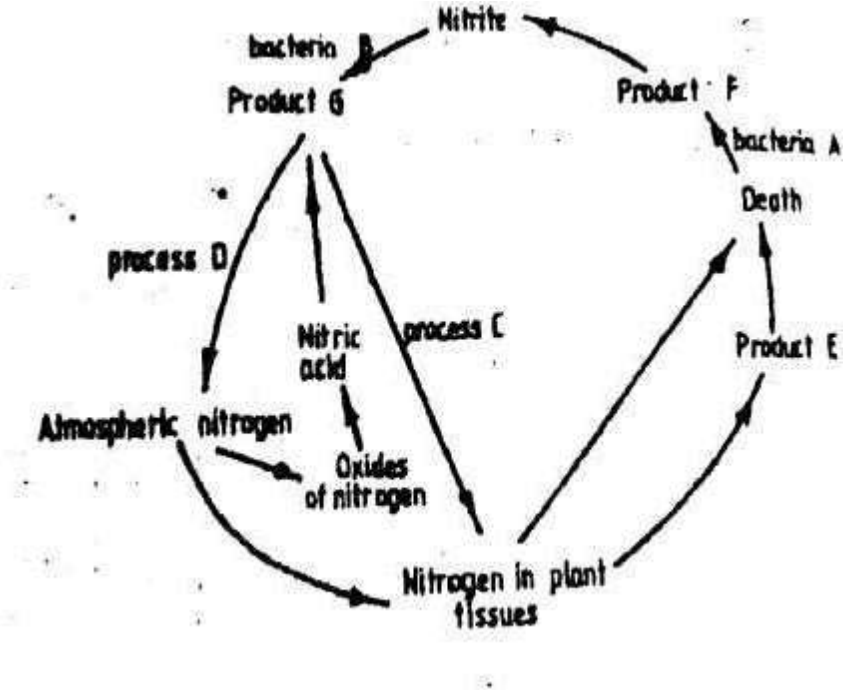
.....

5. Explain how drooping of leaves on a hot sunny day is advantageous to a plant. (2mks)

.....

.....

6. The figure below is diagram of the nitrogen cycle



(a) Identify the bacteria A (1mk)

.....

(b) Nitrogen in the atmosphere cannot be directly utilized by plants. State two ways by which this nitrogen is made available for plant use. (2mks)

.....

.....

7. Explain why several axillary buds sprout when a terminal bud in a young tree is removed. (2mks)

.....

.....

8. A rhinoceros in a national park was found to be infected with ticks. State the trophic level occupied by the,

(a) Rhinoceros (1mk)

.....

(b) Ticks (1mk)

.....

9. Some millet seeds were soaked in water for two days. They were then broken into small pieces and placed on the surface of agar.
The petri-dish was covered and kept in a warm place. After two days, it was discovered that starch was absent in the agar.

(a) Suggest how the test for starch in the agar block was conducted. (2mks)

.....

.....

(b) Why was it necessary to soak the seeds first. (2mks)

.....

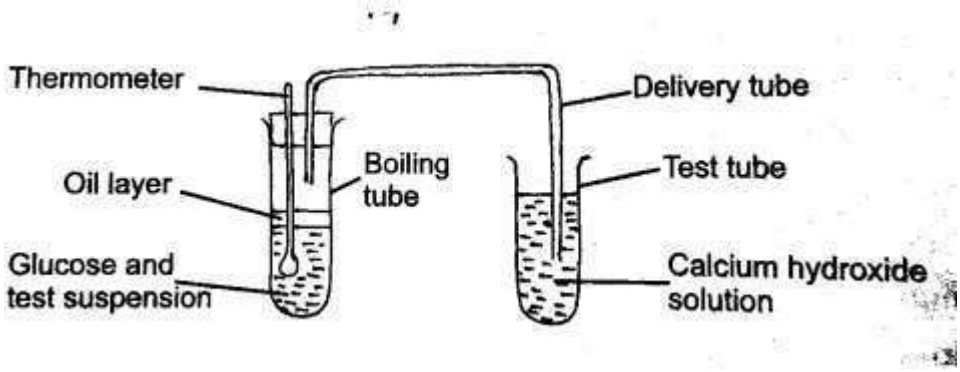
.....

(c) What was the importance of covering the petri-dish? (1mk)

.....

.....

10. Fig. 8.3 below was used by a group of form 2 students to investigate a certain physiological process.



(a) What was the purpose of the following in the set up:

(i) Oil layer? (1mk)

.....

. (ii) Calcium hydroxide solution? (1mk)

.....

.....

(b) What effect would each of the following treatments have on the rate of reaction taking place in the boiling tube?

(i) Adding metabolic poison such as sodium cyanide to the suspension. (1mk)

.....

(ii) Adding more yeast? (1mk)

.....

11. A piece of fresh liver was added to some small amount of hydrogen peroxide in attest tube. Effervescence occurred in the tests tube and froth formed.

(a) What would be observed in the test tube if boiled piece of liver is used instead? Give a reason for your answer. (1mk)

Obsevatition.....

Reason.....

(b) What is the active ingredient of liver which brings about the reaction above? (1mk)

.....

12. A flower was found to have inconspicuous petals, long feathery stigma and small light pollen grains.

(a) What is the likely agent of pollination of the flower?

(1mKS.....

.....

(b) What is the significance of small light pollen grains? (1mk)

.....

13. (a) What is apical dominance? (2mks)

.....

(b) State the significance of pruning tea plants. (1mk)

.....

(c) Identify two factors that determine viability of a seed. (2mks)

.....

.....

14. Give two morphological features that can be used to separate a housefly, a millipede and a tick into their respective classes. (2mks)

.....

.....

15 (a) State two causes of mutation (2mks)

.....

....

(b) Define the following terms.

(i) Hybrid Vigour (2mks)

.....

(ii) Polypoloidy (1mk)

.....

16. All insects are believed to have arisen from a common ancestor. However, modern insects differ widely in a variety of ways. For example, their mouthparts are adapted for different modes of feeding, e.g. biting, piercing, and sucking.

(a) What kind of evolution is this? (1mk)

....

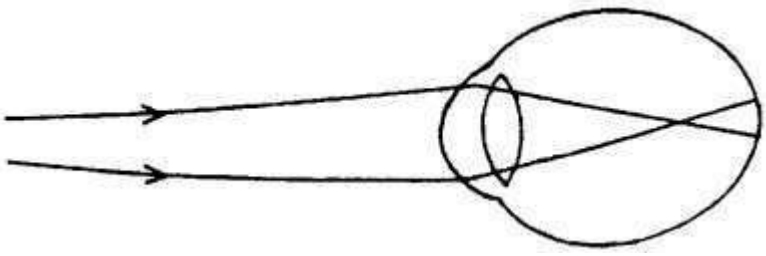
(b) Explain how the differences in the mouthparts came about. (3mks)

.....

. .....

.....

17. The diagram below illustrates a certain eye defect



(a) Name the defect (1mk)

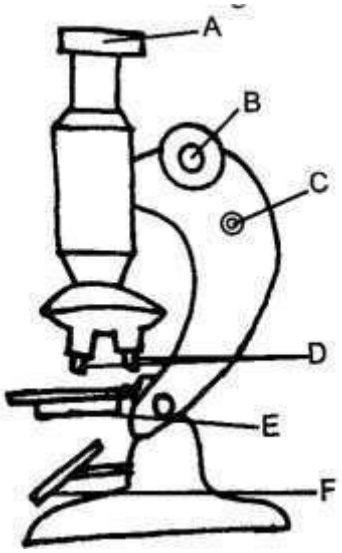
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(b) Explain how the defect named in (a) above can be corrected. (3mks)

.....

.....

18. The diagram below shows some components of a light microscope.



(a) Name the parts labeled A and B (1mk)

.....

(b) (i) A student was viewing a slide preparation of a cheek cell under high power of a microscope. The features of the cell were blurred. Which one of the labelled parts of the microscope would the student use to obtain a sharper outline of the features?

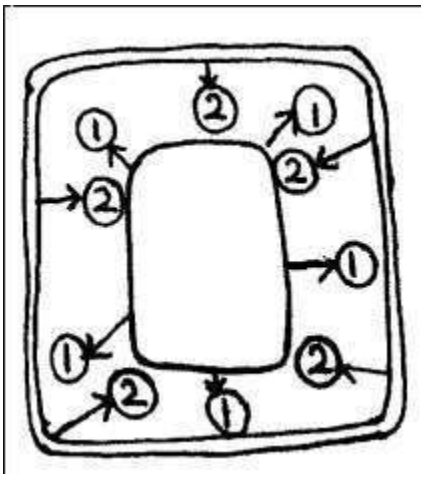
(1mk)

.....

Give the formula used to calculate magnification in a light microscope. (1mk)

.....

19. The diagram below resents a fully turgid plant cell.



(a) Which arrows represent:

(i) Turgor Pressure (1mk)

.....

(ii) Wall pressure. (1mk)

.....

(b) State the roles placed by osmosis in plant (2mks)

.....

.....

20. (a) Treating a cell undergoing interphase stage of cell division with a metabolic poison stops cell division. Explain. (2mks)

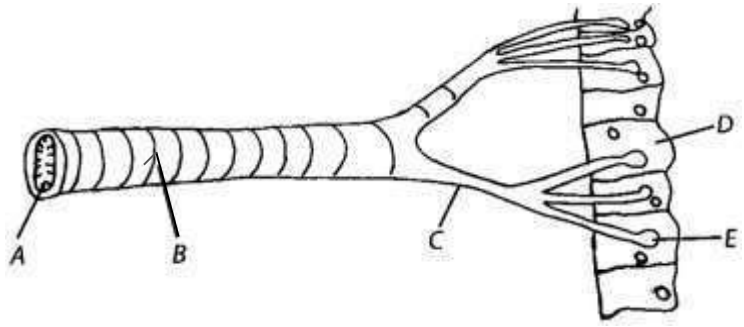
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.....

(b).What is the significance of meiosis to living organisms? (1mk)

.....

21. The diagram below represents part of the gaseous exchange site of a terrestrial insect. Use it to answer the question that follow:



(a) Name the parts labeled

A .....

B.....

(b) State the significance of part labeled B. (1mk)

.....

(c) Name the fluid which fills the cavity of structure labeled E and state its significance. (1mk)

.....

22. The equation below summarizes a certain chemical process which takes place in a certain region of the alimentary canal.

Sucrose + Enzyme A ⟶ Glucose + Product B

(a) Name the process summarized by the above equation. (1mk)

.....

(b) Name the;

(i) Enzyme A (1mk)

.....

(ii) Product B (1mk)

.....

(c) What is the name of the juice which contains enzyme A in human beings (1mk)

.....

d]Name the region of the alimentary canal of man where the above process occurs (1mk)

23. State the function of each of the following structure in a female mammal.

(i) Placenta (1mk)

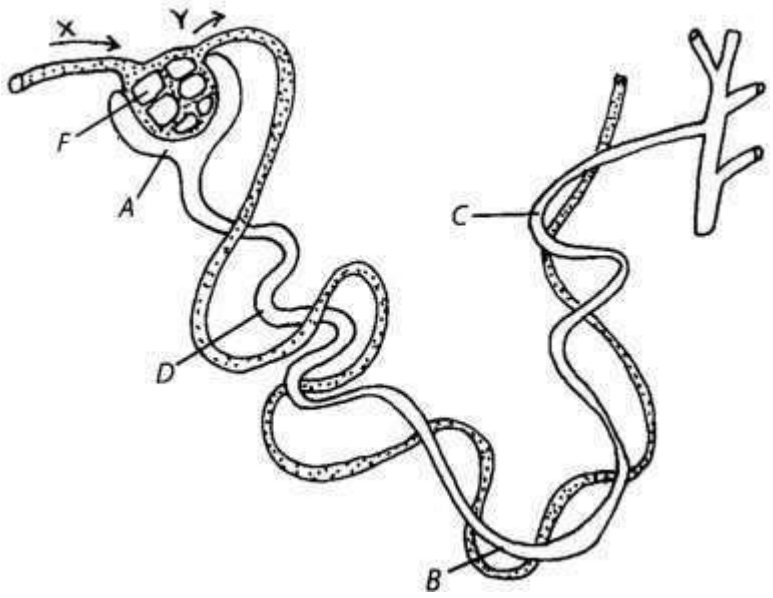
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.....

(ii) Amniotic fluid (1mk)

.....

24. The figure below represents the mammalian nephron.



(a) Name the parts labeled A and B (1mk)

.....

(b) State the differences between the following:

(i) Blood in X and Y (1mk)

.....

(ii) Composition of the content of F and D (1mk)

.....

(iii) What would be the effect of shortening the part marked B? (1mk)

.....

25. In an experiment, Drosophila melanogaster (fruit fly) with broad abdomen were crossed with those with narrow abdomen. All the offspring's (F1 generation) from the crosses had broad abdomens. Using letter, A to denote the gene for broad abdomen.

(a) (i) Give the genotypes of the parent. (2mks)

.....

.....

(iii) If 150 fruit flies with broad abdomen in the second filia generation (F2), how many flies had broad abdomen in the same generation? Show your working.
(2mks)

.....

.....

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.....

(c) In a related experiment, fruit flies with broad abdomen were crossed with fruit flies with narrow abdomen. The offspring with broad abdomen and the ones with narrow abdomen were in the ratio of 1:1.

(i) What is the genotype of the parent with broad abdomen? (1mk)

.....

(ii) What is biological significance of the experiment? (1mk)

.....

Name..... **Adm No**..... **Class**.....

Index No..... **School**..... **Sign** .....

DATE .....

SECTION A (3OMarks)

(Answer all questions from this section)

1. State two functions of a dip tank shelter in a plunge dip (1mk)

.....

.....

.....

2. . Give four factors that influence amount of water taken by an animal (2mks)

.....

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3. . State four examples of diseases caused by bacteria in livestock (2mks)

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4. . State four factors considered when selecting eggs for marketing (2mks)

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5. . Name four beef cattle breeds (2mks)

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6. .State the colour of each of the following dairy cattle breeds (2mks)

Fresian.....

Ayrshire.....

7. .State four advantages of inbreeding system (2mks)

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8.State four reasons for castration in livestock production (2mks)

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9..List down four harmful effects of ticks in livestock (2mks)

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10.Give four signs of heat in cattle (2mks)

.....

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11. Name two types of roughages (1mk)

.....

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.....

12 State four reasons for maintaining farm tools and equipments (2mks)

.....

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13 .State four reasons why a calf should be fed on colostrum (2mks)

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14 .State four functions of vitamins in livestock (2mks)

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15 .Name four systems of a tractor engine (2mks)

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16 .List four methods used in preserving fish (2mks)

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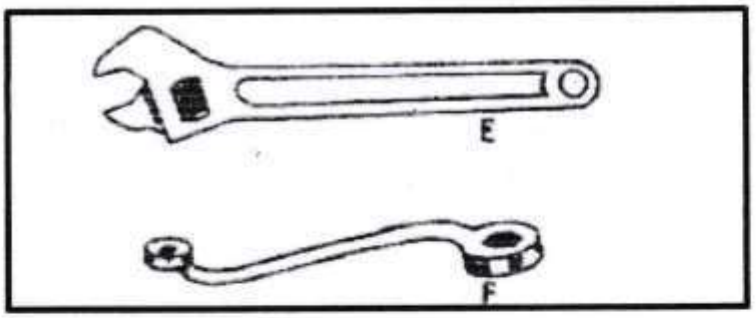
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SECTION B (20Marks)

(Answer all the questions from this section)

17.A dairy farmer is required to prepare 100kgs of dairy meal containing 20%DCP(Digestible crude protein).using the Pearson's square method ,calculate the quantity of soya beans 40% DCP and rice 16% DCP the farmer requires for the dairy meal.

18. The following diagrams illustrate some workshop tools. Study them carefully and answer the question that follows.



a) Identify the tools labeled E and F (2mks)

E .....

F .....

b)List any **Two** structural qualities of an egg to be incubated (2mks)

.....

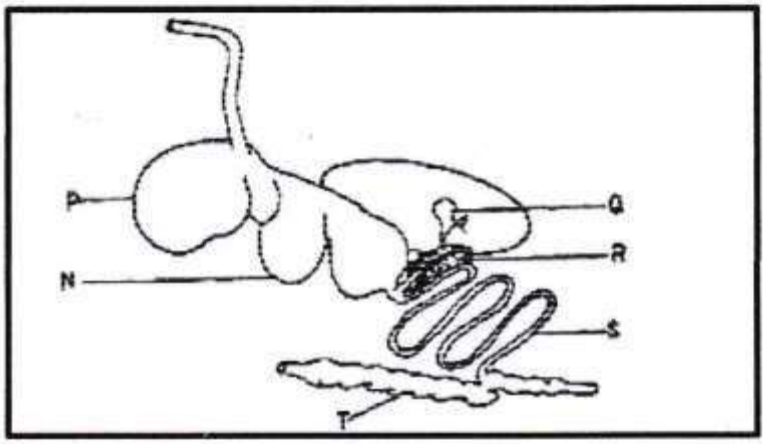
.....

.....

c)Give functions of part labeled E in a fertilized egg (1mk)

.....

20) a)The diagram below shows the parts of the digestive system of a cattle. Study it and answer the questions that follow.



a)Name the parts labeled N,P,R and Q (2mks)

N.....

P.....

R.....

Q

b) List **three** microbial activities that take place in part labeled P. (3mks)

.....

.....

.....

SECTION C (40MARKS)

(Answer any two questions from this section.)

21.(a)Describe new cattle diseases under the following sub-headings

i. Causal organism (1mk)

ii. Symptoms of attack (6mks)

iii. Control measures (3mks)

b)state five signs of parturition in a cow (5mks)

c) Describe the uses of five equipment required for hand milking (5mks)

.22(a)Outline any **eight** control measure of ticks (8mks)

(b) Outline the daily maintenance practices that should be carried out on a farm tractor. (12mks)

23.(a)Describe the management practices carried out in rearing of day old chicks to eight weeks using a brooder.(10mks).

b)Describe five factors to considered when siting the fish pond in the farm (5mks)

c)State the functions of any parts of zero grazing unit in dairy farming (5mks)

Name…….. **Adm No……**

Class ..... **Index**

No…….. School…….. **Sign ……..**

DATE ……..

311/2

HISTORY AND GOVERNMENT

PAPER 2

TIME: 2 HOURS 30 MINS

EXTRA-COUNTY MOCK 2026

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

Instructions

- This paper has three section A, B and C
- Answer three questions in section B and only two in section C.

SECTION	QUESTION	CANDIDATE`S SCORE
A	**1-17**	
B	**18.**	
	19.	
	20.	
	21.	
C	**22.**	
	23.	
	24	
	TOTAL OUT OF 100%	

SECTION A (25 mks)

1. **Give two limitations of using anthropology as a source of information of history and government. (2mks)**

2. **Identify one type of artefact that is likely to be found in an archeological site** (1 mk)

3. **State one negative effect of land enclosure system in Britain during 18th Centuary (1 mk)**

4. **State one adavantage of horn blowing as a means of communication during the Pre-colonial period. (1 mk)**

5. **Give one reason that led to the decline of Meroe as an early urban center** (1mk)

6. **Give one reason why the golden stool was important in Asante empire** (1mk)

7. **State two uses of coal during the industrial revolution in Europe** (2mks)

8. **State one similar method used to recruit African labour in Britain and French** (2mks)

9. **Name the European power that colonized Uganda** (1mk)

10. **State two duties of Bataka Chiefs in Pre-Colonial Buganda kingdom** (2mks)

11. **Give two economic benefits enjoyed by the members in the common wealth** (2mks)

12. **Identify two factors which have undermined economic development in democratic republic of Congo since independence** (2mks)

13. **Give the main reason why Pan- African movement was formed at the beginning of the century**(1mk)

14. **Name two Principle organs of the United Nations** (2mks)

15. **Identify one type weapon used during the cold war** (1 mk)

16. **Give two responsibilities of state government in the United States of America** (2mks)

17. **State two types of elections in India** (2mks).

SECTION B (45 mks)

18. (a) **state five reasons why it`s important to study history** (5mks)

(b) Explain five ways in which Homo Erectus attempted to improve his way of life (10 mks)

19. (a) **State three effects of scientific invention on Industry** (3mks)

(b) **Describe six factors that have encouraged industrialization in South Africa** (12 mks)

20. (a)**State three factors that influenced the British to the use of direct rule in Zimbabwe**(3mks)

(b**) Explain six results of the collaboration between Buganda and the British** (12 mks)

21. (a) **state three factors that have enabled Tanzania to maintain National unity since independence (3mks)**

(b) **Explain six Political challenges which Democratic Republic of Congo has Faced since independence** (12 mks)

SECTION C: (30 mks)

22.(a) **state five factors that led to the growth of the Asante Empire by the 19THCentuary**(5mks)

(b) **Describe five political of the Shona during the Pre-colonial period** (10 mks)

23. (a**) State three roles played united States of America in ending the First World** (3mks)

(b**) Discuss six causes of the cold war.**(12mks)

24. (a) **State three ways in which one can become a member in the house of lords in Britain**(3mks)

(b**) Discuss six functions of the President of the United States of America** (12mks)

Name…….. **Adm No**…… **Class**…….

Index No…….. **School**…….. **Sign** ……..

DATE ……..

311/2

HISTORY AND GOVERNMENT PAPER 2

TIME: 2 HOURS 30 MINS

EXTRA-COUNTY MOCKS 2026

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

Instructions

- This paper has three section A, B and C
- Answer three questions in section B and only two in section C.

SECTION	QUESTION	CANDIDATE`S SCORE
A	1-17	
B	18.	
	19.	
	20.	
	21.	
C	22.	
	23.	
	24	
	TOTAL OUT OF 100%	

SECTION A (25 mks)

1. **Give two limitations of using anthropology as a source of information of history and government. (2mks)**

2. **Identify one type of artefact that is likely to be found in an archeological site** (1 mk)

3. **State one negative effect of land enclosure system in Britain during 18th Centuary (1 mk)**

4. **State one adavantage of horn blowing as a means of communication during the Pre-colonial period. (1 mk)**

5. **Give one reason that led to the decline of Meroe as an early urban center** (1mk)

6. **Give one reason why the golden stool was important in Asante empire** (1mk)

7. **State two uses of coal during the industrial revolution in Europe** (2mks)

8. **State one similar method used to recruit African labour in Britain and French** (2mks)

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12. **Identify two factors which have undermined economic development in democratic republic of Congo since independence** (2mks)

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SECTION B (45 mks)

18. (a) **state five reasons why it`s important to study history** (5mks)

(b) Explain five ways in which Homo Erectus attempted to improve his way of life (10 mks)

19. (a) **State three effects of scientific invention on Industry** (3mks)

(b) **Describe six factors that have encouraged industrialization in South Africa** (12 mks)

20. (a)**State three factors that influenced the British to the use of direct rule in Zimbabwe**(3mks)

(b**) Explain six results of the collaboration between Buganda and the British** (12 mks)

21. (a) **state three factors that have enabled Tanzania to maintain National unity since independence (3mks)**

(b) **Explain six Political challenges which Democratic Republic of Congo has Faced since independence** (12 mks)

SECTION C: (30 mks)

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(b) **Describe five political of the Shona during the Pre-colonial period** (10 mks)

23. (a**) State three roles played united States of America in ending the First World** (3mks)

(b**) Discuss six causes of the cold war.**(12mks)

24. (a) **State three ways in which one can become a member in the house of lords in Britain**(3mks)

(b**) Discuss six functions of the President of the United States of America** (12mks)

Name…….. **Adm No……** **Class…….**

Index No…….. School…….. Sign ……..

DATE ……..

311/1

HISTORY AND GOVERNMENT PAPER 1

TIME: 2½ hours

EXTRA-CUONTY MOCK 2026

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

Instructions to candidates:

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

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

c) Answer to all questions ***must*** be answered in the booklet provided.

d) This paper consists of ***two*** printed pages.

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

f) Candidates should answer the questions in English.

For Examiner's Use only

SECTION A (25MKS)	**SECTION B (45MKS)**				**SECTION C (30MKS)**			**TOTAL Marks %**
QUESTIONS 1-17	**18**	**19**	**20**	**21**	**22**	**23**	**24**	

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1. Define the term social history (1mk)

……

2. Name two sub – group of the Luo (2mks)

……

……

3. Identify one age grade of elders among the Akamba (1mk)

……

4. Give the main reason why the rulers of Malindi welcome the Portuguese in the 16th century (1mk)

……

5. Name one type of citizenship in Kenya (1mk)

……

6. Give two ways in which urbanization promoted national unity in Kenya (2mks)

……

……

7. State the main results of the Lyttleton constitutional amendments of 1954 (1mk)

……

8. Give two aspects of democracy (2mks)

……

……

9. Name the leader of Wanga who collaborated with the British (1mk)

……

10. Identify the main reason for the drafting of the Devonshire white paper in 1923 (1mk)

……

11. Give two roles of welfare organization in Kenya during the colonial period (2mks)

……

……

12. State two economic challenges that faced Daniel Moi during his reign in Kenya (2mks)

……

……

13. Identify two types of parliamentary elections in Kenya (2mks)

……

……

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14. Give two national philosophies in Kenya (2mks)

……

……

15. State one way through which the opposition political parties in Kenya check on the government excess (1mk)

……

16. Highlight two circumstances under which the deputy governor may assume the office of the governor (2mks)

……

17. Identify one form of direct taxes charged on Kenyan citizens (1mk)

……

SECTION B (45MARKS)

Answer any three questions

18. a. State five function of the council of the elders of the Ameru during the pre – colonial period (5mks)
    b. Explain five social effects of Luo migration into western Kenya (10mks)
19. a. State five factors that led to the growth of towns along the Kenyan Coast by 1700AD (5mks)
    b. Explain five results of the interaction between the people of the Kenyan Coast and the Arabs (10mks)
20. a. State five ways in which European settlers in Kenya were able to get labour force during the colonial period (5mks)
    b. Explain five problems encountered during the construction of the Kenya Uganda Railway (10mks)
21. a. Give five importance of promoting cultural activities in Kenya (5mks)
    b. Explain five factors which have undermined the provision of basic education in Kenya (10mks)

SECTION C (30MARKS)

Answer any two questions

22. a. Give three circumstances in which ones right to life may be taken away (3mks)
    b. Explain six reasons why it is important to respect human rights (12mks)
23. a. State three challenges facing judiciary in Kenya (3mks)
    b. Explain six functions of the speaker of the national assembly in Kenya (12mks)
24. a. Identify five internal sources of revenue for national government in Kenya (5mks)

b. Explain five ways in which county government ensures effective utilization of public finances (10mks)

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Name…….. Adm No…… Class……

Index No…….. School…….. Sign ……..

DATE ……..

312/2

GEOGRAPHY PAPER 2

TIME: 2 HOURS 45 MINS

EXTRA-COUNTY MOCK 2026

SECTION A

*Answer **all** the questions in this section.*

1 (a) What is Practical Geography? (2 marks)

(b) State ***three*** skills learned in Practical Geography. (3 marks)

2. (a) Name ***two*** underground methods of mining. (2 marks)

(b) Give ***three*** ways in which derelict land can be rehabilitated. (3 marks)

3. (a) Name ***two*** cereal crops grown in Mwea Tebere. (2 marks)

(b) State ***three*** ways in which salinity of the polders is reduced in the Netherlands. (3 marks)

4. (a) Give ***two*** deep sea methods of fishing. (2 marks)

(b) State ***three*** problems experienced in the marketing of fish in Kenya. (3 marks)

5. (a) Name ***two*** towns in Kenya where motor vehicle assembling plants are located. (2 marks)

(b) Give ***three*** characteristics of the cottage industry in India. (3 marks)

SECTION B

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

6. The table below shows the value of some Kenya's mineral exports from 2000 to 2003. Use it to answer questions (a).

Value of Kenya's mineral exports (million Ksh.)

MINERAL	YEAR			
	2000	2001	2002	2003
Soda Ash	13,200	8,300	7,300	12,400
Petroleum products	4,200	4,500	4,700	6,100
Cement	7,300	7,800	7,400	8,900

(a) (i) Using a scale of 1cm represent 1000 million Kenya shillings, draw a comparative bar graph to represent the data shown. (8 marks)

(ii) State ***three*** advantages of using comparative bar graphs to represent statistical data. (3 marks)

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(b) Describe how deep shaft mining method is used in exploitation of minerals. (6 marks)

(c) (i) Name ***two*** leading gold mining areas in South Africa. (2 marks)

(ii) Explain ***three*** ways in which gold mining has contributed to the economy of South Africa. (6 marks)

7. (a) (i) What is forestry? (2 marks)

(ii) State ***three*** significance of agro-forestry. (3 marks)]

(b) (i) Name ***three*** indigenous hard wood tree species found in Kenyan forests. (3 marks)

(ii) Explain ***four*** problems facing natural forests in Kenya today. (8 marks)

(c) (i) Name ***two*** areas under large scale softwood forests in Canada. (2 marks)

(ii) Compare forestry in Kenya and Canada under the following sub-headings.

- Period of tree harvesting. (2 marks)
- Tree harvesting (2 marks)
- Transportation of logs. (2 marks)

8. (a) (i) What is visible trade? (2 marks)

(ii) Suppose you were an international business man, list ***three*** industrial goods you would import from Japan. (3 marks)

(b) Explain ***four*** factors that influence internal trade in Kenya. (8 marks)

(c) Why do you think trade is important in Kenya? (4 marks)

(d) Explain ***two*** benefits which member states of ECOWAS derive from the formation of the trading bloc. (4 marks)

(e) Your class intends to carry out a field study on the Nairobi Internation Trade Fair.

(i) State ***two*** methods you would use to collect data. (2 marks)

(ii) State ***two*** reasons why a pre-visit will be necessary. (2 marks)

9. (a) (i) Distinguish between a national park and a game reserve. (2 marks)

(ii) State ***three*** reasons why the government establishes national parks in Kenya. (3 marks)

(b) (i) Name three tourist attractions at the coast of Kenya. (3 marks)

(ii) Explain the socio-economic benefits of tourism in Kenya. (6 marks)

(c) (i) Give ***three*** reasons why high tourism potential areas benefit more from tourism. (3 marks)

(ii) Explain ***four*** measures that Kenyan government should take in order to attract more tourists. (8 marks)

10. (a) (i) Define the term transhumance. (2 marks)

(ii) State four characteristics of nomadic pastoralism. (4 marks)

(b) (i) Name three dairy breeds kept in Kenya. (3 marks)

(ii) Explain four conditions favouring dairy farming in the Kenyan highlands.

(8 marks)

(c) (i) State four limitations of beef farming in Kenya. (4 marks)

(ii) Give four similarities between beef farming in Kenya and Argentina. (4 marks)

THIS IS THE LAST PRINTED PAGE.

Name…….. **Adm No**…… **Class**……

Index No…….. **School**…….. **Sign** ……..

DATE ……..

Geography Paper 1

$2^{3}/_{4}$HOURS

EXTRA-COUNTY MOCK 2026

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

INSTRUCTION TO THE CANDIDATES.

a) *Write your name and admission number in the spaces provided.*
b) *In **section B** answer question 6 and any other **two** questions.*
c) *Answer section **A** and each question attempted in **section B** on a separate sheet.*
d) ***This paper consists of 6 printed pages***
e) ***Students should check the question paper to ensure that all pages are printed as indicated and that no questions are missing.***

For Examiner's Use Only

Section	Questions	Candidate's Score	Maximum Score
A	1 – 5		25
B	6		25
			25
			25
	Total Score		100

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SECTION A

Answer all questions in this section

1.

(a) Differentiate between a comet and a natural satellite. (2mks)

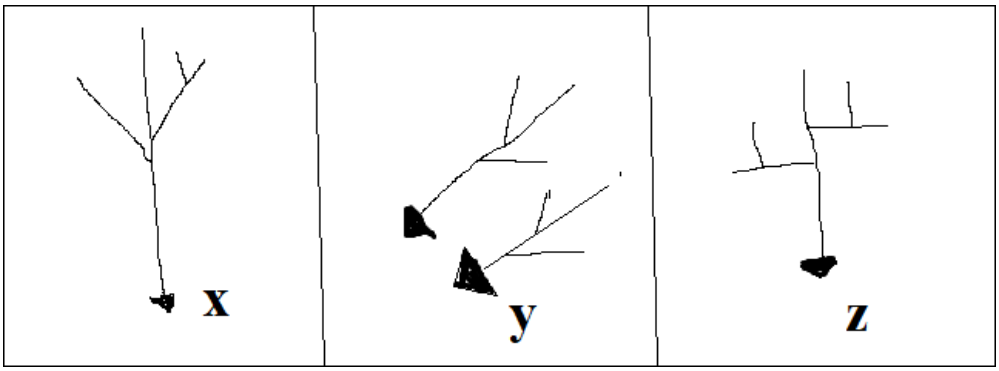
(b) State three characteristics of the crust in the internal structure of the earth. (3mks)

2.

(a) Identify two ways in which heat is transferred in the earth's atmosphere system. (2mks)

(b) State three factors that influence the amount of solar radiation that reaches on the earth's surface. (3mks)

3. The diagram below represents drainage patterns. Use it to answer questions.



(a) Identify the drainage patterns marked x, y and z (3mks)

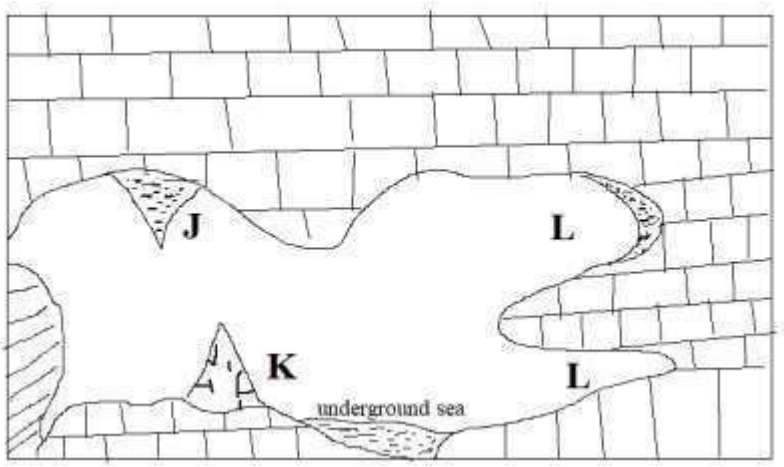
(b) Give two characteristics of arcuate deltas (2mks)

4.

a. What is chemical weathering (2mks)

b. Identify three processes of chemical weathering (3mks)

5. The diagram below represents underground features in a limestone area. Use it to answer question (a)



(a) Identify the features marked j, k and L (3mks)

(b) Give two problems associated with artesian wells (2mks)

SECTION B

Answer question 6 and any other two questions from this question.

6. Study the 1965 map of Mumias (sheet no. 101/2) provided and answer the following questions. (a)
   (i) Give the title of the Mumias map extract (1mks)
   (ii) What ids the vertica interval for the Mumias map. (2mks)
   (iii) Identify the magnetic declination of the map. (2mks)
   (iv) Give the latitudinal extent of the area covered by the map. (2mks)

   (b)
   (i) Darw a rectangle 10 cm by 8 cm to represent the area East of Easting 60 and North of Northing 40 (1mk)
   (ii) On the rectangle, mark and label the following features:
   - River Nzoia
   - Air Photo Principal Point
   - Mwira School.
   - Matangu Health Centre (5mks)

   (c)
   (i) Describe the drainage of the area covered by the map (6mks)
   (ii) Explain how the following factors have influenced settlement in the area covered by the map
   - Transport (2mks)
   - Drainage (2mks)

   (d) Give two economic activities carried out in the area covered by the map.

7. (a) Differentiate between a mineral and a rock (2mks)

   (b)
   (i) Describe the process of formation of mechanically formed sedimentary rocks (4mks)
   (ii) For each of the following metamorphic rocks, name the original rock from which they are derived
   - Graphite
   - Marble
   - Gneiss (3mks)

   (c) Explain four ways in which rocks are of significance to the economy of Kenya (8mks)
   (d) You are planning to carry out a field study on rock with the local environment.
   (i) List three methods you should use to record data. (3mks)
   (ii) State three problems you are likely to encounter (3mks)
   (iii) Give two follow up activities that you would undertake (2mks)

8. (a)
   (i) Identify three causes of earth building movements (3mks)
   (ii) Describe the theory of continental drift (7mks)

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(b) Give four types of folds

(4mks)

(c)

(i) In which counties are the following fold mountains located

Appalachian (1mk)

Atlas (1mk)

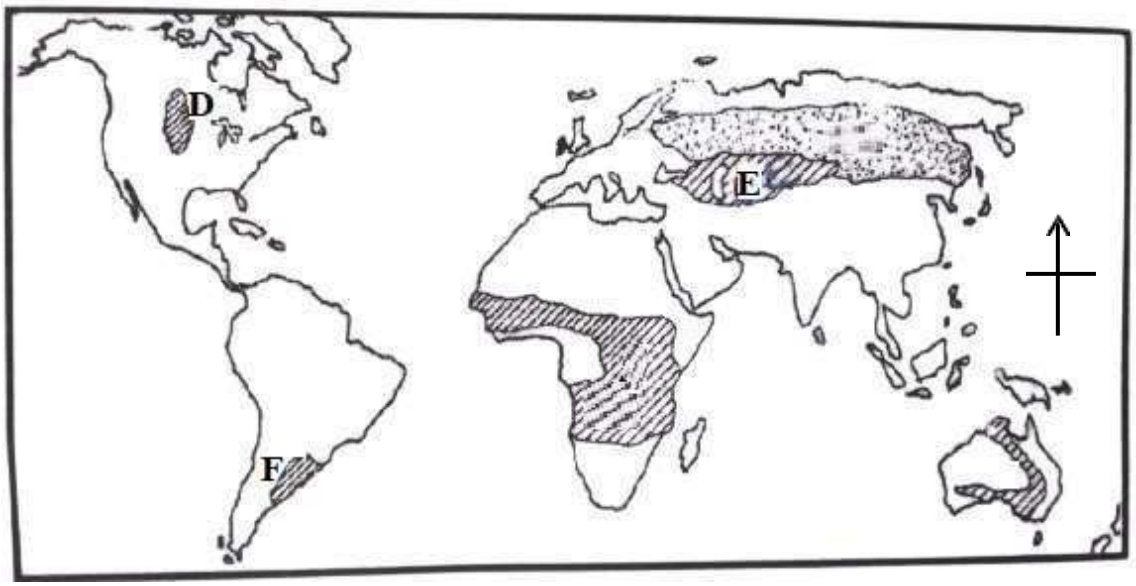
Himalayas (1mk)

(ii) Using well labeled diagram, describe how fold mountains are formed (8mks)

9.

(a) What is natural vegetation (2mks)

(b) The map below shows the same vegetation region of the world. Use it to answer question b(i)



(i) Name the temperate grasslands marked D, E and F (3mks)

(ii) State four characteristics of temperate (4mks)

(c) Explain three causes of the decline of the area under forests in Kenya (6mks)

(d) You are required to carry out a field study on a natural forest.

(i) Give three reasons why it would be appropriate to sample part of the forest (3mks)

(ii) Identify four methods of data collection you are likely to use. (4mks)

(iii) State three ways in which your findings will be useful to the local community (3mks)

10.

(a) Different between ocean and sea (2mks)

(b)

(i) Apart from coral islands, identify two other types of islands. (2mks)

(ii) Explain three conditions necessary for the growth of coral polyps (6mks)

(c) Using well labeled diagrams, describe how a stask is formed. (9mks)

(d) Explain three ways in which coral contributes to the economy of Kenya (6mks)

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Name…….. **Adm No**…… **Class**……

Index No…….. **School**…….. **Sign** ……..

DATE ……..

101/3

ENGLISH PAPER 3

TIME: 2½ hours

EXTRA-COUNTY MOCK 2026

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

INSTRUCTIONS TO CANDIDATES:-

- *Write your **name and index number** in the spaces provided above.*
- ***Sign** and write the **date** of examination in the spaces provided above.*
- *Answer **THREE** questions **ONLY.***
- *Questions **one** and **two** are compulsory.*
- *Each of your essay must not exceed **450** words.*
- *ALL answers must be written in Blue ink.*

For Examiner's Use Only:

Question	Maximum Score	Candidate's Score
1	**20**	
2	**20**	
3	**20**	
TOTAL	**60**	

1. IMAGINATIVE COMPOSITION (COMPULSORY) (20 MARKS)

EITHER

(a). Write a composition to illustrate the following saying: *You can never climb the ladder of success with your hands in the pockets*.

OR

(b) Write a composition on the negative effect of felling trees within your locality and explain how the youth can help in afforestration.

2. *PLAY, THE SAMARITAN By John Lara (20 MARKS)*

Loans that are procured by African leaders only help impoverish their citizens. Drawing illustrations from Paul Vitta's play The Samaritan, write an essay in support of the above statement.

3. EITHER

(a) *The short story (A Silent Song and Other Stories)*

Hostility meted by a parent against a child may end up destroying the child instead. Using the story The Sins of the Fathers by Charles Mungosi, write an essay in support of the above statement**.**(20 marks)

OR

(b) *Drama – Adipo Sidang' - Parliament of Owls.*

Choices have consequences. Illustrate the above statement using illustrations from Adipo Sidang's play
Parliament of Owls. (20 marks)

OR

(c) *The novel-Kazuo Ishiguro. An Artist of the Floating World*

In a situations of war, a lot of people are subjected to untold suffering. Drawing examples from Ishiguro's An Artist of The Floating World, write an essay to show the truth of this statement. (20 marks)

Name…….. **Adm No**…… **Class**……..

Index No…….. **School**…….. **Sign** ……..

DATE ……..

101/2

COMPREHENSION, LITERARY APPRECIATION & GRAMMAR JUNE, 2026

2 ½ hours

EXTRA-COUNTY MOCK 2026

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

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) Answer all questions in this question paper.
(d) All your answers must be written in the spaces provided in this question paper.
(e) This paper consists of 11 printed pages
(e) Candidates should check the question paper to ascertain that all the pages are printed and that no questions are missing.

FOR EXAMINER'S USE ONLY:

Question	Maximum Score	Candidate's Score
1	20	
2	25	
3	20	
4	15	
Total Score	80	

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1. ***Read the following comprehension passage and answer the questions that follow***

Ethnocentrism is a way of putting ourselves at the centre of everything and judging all others by our standards. It is a universal weakness and one that is at the **root** of most tribal and racial misunderstandings. While we consider ourselves superior and exalt our customs, we look down with scorn on those who behave differently from ourselves. They are lazy, unintelligent, immoral, un-enterprising, and materialistic. The more different these people are from us, the stronger our condemnation.

But this outlook raises a key question – what are the criteria for making these judgments? In each society, customs evolve to meet specific needs. It is when outsiders judge these customs against their own, particularly when they are very different, that they find them absurd, illogical or even downright savage.

Here in Kenya as many parts of Africa, old people are held in very high esteem. Custom demands respect for the old, and in some cases, superstition enforces it by threatening that if the old are treated badly, their ghosts will take revenge on those who were unkind to them. The old people therefore enjoy a great deal of respect; they are consulted in decision- making and they continue to head their house holds even when their sons are grown up. We find it **inconceivable** that the people could treat their old in any other way.

When we learn that some nomadic tribes in Australia and Brazil used to kill their old, we immediately label them as barbaric and uncivilized. And yet, for those people, it was a perfectly practical thing to do. They had to walk long distances in search of pasture, often with enemies in pursuit. The old were a burden and if captured would be tortured to death; it was kinder to kill them.

A further example of apparently strange behaviour is the treatment of old people in some modern European families. They put their old in homes for the aged, a practice which we may find cruel and selfish. Within the framework of these societies, however, this is quite acceptable. Many European houses are small, and domestic help is not readily available to care for the old. In an old people's home, they will have more company and attention. None of those ways is superior to the others. They are all ways of coping with the problem of the old and as long as they do not create discord in the society, they are justifiable.

Variations abound in all forms of behaviour. What, for example is the standard form of greeting? For some of us, the American nod of the head and 'Hi' may appear too casual and impersonal. To the Americans, our elaborate handshaking and exchange of courtesies may appear too

ritualistic and a waste of precious time. The Baganda women kneel in greeting. Those sensitive about equality of the sexes may find this behaviour objectionable. The French hug and kiss when they meet friends – some Africans may find this embarrassing.

The increased speed of travel has in a sense created a world community. There is even some validity in talking about the international man- one who can travel to any corner of the globe equipped with international language, dress and manners. But shall become sufficiently internationalized so that we are no longer ethnocentric or shall we always remain intolerant?

a) Why should we not condemn other people's customs? (2 marks)

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b) State the advantages of increased speed of travel. (2 marks)

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c) What does the writer achieve by contrasting the way Kenyans treat old people with the way the old were treated in Australia and Brazil (2 marks)

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d) What is at the root of tribal and racial misunderstanding and why? (3 marks)

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e) Explain the irony in the way some nomadic tribes in Australia and Brazil used to treat their old (2 marks)

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f) What is the writer's attitude towards the treatment of old people among the nomadic tribes of Australia and Brazil (3 marks)

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g) In not more than 40 words summarize the writer's evidence to prove that variations in behaviour abound (4 marks)

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h) Explain the meaning of the following words as used in the passage (2 marks)

i) Root .....

ii) inconceivable .....

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

"That's a bad idea, Mr. Longway. I'm a Gambian, Sir."

"All right, so you are a Gambian. Well, I am a South African. Now how has that helped advance world peace?"

"Sir, are you really a South

African?" "Yes, I am."

"This is the Gambia, Sir. Since the article you dropped looks valuable, you might never see it again, Sir. As a Gambian, I ought to know. Still, if you insist, I'll give it to the woman at the front desk."

"No, no, no. I've changed my mind. I'm coming down for it right away."

"That's a good idea, Mr. Longway. You'll find me standing near the phone booths. I'm wearing

white shoes and a red dress with white polka dots. You will not miss me, Sir. But if you do, I won't."

"I'll be there in five minutes." He was there in three.

She spotted him first. "Sir, it's me you are looking for," she said. “Mr. Longway, I am Fiona McKenzie, the stranger who phoned you."

"Are you? You see, the picture I had formed of you in my mind was not black at all. Wait. That did not come out right, did it? I meant on the phone you sounded Scottish, white anyway. Goodness, what am I saying?

Forget it. I am Tad. Tad Longway."

"I'm pleased to meet you, Sir. I am Fiona. Fiona McKenzie. She handed him something. “That's the article I was telling you about, Sir.” It was a key card to her office at the VOA.

He looked at it. Then he gave it back to her. "Not mine," he said. "The tag says VOA, and I have no ties with the VOA."

"Then I interrupted your shower for nothing. Yet I can swear I saw you drop this very key card, Mr. Longway."

"Now, now, Ms. McKenzie. Don't go burn yourself at the stake just for this, okay? In fact, since you've gone to all this trouble for my sake, why don't you let me buy you a drink? It's time for my evening Martini anyway. So what's your poison?"

Questions

a) Describe what happens just before this excerpt. (3 marks)

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b) "That's a bad idea, Mr. Longway." What was Fiona referring to as a bad idea? (2 marks)

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c) Identify and illustrate three features of style used in this excerpt. (6 marks)

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d) Explain why Tad was surprised when he first met Fiona. (2 marks)

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e) How has Ms. Mckenzie been brought out in this excerpt? (4 marks)

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f) Who is Mr. Longway and why was Fiona so interested in meeting him? (3 marks)

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g) What happens after this excerpt? (3 marks)

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h) Rewrite the following sentences according to the given instructions (2 marks)

i) He looked at it. Then he gave it back to her. (Write as one beginning: After...)

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ii) "Sir, it's me you are looking for," she said. (Rewrite in reported speech)

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3. POETRY (20 MARKS)

Read the following poem and then answer the questions that follow. In

the city

All moving the Lord knows
where, Dressed in suits and
tatters,
Bowties, tights, ochred sheets and
earrings, All thinking of things to
come,
Africa is in a state of
opportunity, All look for easy
chances.

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Of self-upliftment or undeserved
promotion That often mirage further
and further Making frustrate
Minds that should be content

It is a time of opportunity-
When one line makes a poet
And a little acquaintance or
chance Rockets one to the
highest office

But the peasant, the pillar of the
nation, Has only to cope with prices
that shift Like the waves that rock
the ship carrying yellow maize to
the city.

The employed call out strikes
That only deplete the little
funds That may relieve the
peasant-

The elder brother keeps the younger in
hunger At home, if there's any,
The child plays with an empty
bottle, Cries for more milk
When the cost is daily on the rise

While the incomes remain static
And the higher brackets are daily
filled By youths that will not retire
Within this century.
The child laughs
gaily,
Displaying its only four
teeth That show it grows to
eat,
Unaware of all that shapes her decade

Adapted from a poem by Joseph G. Mutiga

a) Who is the persona in the poem? (2 marks)

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b) Briefly describe what the poem is about. (4 marks)

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c) Explain the significance of the first line in the poem. (2 marks)

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d) Identify two aspect of irony in the poem. (2 marks)

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e) Apart from irony show the effectiveness of two features of style used in the poem (4 marks)

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f) Describe the tone of the poem (2 marks)

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g) Discuss two themes brought out in the poem. (4 marks)

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4. a) Rewrite the following sentences according to the instructions given after each. Do not change the meaning (4 marks)

i) Sociologists think a poor background can lead to baby battering.

(Begin: Baby battering…)

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ii) We know the kind of house we would like to build, all that remains is how to find the money required. (Rewrite using the word "question")

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iii) We were very disappointed when only a handful of people turned up for the first meeting. (Begin: To our…)

……

……

……

iv) He gives most of his spare time to charitable work for the disabled. (Use: "devote")

……

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b) Fill the blank spaces with the correct form of the words in brackets. (3 marks)

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i) Kimani has not yet recovered from his _____(dread) encounter with robbers.

ii) Besides the men, Mau Mau also had several _____(hero) who fought for our independence.

iii) The couple has applied for a divorce over ..... differences. (reconcile).

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c) Explain the difference in meaning of these sentences (2 marks)

i) He painted his house during the weekend

ii) He had his house painted during the weekend

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d) *Choose the correct word to fill in the blank spaces.* *(3 marks)*

i) I came here with Don and .....(she ,her)

ii) Between you and..... (I, me) who is more generous?

iii) I can run faster than .....(him, he)

e) Rewrite each of the sentences below correcting the mistake in it (3 marks))

i) Running across the field, a thorn pricked my foot.

……

ii) He received a message from his mother but did not reply back

……

iii) She bought all what she required in the supermarket

……

Name…….. **Adm No**…… **Class**……

Index No…….. **School**…….. **Sign** ……..

DATE ……..

101/1

ENGLISH JOINT
EXAMS.

(Functional skills) JUNE 20246 Time:
2hours

EXTRA-COUNTY MOCK 2026

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

Instructions to candidates

(a) Write your name and index number in the spaces provided.
(b) Sign and write the date of the examination in the spaces provided.
(c) Answer all the questions in this paper.
(d) All your answers **MUST** be written in the spaces provided in the question paper
(e) This paper consists 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 **MUST** answer the questions in English

For examiners use only		
Question	**Maximum**	**Candidates score**
1	**20**	
2	**10**	
3	**30**	
TOTAL SCORE	**60**	

QUESTION 1: FUNCTIONAL WRITING **20 MARKS**

Excelsior University Linguistics Department has advertised positions for research assistants to carry out a study on reading habits of the youth in Msomi County. Following your successful application, you receive an invitation to join the research team, and are informed to design a sample questionnaire to be used to collect data from respondents during the study.

a) Write a letter accepting the appointment, and find out the following:
   i The commencement date of the study
   ii The duration of the study
   iii Terms and conditions of service **(12 marks)**

b) Design a sample questionnaire to be used during the study **(8 marks)**

QUESTION 2: CLOZE TEST **10 MARKS**

Read the passage below and fill in each blank space with the most appropriate word.

The world's biggest solar **(1)** _____ has come online in China, capable of powering a small country

(2) _____ its annual capacity of more than 6 billion kilowatt hours.

The facility, **(3)** _____ a desert region of the north-west province of Xinjiang, covers 200,000 acres – roughly the same area **(4)** _____ New York City.

The 5GW complex, **(5)** _____ was connected to China's grid on Monday, is **(6)** _____ enough to meet the electricity demands of a country the size of Luxembourg **(7)** _____ Papua New Guinea.

China has **(8)** _____ the world in solar power adoption, boosting **(9)** _____ capacity in 2023 by more than 50 per cent. The new solar farm overtakes the Ningxia Teneggeli and Golmud Wutumeiren solar projects, which are **(10)** _____ also in China, to become the largest in the world.

QUESTION 3: LISTENING AND SPEAKING **30 MARKS**

a) *Read the story below and answer the questions that follow:*

At the beginning there was a huge drop
of milk Then Enkai came and he created
the stone Then the stone created iron;
And iron created fire;
And fire created water
And water created air…. air
And water created air
Then Enkai descended the second
time And he took five elements
And he shaped them into

man Bu man was proud
Then Enkai created blindness and blindness
defeated man But when blindness became too
proud
Enkai created sleeep, and sleep defeated
bindness But when sleep became too proud
Enkai created worry and worry defeated
sleep But when worry became too proud
Enkai created death, and death defeated
worry But when death became too
proud
Enkai descended for the third time
And he came as Oleltin, the external
one And Oleltin defeated death.

Questions

i Identify and illustrate **one** dominant feature that makes the above item oral. **(2marks)**

ii What reaction would the last line of the story evoke in the audience? Explain. **(2marks)**

iii If you were performing this story to an audience, why would it be important to maintain eye contact with them? **(3marks)**

b) *State the intonation pattern in the following sentences.* *(5marks)*

i. What do you think took my book? _____

ii. Can you help me? _____

iii. Leave her alone! _____

iv. There is always next time, isn't there? _____

v. They have been working hard in school. _____

c) *In the passage below, replace the underlined words with the correct word of the same pronunciation.*
(5 marks)

The Odyssey is a rip-roaring tale. In the course of his journey, Odysseus guides his ship through **straights (1)** and across stormy waters. On his **root (2)** homeward, he listens to the **please (3)** of his men as monsters **seas (4), mall (5)** and **sleigh (6)** them. Tied to the ship's **massed (7),** he hears the sirens' call. He consults the **profit** (8) and **praise** (9) to the gods, who constantly **medal** (10) in human affairs, often in response to their own minor jealousies about each other.

1. …… **6.** ……

2. …… **7.** ……

3. …… **8.** ……

4. …… **9.** ……

5. …… **10.** ……

d) Your school is participating in a debate and the motion is "Parents should let children decide their own destiny." How would you ensure that your arguments are convincing?
(3 marks)

In a conversation, what clues do speakers use to signal that they are ready to become listeners?

(4 marks)

e) **During one of your club meetings, you are requested to introduce your new patron to the club members. Explain what you would do to carry out this task successfully.**

(4 marks)

f) **Identify the stressed syllables in the following words by underlining them.** **(2 marks)**

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Kenya Certificate of Secondary Education

313/2 **Paper 2**

EXTRA-COUNTY MOCK 2026

Duration 2 ½ hours

Name……..Index No……

School……Signature……Stream…….

Instructions to the candidates

a) Write your name and Index number in the spaces provided above

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

*c) Answer any **five** questions in the spaces provided at the end of question 6.*

d) Each question carries 20 marks

For Examiner's Use Only

Question	1	2	3	4	5	6	Candidate's Total Score
Candidate's Score							

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1. (a) With reference to Luke 1:13 -17, outline the message of angel Gabriel about John to Zechariah. (7marks)

   (b) Describe activities that took place during the dedication of Jesus in the Temple (Luke 2: 22 - 40). (7marks)

   (c) State *six* ways in which Christians show respect to places of worship in Kenya today. (6marks

2. (a)What do Christians learn about Jesus from the incident when he was baptized? (6marks)

   (b) Describe the temptation of Jesus in the Wilderness. (Luke 4: l -13). (7marks)

   (c) Outline *seven* lessons Christians learn from the temptation of Jesus. (7marks)

3. (a) State accusations that were made against Jesus during his trial (Luke 22: 66 - 23: 1 - 23). (6 marks)

   b) How did Jesus reveal himself to the two men going to Emmaus? (Luke 24:13-31). (7marks)

   (c) Give *seven* reasons why Jesus appeared to His disciples after resurrection. (7marks)

4. (a) Outline *seven* ways in which Peter's life was transformed on the day of Pentecost (Acts 4:211-40). (7 marks)

   b) Explain how the unity of believers is expressed in the image of the people of God (1 Peter 2:9-10 (7marks)

   (b) State *five* reasons why the use of the gifts of the Holy Spirit brought disunity in the church at Corinth. (6marks)

5. (a) Identify *seven* causes of premarital sex among the youth in Kenya today. (7marks)

   (b) Explain the Christian teaching on marriage. (7marks)

   (c) Give *six* reasons why virginity is encouraged in both traditional African communities and Christianity. (6marks)

6. (a) Explain how science and technology has improved human life. (8 marks)

(b) Give *six* reasons why Christians are opposed to euthanasia. (6 marks)

(c) Identify ways in which science and technology negatively has affected the environment. (6marks)

THIS IS THE LAST PRINTED PAGE.

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Name…….. **Adm No**…… **Class**……

Index No…….. **School**…….. **Sign** ……..

DATE ……..

313/1

CRE

PAPER 1

TIME: 2 ½ HOURS

EXTRA-COUNTY MOCK 2026

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

INSTRUCTIONS TO CANDIDATES

a) *Write your name and index number in the spaces provided above*
b) *Sign and write the date of examination in the spaces provided above*
c) *This paper consists of six questions.*
d) *Answer any **five** questions in the spaces provided at the end of question 6*
e) *Each question carries 20 marks*
f) ***Candidates should check the question to ascertain that all the pages are printed as indicated and that no questions are missing.***
g) *Candidates should answer the questions in English*

For Examiner's Use Only

Question						Candidate's total score
Candidate's score						

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1. a) Give **seven** reasons why Christians read the Bible. (7mks)

b) Outline the consequences of sin from the fall of human beings in Genesis 3 (7mks)

c) Identify **six** ways through which the church disciplines errant members today. (6mks)

2. a) Describe the call of Moses in Exodus 3: 1-22 (8mks)

b) Give **six** reasons why the Exodus was important to the Israelites. (6mks)

c) Identify s**ix** values that a Christian can learn from the call of Moses. (6mks)

3. a) Explain the reasons why Samuel was against kingship in Israel. (7mks)

b) Outline the factors that led to the spread of idolatry in Israel during the time of prophet Elijah. (7mks)

c) Identify **six** lessons Christians learn from the ministry of prophet Elijah. (6mks)

4. a) Outline the role of the Old Testament prophets. (7mks)

b) Give **seven** reasons why prophet Amos was against the way the Israelites worshipped God. (7mks)

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

5. a) Outline **seven** evils condemned by Prophet Jeremiah during the temple sermon in Jer.7:1-8: 3 (7mks)

b) Identify **seven** ways through which God would punish the people of Judah according to prophet Jeremiah (7mks)

c) State the lessons that Christians can learn from Jeremiah's temple sermon. (6mks)

6. a) Explain **seven** reasons why marriage in traditional African communities is regarded as a covenant.

(7mks)

b) Identify **six** roles of a Diviner in traditional African communities. (6mks)

c) State **seven** factors that promote harmony and mutual responsibility in Kenya today. (7mks)

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Apparatus

1. Burette
2. Pipette
3. 2 boiling tubes – Pyrex/ Borosil
4. Glass rod
5. Thermometer
6. 250ml volumetric flask
7. 1 label
8. 2 conical flasks
9. Funnel
10. Metallic spatula
11. Filter paper
12. Clamp and stand
13. 6 test tubes

Reagents

1. 4g of solid P
2. 100cm³ of solution Q
3. 500ml distilled water
4. About 1.0 g of solid K
5. About 0.5 g of solid L
6. 10ml of 2M nitric (V) acid

Access to

i. Source of heat
ii. Phenolphthalein indicator
iii. 2M sodium hydroxide solution
iv. 2M ammonia solution
v. Bromine water
vi. Acidified barium nitrate
vii. Acidified potassium manganate (VII)

NOTES

1. Solution Q is 0.2M sodium hydroxide solution (8g/l)
2. Solid P in ethanedioic acid (Oxalic acid)
3. Solid K is a mixture of hydrated sodium sulphate and zinc oxide in ratio 1: 1
4. Solid L is maleic acid

Name..... Index No.....

School..... Sign.....

Class..... Stream.....

Date.....

EXTRA-COUNTY MOCK

2026

Kenya Certificate of Secondary Education

233/3 – CHEMISTRY

(PRACTICAL)

JUNE. 2024 - 2¼ Hours

INSTRUCTIONS TO THE CANDIDATES:

- *Write your name, Index number, Admission number and date of examination in the spaces provided at the top of the page.*
- *Answer all the questions in the spaces provide below each question.*
- *Mathematical tables and electronic calculators may be used.*
- *All working MUST be clearly shown where necessary.*
- *You are NOT allowed to start working with the apparatus for the first 15 minutes of the 2 ¼ 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.*

For examiner's use only

Question	Max. score	Candidate's score
1	22	
2	12	
3	06	

Total score	**40**	

This paper consists of 6 ***printed pages excluding the cover page****. Check to ascertain that all pages are printed as indicated and that no questions are missing.*

1. You are provided with the following
    - 4g of solid P – an organic acid, $H_2C_2O_4.\mathbf{n}H_2O$
    - 0.2M sodium hydroxide solution Q

You are required to determine

i. The solubility of solid P

ii. The value of n in the formula $H_2C_2O_4.\mathbf{n}H_2O$

Procedure I

i. Fill in the burette with distilled water

ii. Transfer all the solid P in a clean dry boiling tube and add to it 4cm³ of distilled water from the burette. Heat the mixture while stiring with the thermometer until all the solid dissolves. When all the solid has dissolved, allow the solution to cool while stiring with the thermometer. Note the temperature at which crystals **just** start forming and record it in **table 1.**

iii. Add 2cm³ of distilled water to the contents of the boiling tube. Warm the mixture while stiring with the thermometer until all the solid dissolves, allow the mixture to cool while stiring with the thermometer and record the temperature at which crystals of solid P first appear.

iv. Repeat procedure (iii) above three more times each time adding 2cm³ of distilled water. *Retain the contents of the boiling tube for use in procedure II*

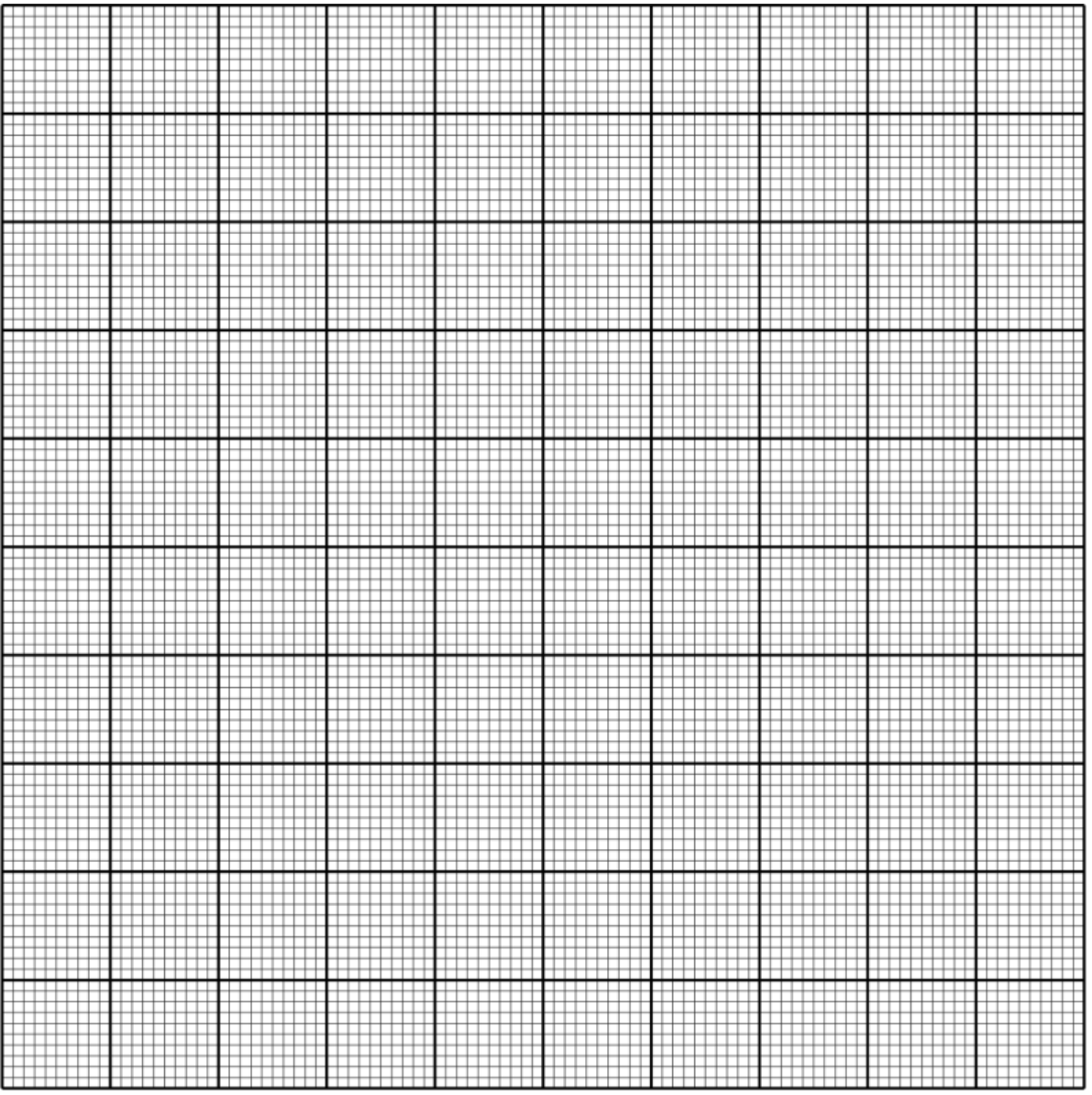
a) Complete **table 1** by calculating the solubility of solid P at the different temperature

Table 1

Experiment	1	2	3	4	5
Volume of water (cm³)	4	6	8	10	12
Temperature at which crystals first appear (°C)					
Solubility of P in g/100g of H_2O					

(5mks)

b) On the grid provided plot a graph of solubility of P in g/100g of water (vertical axis) against temperature



(3mks)

c) From the graph determine

i) The solubility of solid P at 40°C (1mk)

……

……

ii) The temperature at which 35g of solid **P** will dissolve in 100g of water (1mk)

……

……

iii) From the graph determine the mass of solid **P** which will be deposited if 45g of solid in 100g of water at 50°C is cooled to 35°C (2mks)

……

……

……

Procedure II

i) Transfer the solution from procedure I above into 250ml volumetric flak. Rinse both boiling tube and thermometer with distilled water and add to the volumetric flask. Add distilled water to the flask up to the mark. Label it as solution **P**

ii) Pipette 25cm³ of solution **Q** into 250cm³ conical flask. Add 2 – 3 drops of phenolphthalein indicator.

iii) Fill the burette with solution **P** and titrate against solution **Q**.

iv) Record the results in the table below

v) Repeat the titration two more times and complete table 2

Table 2

Titration	I	II	III
Final burette reading (cm³)			
Initial burette reading (cm³)			
Volume of solution P used (cm³)			

(4mks)

Calculate

i) Average volume of solution **P** used (1mk)

……

……

ii) Number of moles of solution **Q** used (1mk)

……

……

iii) Number of moles of solution **P** used (1mk)

……

……

iv) Molarity of solution **P** (1mk)

……

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v) Determine the value of **n** (2mks)

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2.

a) You are provided with mixture **K**. Carry out the following tests and record the observations inferences in the spaces provided.

i) Put all of the solid K in a boiling tube and add about 10cm³ of distilled water. Shake well and filter the mixture into a boiling tube. **Retain** the filtrate.

Observations	Inferences
(1mk)	(1mk)

ii) Put the residue in a test tube and add about 5cm³ of dilute nitric (V) acid

Observations	Inferences
(½mk)	(1mk)

iii) To about 2cm³ of the solution in (ii) above , add ammonia drop – wise until excess

Observations	Inferences
(1mk)	(½mk)

b)

i) Divide the filtrate into 3 portions. To the 1st portion, add sodium hydroxide dropwise until in excess

Observations	Inferences
(1mk)	(2mks)

ii) To the 2nd portion, dip a clean glass rod and heat it in a non – luminous flame

Observations	Inferences

(1mk)	(1mk)

iii) To the 3rd portion, add 3 drops of acidified barium nitrate solution

Observations	Inferences
(1mk)	(1mk)

3. You are provided with solid L. carry out the tests below and write your observations and inferences in the spaces provided.

i) Take a half – spatula full of solid L and burn it in a non – luminous flame

Observations	Inferences
(1mk)	(1mk)

ii) Put the rest of solid L in a boiling tube and add about 6cm³ of distilled water. Shake well and divide the solution into three portions

I. To the first portion, add 4 drops of acidified potassium Manganate (VII)

Observations	Inferences
(1mk)	(1mk)

II. To the second portion, add 4 drops of bromine water

Observations	Inferences
(1mk)	(1mk)

Name…….. **Adm No**…… **Class**……

Index No…….. **School**…….. **Sign** ……..

DATE ……..

233/2

CHEMISTRY
PAPER 2

TIME: 2 HOURS

EXTRA-COUNTY MOCK 2026

Instructions to candidates

(a) Write your Name, Stream, Admission Number and sign in the spaces provided above.
(b) Answer all the questions in the spaces provided in the question paper.
(c) KNEC mathematical tables and electronic calculators may be used for calculations.
(d) All workings MUST be clearly shown where necessary.
(e) This paper consists of 13 Printed pages. 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 the questions in English.

FOR EXAMINERS USE ONLY

Questions	Maximum Score	Candidate's Score
1	12	
2	11	
3	13	
4	13	
5	11	
6	11	
7	09	
TOTAL	80	

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

D								
							J	
E	**F**		**H**					
	G						**K**	

i) What name is given to the group in which **J** and **K** belong? (1 mark)

……

……

ii) Explain why element **D** can be placed in two positions in the periodic table? (1 mark)

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iii) The ionic radius of **K** is larger than that of **G**. Explain. (2 marks)

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iv) Compare reactivity of element **F** and **G**. Explain. (2 marks)

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v) The electron configuration of ion X^{2-} is 2.8.8. On the grid, indicate the position of X. (1 mark)

b) Study the information in the table below and answer the questions that follow. (The letters do not represent the actual symbols of the substances.)

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Substance	Melting point (°C)	Boiling point (°C)	Solubility in water	Density at room Temperature g/cm^3
A	-117	78.5	Very soluble	0.8
B	-78	-33	Very soluble	0.77×10^{-3}
C	-23	77	Insoluble	1.6
D	-219	-183	Slightly soluble	1.33×10^{-3}

i) Which substance would dissolve in water and could be separated from the solution by fractional distillation? Explain. (2 marks)

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……

ii) Which substance is a liquid at room temperature and when mixed with water two layers could be formed. Explain. (1 mark)

……

……

iii) Which letter represents a substance that is a gas at room temperature and which can be collected;

I. Over water. (1 mark)

……

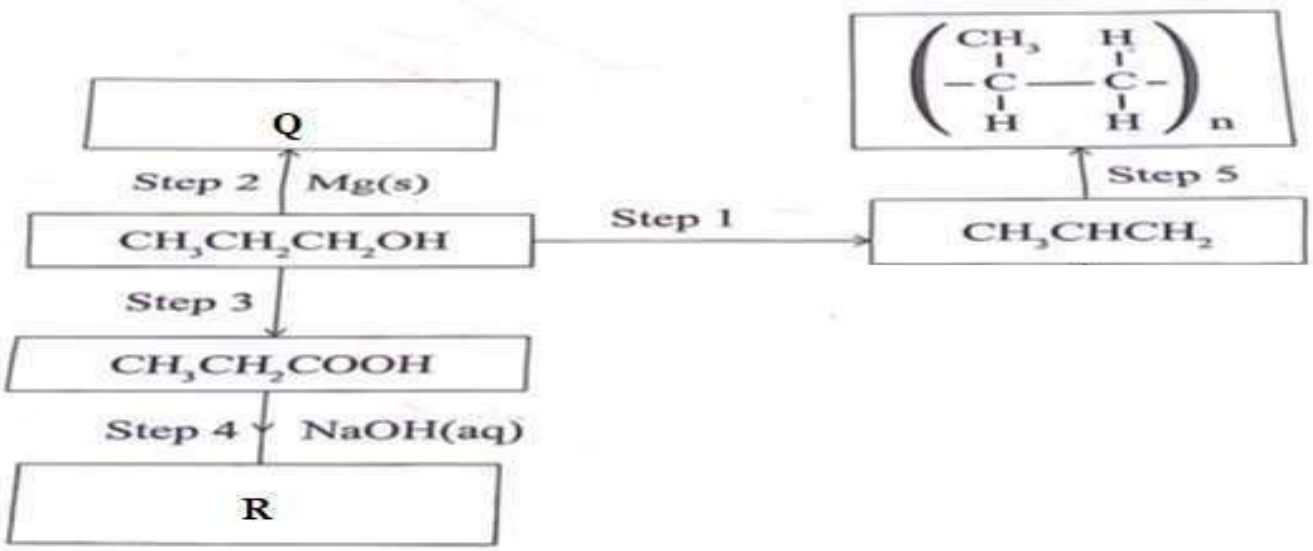
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II. By downward displacement of air (Density of air 1.29 $\times 10^{-3}$ g/cm^3 at room temperature) (1 mark)

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2. The flow chart below shows reactions of some organic compound



(a) Write the formula and give the names of compounds

(i) Q (2 marks)

Name ……

Formula……...

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(ii) R (2 marks)

Name……...……

Formula……...

(b) Give reagents and conditions necessary for carrying out

(i) **Step 3** (1 mark)

……

……

(ii) **Step 5** (1 mark)

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……

(c) **Step 1** can be carried out using concentrated Sulphuric (VI) acid and heat. Name another reagent and conditions that can be used to carry out **step 1** (1 mark)

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(d) Give the name of the type of reaction taking place in
(i) Step **1** (1 mark)

……

(ii) Step **5** (1 mark)

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(e) (i) Write an equation for the reaction in **step 4** (1 mark)

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(ii) State the observation made in **step 2** (1 mark)

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3. **I)** Use standard electrode potentials for elements A, B, C, D and F given below to answer the questions that follow.

	E^{θ}(Volts)
$A^{2+}_{(aq)} + 2e^{-} \rightarrow A_{(s)}$	–2.90
$B^{2+}_{(aq)} + 2e^{-} \rightarrow B_{(s)}$	–2.38
$C^{+}_{(aq)} + e^{-} \rightarrow \frac{1}{2}C_{2(g)}$	0.0
$D^{2+}_{(aq)} + 2e^{-} \rightarrow D_{(s)}$	+0.34
$\frac{1}{2}F_{2(g)} + e^{-} \rightarrow F^{-}_{(aq)}$	+2.87

a) Identify the strongest oxidizing agent. (1 mark)

……

b) Which **two** half-cells would produce the highest potential difference when combined? (1mark)

……

c) Draw a labelled diagram of the electrochemical cell that would be obtained when half-cells above (b) is formed. Show the direction of the flow of electrons. (3 marks)

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d) Calculate E^{θ} value of the electrochemical constructed above. (2 marks)

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e) Is it advisable to store a solution of a nitrate of D in a container of metal B? Explain. (2marks)

……

……

II) During the electrolysis of aqueous copper (II) sulphate using copper electrodes, a current of 0.2 amperes was passed through the cell for 5 hours.

i) Write the ionic equation for the reaction that took place at the anode. (1 mark)

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.ii) Determine the change in mass of the anode which occurred as a result of the electrolysis process.

(Cu = 63.5, 1 Faraday = 96500 Coulombs) (3 marks)

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4. The table below shows the volumes of nitrogen (IV) oxide gas produced when different volumes of 1 M nitric (V) acid were each reacted with 2.07g of lead at room temperature.

Volume of 1M nitric (V) acid (cm^3)	5	15	25	35	45	55
Volume of nitrogen (IV) oxide gas (cm^3)	60	180	300	420	480	480

a) Give a reason why nitric (V) acid is not used to prepare hydrogen gas. (1 mark)

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b) Explain how rate of the reaction between lead and nitric (V) acid would be affected if the temperature of the reaction was raised. (2 marks)

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On the grid provided plot a graph of the volume of the gas produced (vertical axis) against the volume of acid. (3 marks)

c) Using the graph, determine the volume of:

i) Nitrogen (IV) oxide produced when $30cm^3$ of 1M nitric (V) acid were reacted with 2.07g of lead.

(1 mark)

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ii) 1M nitric (V) acid which would react completely with 2.07g of lead. (1 mark)

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d) Using the answer in (ii) above determine:

i) The volume of 1M nitric (V) acid which would react completely with one mole of lead (Pb = 207)
(2 marks)

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ii) The volume of nitrogen (IV) oxide gas produced when one mole of lead reacts with excess 1M nitric (V) acid at room temperature. (1 mark)

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e) Calculate the number of moles of:

i) 1 M nitric (V) acid that reacted with one mole of lead. (1 mark)

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ii) Nitrogen (IV) oxide produced when one mole of lead was reacted with excess nitric (V) acid.

(Molar gas volume at r.t.p = 24000cm^3) (1 mark)

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5.a) State the Hess's law. (1 mark)

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b) Use the following standard enthalpies of combustion of graphite, hydrogen and enthalpy of formation of propane.

ΔH_C^θ (Graphite) $= -393 kJmol^{-1}$

ΔH_C^θ ($H_{2\,(g)}$) $= -286 kJmol^{-1}$

ΔH_f^θ ($C_3H_{8\,(g)}$) $= -104 kJmol^{-1}$

i) Draw an energy cycle diagram that links the heat of formation of propane with its heat of combustion and the heat of combustion of graphite and hydrogen. (2 marks)

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ii) Calculate the standard heat of combustion of propane. (2 marks)

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iii) Calculate the heating value of propane (C=12.0, H=1.0) (1 mark)

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iv) Write thermochemical equation for the combustion of propane (1 mark)

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d) Other than the enthalpy of combustion, state **two** other factors which should be considered when choosing a fuel. (2 marks)

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e) The molar enthalpies of neutralization for dilute hydrochloric acid with sodium hydroxide solution is $-57.2kJmol^{-1}$ while that of ethanoic acid with sodium hydroxide solution is $-55.2kJmol^{-1}$. Explain this observation. (2 marks)

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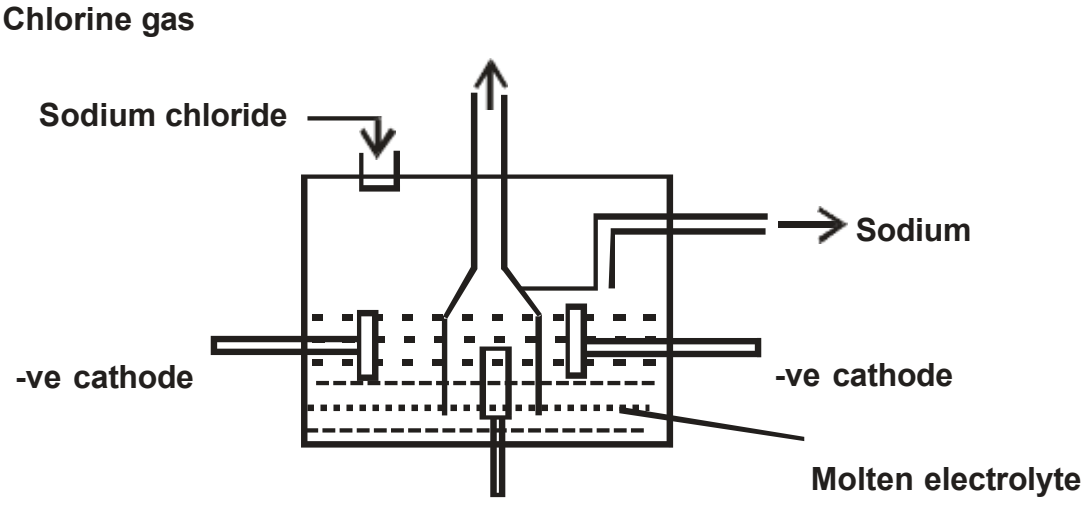
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6. Below is a simplified diagram of the Down's cell used for the manufacture of sodium.

Study it and answer the questions that follow.



i) Name the material of which the cathode and anode is made of. (1 mark)

……

ii) What precaution is taken to prevent chlorine and sodium from recombining? (1 mark

……

……

iii) Write an equation for the reaction that takes place at the cathode and anode. (2 marks)

Cathode

……

……

Anode

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……

iv) Name the salt that is added in this process and give the reason. (2 marks)

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v) Why is sodium chloride solution not suitable as an electrolyte for the manufacture of sodium metal? (2 marks)

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vi) Sodium metal reacts with air to form two products. Name the products formed. (2 marks)

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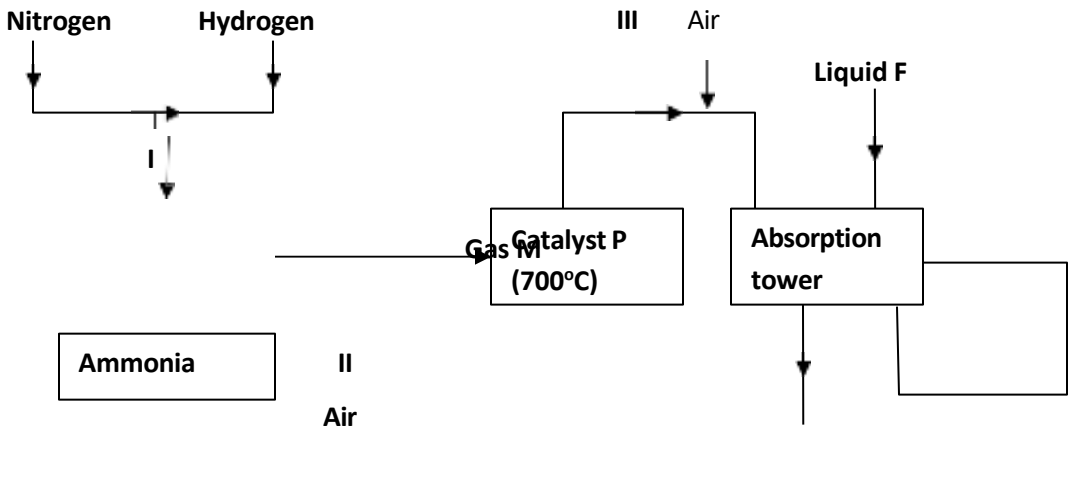
vii) State **one** use of sodium metal. (1 mark)

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7. Study the flow chart below and answer the questions which follow:



(i) Give **one** source of the following raw materials (2marks)

(a) Nitrogen gas

……

(b) Hydrogen gas

\……

(ii) State **two** conditions required in process **I** (1mark)

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(iii) Name:

I) catalyst **P** (1mark)

……

II) Gas **M**

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……

(iv) Write chemical equations for; (2marks)

(a) Formation of gas **M**

……

(b) The reaction in the absorption tower

……

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(v) Give **two** reasons why step IV is necessary (2marks)

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(vi) Give **one** use of nitric (VI) acid (1mark)

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THIS IS THE LAST PRINTED PAGE OF THIS PAPER

Name ……. **Index No…….**

School …… **Adm No …….**

Stream …….. **Candidates Signature……**

233/1

CHEMISTRY

Paper 1

THEORY

Time 2 Hours

Kenya Certificate of Secondary Education

CHEMISTRY

Paper 1

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) Answer **all** the questions in the spaces provided in the question paper.*
*(d) **Non-programmable** silent-electronic calculators and KNEC mathematical tables may be used.*
*(e) All working **must** be clearly shown where necessary.*
*(f) **This paper consists of 20 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 question in English.

For Examiner's Use Only

QUESTIONS	MARKS OUT OF 80

1 – 27	

1. An ion of element Q can be represented as $^{32}_{16}Q^{2-}$

a) Draw the structure of the ion (2mk)

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b) How does the ionic radius of Q compare with its atomic radius? Explain. (1mk)

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2. A white crystalline solid Q when heated forms a brown gas, a colourless gas that relights a glowing wooden splint, and a yellow residue that turns white on cooling. Aqueous solution of Q reacts with excess aqueous ammonia solution to form a colourless solution P.

a) Write the name and chemical formulae of complex ion in solution P. (2mks)

Name..... Chemical

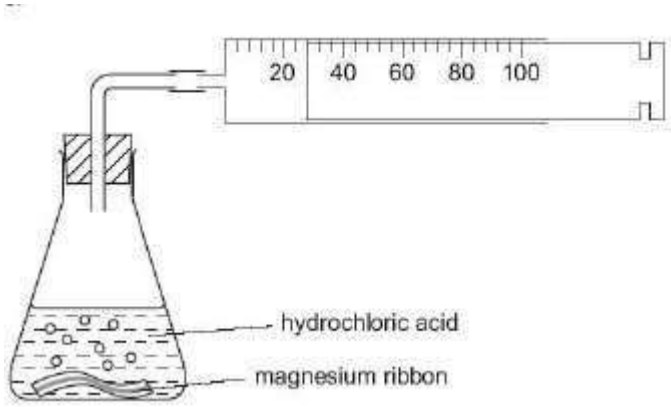
Formula……

b) Write the chemical equation for the formation of the gases (1mk)

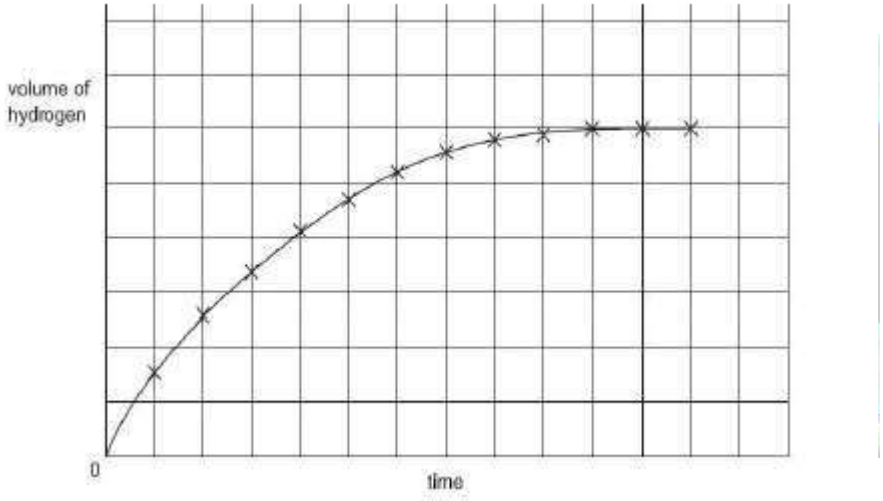
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3. The rate of a reaction depends on the concentration of reactants, temperature, and possibly a catalyst. A piece of magnesium ribbon was added to 100cm^3 of 1M HCl. The hydrogen evolved was collected in a gas syringe and its volume was measured every 30 seconds



The results were plotted to give a graph shown below



a) The experiment was repeated. Two pieces of magnesium ribbon were added to 100cm^3 of 1M HCl. Sketch this graph on the same grid and label it **X** and comment on the volume of hydrogen produced. (1mk)

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b) The experiment was repeated using one piece of magnesium ribbon and 100cm^3 of 1.0M ethanoic acid. Describe how the shape of the graph would differ from the one given on the grid. (2mks)

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4. The empirical formula of a compound is CH_2 and it has a molecular mass of 42.

a) What is the molecular formula of this compound? (1mk)

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b) Write the general formula of the homologous series to which the compound belongs.

(1mk)

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c) Draw the structural formula of the third member of this series and give its IUPAC name. (1mk)

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5. The table below gives some information about four elements. The letters are not their actual symbols.

Elements	valences	Atomic radii(nm)	Ionic radii(nm
K	2	0.136	0.065
L	7	0.099	0.181
M	1	0.099	0.181
N	2	0.174	0.099

a) Write the electron arrangement of any element in the same chemical family as element L. (1mk)

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b) Compare the reactivity of elements K and N. (1mk)

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c) Account for the difference in ionic and atomic radii of element M. (1mk)

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6. The pH values of solutions **A, B, C**, and **D** are shown in the table below. (2mks)

Solution	pH	Name of the Solution
A	9.7	
B	2.1	
C	5.3	
D	12.2	

The four solutions were NaOH (aq), CH_3COOH (aq), H_2SO_4(aq), and NH_4OH (aq). Complete the table by naming the solution corresponding to solutions **A, B, C** and **D**.

7. Zinc metal and hydrochloric acid react according to the following equation

$Zn_{(s)} + 2HCl_{(ag)} \longrightarrow ZnCl_{2\,(aq)} + H_2$

1.96g of Zinc metal was reacted with 100cm3 of 0.2M hydrochloric acid

a) Determine the reagent that was in excess (2mks)

(Zn=63.5; Molar gas volume at s.t.p = 22.4 litres)

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b) Calculate the total volume of hydrogen gas that was liberated at s.t.p (1mk)

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8. The table below shows the procedures, observations, and inferences made on **Solid A**. Study the table and complete it by filling in missing procedures, inferences, and observations.

i) Procedure	**Observation**	**Inference**
a. Place the entire Solid A in a test tube add water to it and shake. Use portions of the Mixture in steps **b**, **c** and **d**.	($^1/_2$mk)	Solid insoluble in water Coloured ions absent
b. To the first portion. Add 2 drops of dilute HCI and place a glass rod dipped in lime water at the tip of the tube.	Particles are formed on the glass rod	(1mk)
c. To the second portion. Add drops of ammonia solution till excess	($^1/_2$mk)	Pb^{2+}, Mg^{2+} Ba^{2+}, AI^{3+} Absent.
d. To the third portion, dip a glass rod into the solution and place the rod into the hottest region of a non-luminous flame	A yellow flame is observed.	(1mk)

9. Hydrogen gas was passed over 4.64g of an oxide of iron in a combustion tube until there was no further change. The mass of the final substance was found to be 3.36g. Determine the empirical formula of the oxide. (Fe=56, O= 16). (3mks)

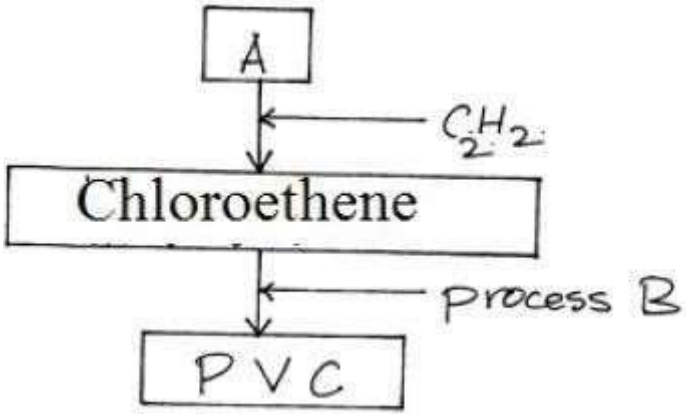
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10. Study the scheme below and answer questions that follow



a) Identify reagent A. (1mk)

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b) Name process B (1mk)

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c) What does PVC stand for? (1mk)

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11. The table below gives some properties of gases M and N

GASES	Density	Effect of $HCl_{(aq)}$	Effect of $KOH_{(aq)}$
M	Lighter than air	Reacts to form a salt	dissolves without reacting
N	Heavier than air	Not affected	Not affected

a) Describe how one would obtain a sample of gas N from a mixture of gases **M** and **N**

(2mks)

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b) Name two neutral oxides (1mk)

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12. When concentrated sodium chloride was electrolysed for a long time. Two gases were obtained at the anode;

i. Name the two gases (1mk)

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ii. Explain why the gases were obtained. (2mks)

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13. A student reacted Silver Nitrate and Barium Chloride solutions to prepare two salts.

i. Write an ionic equation for the reaction that took place. (1mk)

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ii. Describe how a sample of Lead (II) Chloride and Silver Chloride can be differentiated in the laboratory. (2mks)

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14. 400cm^3 of Nitrogen gas diffuses through a porous plug in 70 seconds. How long would it 200cm^3 of Carbon (IV) oxide to diffuse through the same porous pot? (3mks)
(C=12, O=16, N=14)

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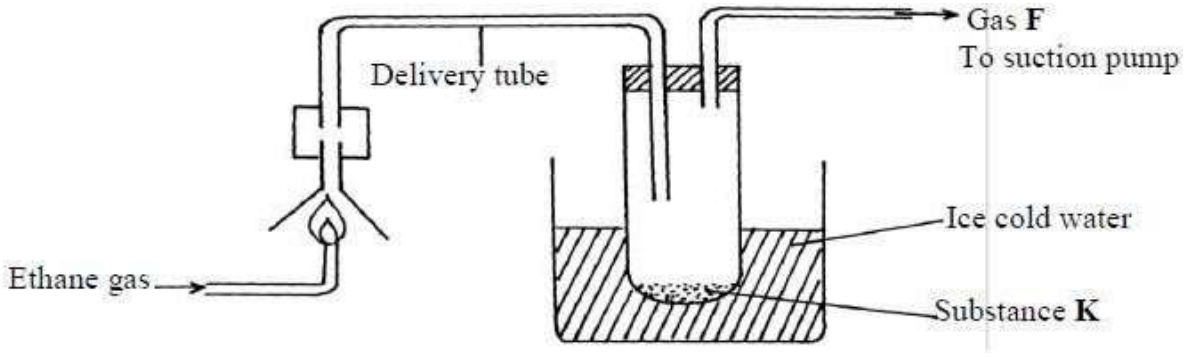
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15. The diagram below shows the combustion of ethane gas. Study it and answer the questions that follow:



a) Identify substance K (1mk)

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b) Write an equation for the complete combustion of ethane gas. (1mk)

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c) The pH of substance K is found to be less than 7. Explain this observation (1mk)

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16. Aluminium is obtained from its ore, with formula $Al_2O_3.2H_2O$. The ore is first heated and refined to obtain pure aluminium oxide (Al_2O_3). The oxide is then electrolysed to get Aluminium and Oxygen gas using carbon electrodes.

a) Write the equation that takes place at the anode (1mk)

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b) What would be the importance of heating the ore before it is electrolysed (1mk)

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c) Explain why Aluminium is used for making cooking pans yet it is a reactive metal

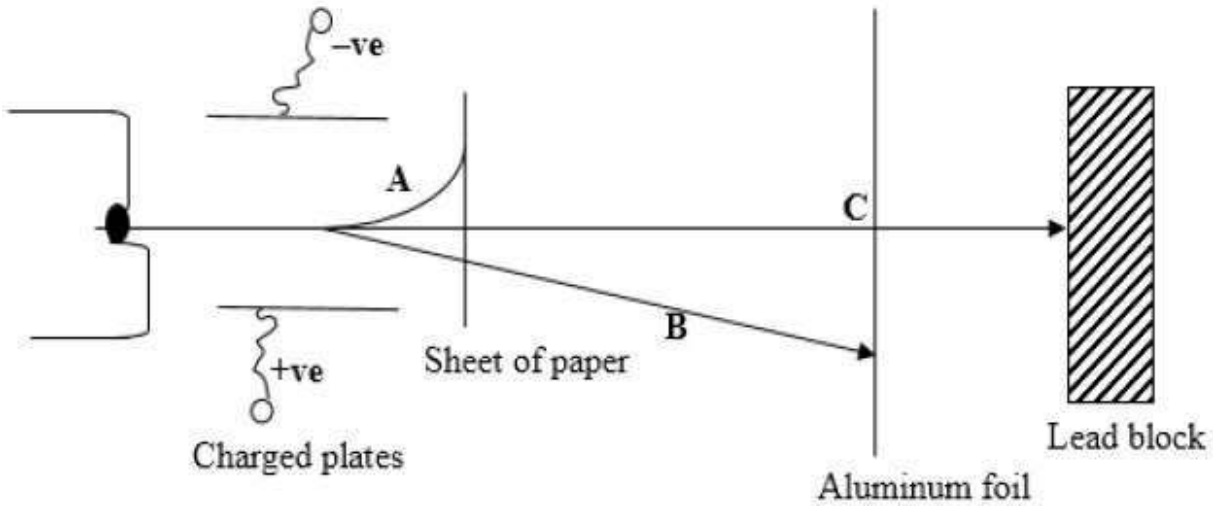
(1mk)

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17. Use the diagram below to answer the questions that follow:



a) Identify the radiations. (1mk)

A…….

B…….

b) The table below gives the rate of decay for a sample of radioactive element **K**. Study

it and answer the question that follows:

Mass (kg)	Time(Days)
72	0
9	120

Determine the half-life of element K. (2mks)

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18. a) Draw a diagram to show how an iron ring can be electroplated with pure silver.

(2mks)

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b) Give two reasons why electroplating is necessary. (1mk)

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19. Use the following information to answer the questions that follow.

$CO_{(g)} + \frac{1}{2} O_{2(g)} \longrightarrow CO_{2(g)}$ $\Delta H = -283kJmol^{-}$

$H_{2(g)} + \frac{1}{2} O_{2(g)} \longrightarrow H_2O_{(l)}$ $\Delta H = -286kJmol^{-}$

$CH_3OH_{(l)} + 3/2O_{2(g)} \longrightarrow CO_{2(g)} + 2H_2O_{(l)}$ $\Delta H = -715kJmol^{-}$

a) Draw an energy cycle diagram and label the various heat changes. (2mks)

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b) Use the energy circle above to calculate heat of formation of methanol. (1mk)

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20. During an electrolysis, a current of 2 amperes was passed through copper (II) sulphate

solution for 4 hours. Calculate the volume of the gas produced at the anode. **(1 F= 96500C, MGV = 24000cm^3).** (3mks)

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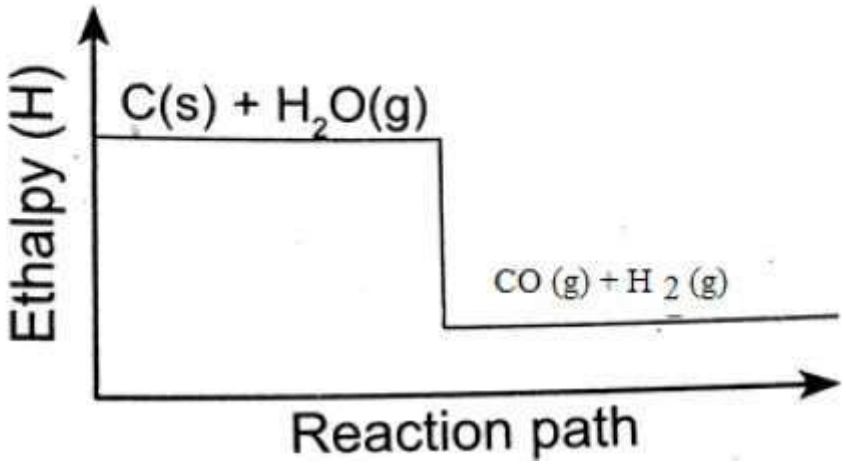
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21. The diagram below is an energy level graph for reactants and products during a chemical reaction.

$$C\,(s) + H_2O\,(g) \rightleftharpoons CO\,(g) + H_2\,(g)$$



a) What would be the effect on the position of equilibrium if temperature is increased? Explain. ($1^1/_2$mk)

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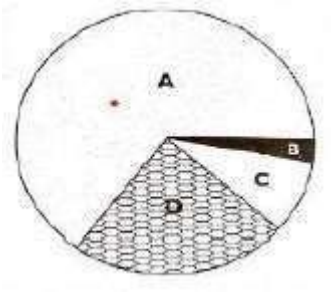
b) How would a decrease in pressure affect the amount of hydrogen gas? ($1^1/_2$mk)

……

……

……

22. The chart below shows the composition of gases. Use it to answer the questions that follow.



a) Which gas is used to preserve semen? Explain. (2mks)

……

……

……

b) The level of a gas in the pie chart above increases in the atmosphere due to the use of fossil fuels such as diesel and petrol and this leads to global warming. Identify the gas. (1mk)

……

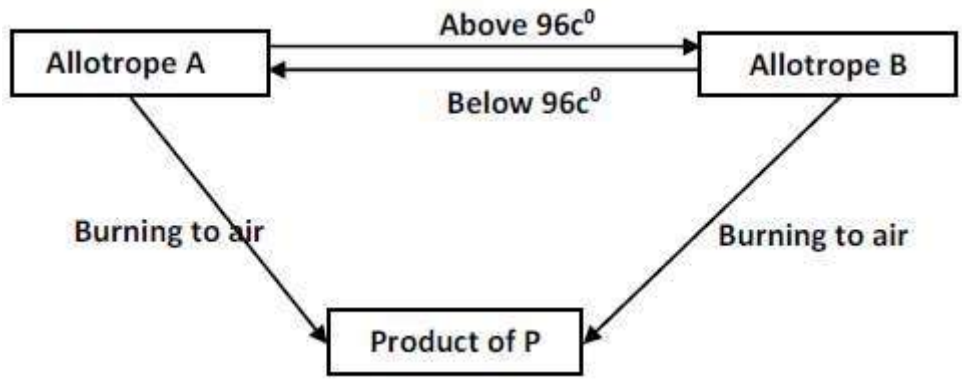
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23. For each of the following experiments, give the observations, and the type of change that occurs (Physical or chemical) (3mks)

Experiment	Observation	Type of change
A few drops of concentrated sulphuric acid added to small amounts of sugar		
A few crystals of Iodine are heated gently in a test tube		
A few crystals of copper (II) Nitrate are heated strongly in a test tube.		

24. The flow chart below shows some properties of two allotropes of element P



a) Name allotrope A (1mk)

……

……

b) Write an equation to show the formation of the product of P (1mk)

……

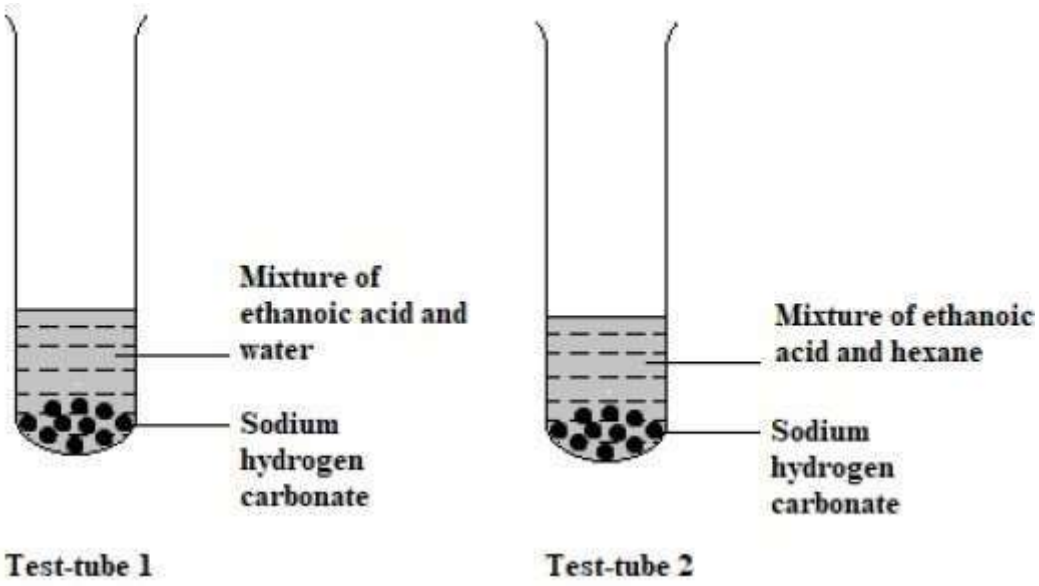
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c) What does 96^0 C (1mk)

……

……

25. In an experiment, a student put equal volumes of mixtures of ethanoic acid in water and ethanoic acid in hexane in two test tubes as shown below. In each test tube, equal amounts of solid sodium hydrogen carbonate were added.



a) State the observation which was made in each test-tube (1mk)

Test tube 1

……

……

Test tube 2

……

……

b) Explain the observations in (a) above (2mks)

……

……

……

26. An experiment was carried out to determine the solubility of potassium nitrate.

The following results were obtained.

Mass of evaporating dish	**= 15.13g**
Mass of evaporating dish and solution	**= 36.51g**
Mass of evaporating dish and salt	**= 19.41g**

Use the information above to calculate the solubility of potassium nitrate. (3mks)

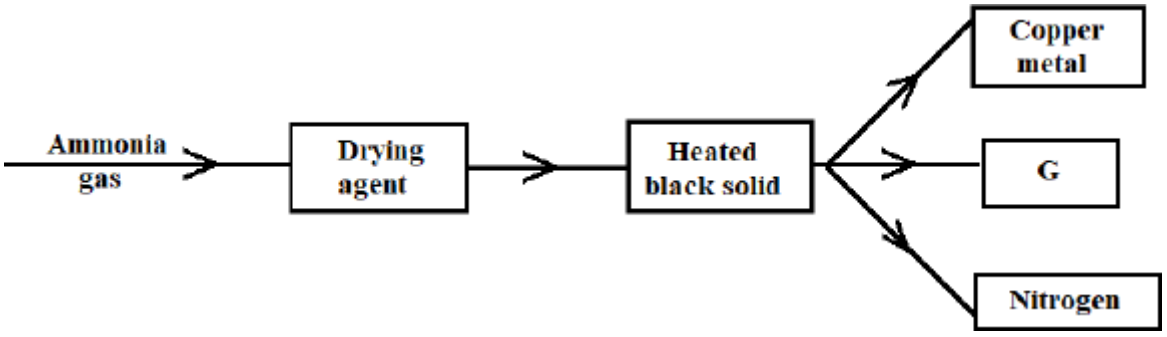
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27. Study the flow chart below and answer the questions that follow.



a) Name a suitable drying agent for ammonia. (1mk)

……

……

b) Describe one chemical test for ammonia. (1mk)

……

……

……

c) Name G. (1mk)

……

……

THIS IS THE LAST PRINTED PAGE.

Name……... Adm No……

Class.....Index

No…….. School…….. Sign

……..

DATE ……..

565/2

BUSINESS
STUDIES PAPER
2

TIME: 2 HOURS 30 MINS

EXTRA-COUNTY MOCK 2026

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

Instruction to candidates

a) *Write your name, admission number and stream in the spaces provided above*
b) *This paper consists of **SIX** questions.*
c) *Answer any **FIVE** questions.*
d) *All answers should be written in the answer booklet provided.*
e) *This paper consists of 3 printed pages.*
f) *Candidates should check the question paper to ascertain that all pages are printed as indicated and that no questions are missing.*
g) *Candidates should answer the questions in English.*

For examiners use only

Questions.	Candidate's score.	
1	a	
	b	
2	a	
	b	
3	a	
	b	
4	a	

	b	
5	a	
	b	
6	a	
	b	
TOTAL		

1. **(a).** Explain 5 characteristics of economic resources (10 marks)

   (b). High unemployment in Kenya is the main challenge the Kenya Kwanza government is faced with. Explain 5 possible solution to the unemployment problem in Kenya. (10marks)

2. **(a).** Explain 5 disadvantages of Newspapers as an advertising media. (10mrks)

   (b). Explain five ways in which international trade may contribute to the development of a country. (10marks)

3. **(a).** Explain 5 benefits of a business plan to the entrepreneur. (10marks)

   (b). The following trial balance was extracted from the books of Kamau Enterprise on 31st December 2020.

Kamau Enterprise
Trail Balance

As at 31st Dec 2020

Details	Dr (sh)	Cr (sh)
Capital		800,000
Opening stock	200,000	
Sales and purchases	680,000	1,200,000
Returns	50,000	80,000
Discounts	80,000	45,000
Carriage inwards	42,000	
Debtors and creditors	200,000	105,000
Motor vehicle	750,000	
Furniture	250,000	
Rent	50,000	60,000
Bank overdraft		42,000
Carriage outwards	30,000	
TOTAL	**2,332,000**	**2,332,000**

Additional information: closing stock 100,000.
Required: Prepare Kamau Enterprise Trading, profit and Loss account for the year ended 31st Dec 2020. (10marks)

4. **(a).** Highlight 5 differences between a private Limited company and a public Limited company. (10marks)

   (b). Explain 5 factors that may lead to an increase in demand for tea in Kenya. (10 marks)

5. **(a).** Explain 5 external business environment that may affect business operation. (10marks)

(b). Principles of insurance are guidelines that govern the relationship between the insurance company and the insured. Explain 5 such principles. (10marks)

6. (a). Explain 5 features that make Kenya shillings qualify as good money. (10marks)

(b). Record the following transactions in the respective ledger accounts (10marks)

2003: April 1. Kemunto started a business with sh. 80,000.

April 2. Bought stationary for sh. 40 and paid in cash.

April 3. Opened a bank account and deposited sh. 50,000 from the cash till.

April 4. Bought a motorcycle worth 250,000 and paid by cheque.

April 5. Bought postage stamp for sh.60 in cash.

Name……... Adm No…… Class…….

Index No…….. School…….. Sign ……..

DATE ……..

565/1

BUSINESS STUDIES

Paper 1

Time 2 Hours

EXTRA-COUNTY MOCK 2026

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

Instructions

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

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

16	17	18	19	20	21	22	23	24	25

TOTAL

1. State the type of utility created by each of the following production activities: (4mks)

Activity	Type of Utility
i. Transferring goods to where they are required	
ii. Changing the position of commodity from the period of production to the consumption	
iii. Transferring ownership of goods from one person to another.	
iv. Changing a commodity from raw materials to finished goods.	

2. Outline FOUR factors that may limit the use of containers as a method of transporting goods in developing countries. (4mks)

i) .....

.....

ii) .....

.....

iii) .....

.....

iv) .....

.....

3. State FOUR effects of a shift in supply curve to the right while the demand curve is held constant. (3mks)

i) .....

.....

ii) .....

.....

iii) .....

.....

iv) .....

.....

4. The following balances were extracted from the books of Kodiaga Traders on 31st December, 2022.

Fixed Assets	3,000,000.00
Stock	520,000.00
Creditors	610,000.00
Debtors	450,000.00
Bank Overdraft	310,000.00
Cash in hand	45,000.00

During the month of January, 2023, the following transactions took place:
Jan 01: Bought stock on credit worth Sh. 55,000.00

Jan 15: Sold goods worth Sh. 75,000.00 for Sh. 90,000.00 cash

Prepare a balance sheet as at 31st January, 2023. (4mks)

5. Highlight FOUR situations that indicate existence of a business opportunity. (4mks)

i) .....

.....

ii) .....

.....

iii) .....

.....

iv) .....

……

6. Given below are books of original entry, state the source documents used to prepare each of the books. (4mks)

BOOK OF ORIGINAL ENTRY	SOURCE DOCUMENT
i) Sales return journal	_____
ii) Cash book	_____
iii) Purchase journal	_____
iv) Sale journal	_____

7. State FOUR benefits that may be realized by a country as a result of government policy to relocate firms to rural areas. (4mks)

i) ……

……..……..

ii) ……

……..……..

iii) ……

……..……..

iv) ……

……..

8. Name FOUR accounting documents that are used in home trade. (4mks)

i) ……

……..……..

ii) ……

……..……..

iii) ……

……..……..

iv) ……

……..

9. Outline FOUR ways in which warehousing facilitates trade. (4mks)

i) ……

……

ii) ……

……

iii) ……

……

iv) ……

……

10. In the table below, name the type of error made in each of the following transactions.(4mks)

TRANSACTION	TYPE OF ERROR
i) A debtor for Sh. 250,000.00 settled her account by cheque and was never recorded	_____
ii) An invoice of Sh. 750,000.00 received from Yala traders was recorded in the effected account as Sh. 570,000.00	
iii) Sale of old furniture was recorded in sales account	
iv) Payment of Sh. 4,000 to Mumias was recorded in Mumia's Account	

11. Outline FOUR reasons why an increase in per capita income may not necessarily lead to a rise in the standard of living of the citizen. (4mks)

i) ……

……

ii) ……

……

iii) ……

……

iv) ……

……

12. Highlight FOUR ways in which the government may increase the amount of money in circulation.

(4mks)

i) ……

……

ii) ……

……

iii) ……

……

iv) ……

……

13. Machuki is a renowned coffee farmer. Give him FOUR reasons why he should join a producer cooperative society. (4mks)

i) ……

……

ii) ……

……

iii) ……

……

iv) ……

……

14]State FOUR internal environments that may contribute to the success of a business enterprise.

…(4mks)

v) ……

……

vi) ……

……

vii)……

……

viii) ……

……

14. Outline FOUR circumstances under which a country may decide to conduct her trade with other countries. (4mks)

i) ……

……

ii) ……

……

iii) ……

……

iv) ……

……

15. State FOUR factors that are likely to contribute to unemployment in Kenya. (4mks)

i) ……

……

ii) ……

……

iii) ……

……

iv) ……

……

16. Name the type of direct tax described in the statement given below:

STATEMENT	TYPE OF TAX
i) A tax levied on savings like dividend held by individuals	_____
ii) A tax charged when an asset is sold at a price higher than the book value	_____
iii) A tax charged on transfer or land from one person to another	_____
iv) A tax charged on an individual's income which may be from salary	_____

17. State the use of each of the following office equipment (4mks)

i) Guillotine……

ii) Franking machine ……..

iii) Stapler ……

iv) Cash register……

18. Outline FOUR reasons that may influence an individual to sell her imported produce directly to consumers. (4mks)

i) ……

……

ii) ……

……

iii) ……

……

iv) ……

……

19. The following is a format of the credit side of a three-column cash-book.

CR

Date		A	B	C	D

Name the columns marked A, B, C and D

i) A ……

ii) B ……

iii) C ……

iv) D ……

20. State FOUR ways in which the government may involve itself in commercial activities. (4mks)

i) ……

……..

ii) ……

……

iii) ……

……

iv) ……

……

21. Highlight FOUR ethical issues in product promotion. (4mks)

i) ……

……..

ii) ……

……

iii) ……

……

iv) ……

……

22. Outline FOUR factors that may limit exploitation of natural economic resources in a country.(4mks)

i) ……

……..

ii) ……

……

iii) ……

……

iv) ……

……

23. State FOUR procedures of making an insurance claim. (4mks)

i) ……

……

ii) ……

……

iii) ……

……

iv) ……

……

24. Outline FOUR Circumstances under which a monopolist would survive (4mks)

i) ……

……

ii) ……

……

iii) ……

……

iv) ……

……

THE KENYA NATIONAL EXAMINATIONS COUNCIL

Kenya Certificate Of Secondary Education

231/3 INSTRUCTIONS

BIOLOGY PRACTICAL

INSTRUCTIONS TO SCHOOLS

The information contained in this paper is to enable the head of the school and the teacher in charge of biology to make adequate preparations for this term's Biology Practical examination.

Besides other laboratory apparatus and fittings, each candidate will require the following:

- Glucose solution labeled **solution S1**
- Distilled water labeled **Solution S2**
- Starch solution labeled **Solution S3**
- Benedict's solution in a beaker
- Iodine solution in a beaker
- A test tube rack
- 6 clean test tubes
- 10ml measuring cylinder
- Bunsen burner
- A dropper
- *Tradescantia spp* with at least a flower labeled **specimen T**
- *A* scalpel
- A handlens

Name……... **Adm No**…… **Class**…….

Index No…….. **School**…….. **Sign** ……..

DATE ……..

231/2

BIOLOGY
PAPER 2

TIME: 2 HOURS

EXTRA-COUNTY MOCKS 2026

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

Instructions to the candidates

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

SECTION	QUESTION	MAX SCORE	CANDIDATES SCORE
A	1 2 3 4 5	8 8 8 8 8	
B	6 7 8	20 20 20	
	TOTAL	**100**	

SECTION A: 40MKS

ANSWER ALL QUESTION IN THE PROVIDED SPACES

1. State the functions of the following parts of the light microscope.

   a) i) Condenser (1 mk)

   ii) Eye piece lens. (1 mk)

   b) Give three advantages of using a cover lip when preparing a specimen for observation under a light microscope. (3mks)

   ……

   ……

   ……

   c) Explain how you would manipulate the low power objective lens to focus a specimen for observation under a light microscope. (3mks

   ……

   ……

   ……

   ……

   ……

2. In certain breeding experiments black rabbits were cross with pure breeding white rabbits and all the offspring had a coat with black and white patches.

a) Using letter B to represent the gene for black coat and letter H for white coat colour, work out the F2 genotypic ratio. (5mks)

b) State the phenotypic ratio of F2. (1mk)

c) i) Name the term used when two alleles in a heterozygous state are fully expressed phenotypically in an organism. (1mk)

……

ii) Give an example of a trait in human beings where the condition whose term is named in (c) (i) above expresses itself. (1mks)

……

3. a) State four characteristics of fruits dispersed by animals. (4mks)

……

……

……

……

……

b) State two roles of each of the following hormones in menstruation.

i) Luteinising hormone. (2mks)

……

……

ii) Oxytocin (2mks)

……

……

4. a) Explain what happens when a wilting young plant is well watered. (3mks).

……

……

……

……

b) Name a support tissue in plants thickened with:

i) Cellulose (1mk)

……

ii) Lignin (1mk)

……

Visit www.mwalimuresources.co.ke 4 Call/WhatsApp 0735649658/0726426491

c) Give three functions of pectoral and pelvic fins in a tilapia fish in Lake Victoria. (3mks)

5.

a) i) Explain the changes that take place in the pupil and lens of a human eye when a person moves from a brightly lit room to a dark room. (3mks)

……

……

……

……

……

ii) What is the significance of the changes explained in (a)(i) above? (1mk)

……

b) How is the human eye nourished? (2mks)

……

……

……

c) Explain why images that form on the blind spot are not perceived. (2mks)

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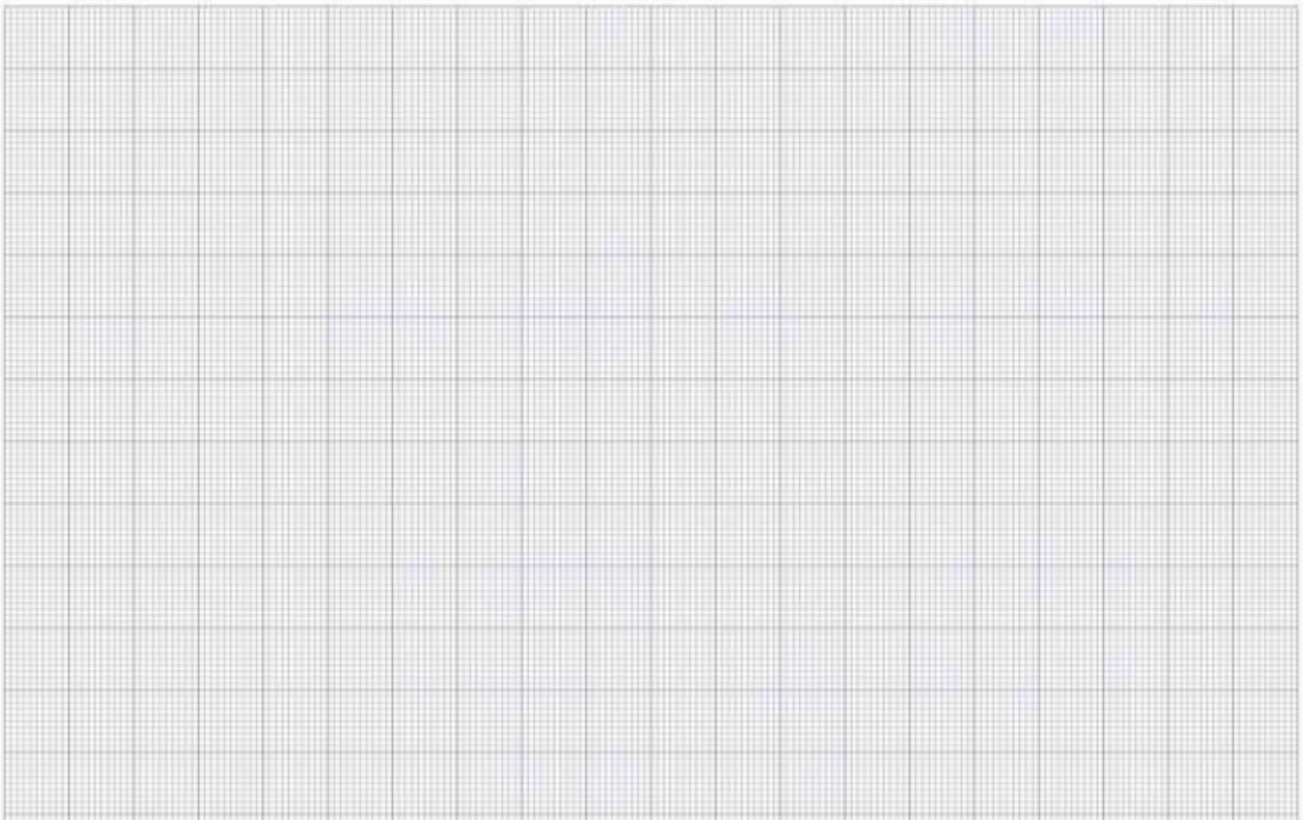
SECTION B (40mks)

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

6. A hungry person had after which the cultivation of glucose in the blood was determined. This was measured hourly as blood passed through the hepatic portal vein and the iliac vein in the leg. The results are shown in the table below.

Time (hrs)	**Concentration of glucose (mg/100ml) in**	
	Hepatic portal vein	**Iliac vein**
0	85	85
1	85	85
2	140	125
3	130	110
4	110	90
5	90	90
6	90	90
7	90	90

a) Using same axes, draw graphs of concentration of glucose in hepatic portal vein and the iliac vein against time. (7mks).



b) From your graph, determine the glucose level in the two blood vessels at 31/2hrs during the experiment. (2mks)

c) Account for the concentration of glucose in the hepatic portal vein from;

i. 0 – 1 hour (2mks)

……

……

……

ii. 1 – 2 hours (3mk)

……

……

……

iii. 2 – 4 hours (3mks)

……

……

……

iv. 5 – 7 hours (2mks)

……

……

……

d) Account for the difference in the concentration of glucose in hepatic portal vein and the iliac vein between 2 and 4 hours. (1mk)

……

……

……

7. Describe the process by which free nitrogen in the air is made available to carnivores in the ecosystem. (20mks)

8. Explain how environmental factors affect the rate of transpiration in flowering plants. (20mks)

Name……... **Adm No**…… **Class**…….

Index No…….. **School**…….. **Sign** ……..

DATE ……..

231/1

BIOLOGY
PAPER 1

TIME: 2 HOURS

ETRA-COUNTY MOCKS 2026

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

INSTRUCTIONS TO CANDIDATES:

- *Write your **name** and **index number** in the spaces provided above*
- ***Sign** and **write** the date of examination in the spaces provided above.*
- *Answer **all** questions in the spaces provided on the question paper.*

FOR EXAMINER'S USE ONLY:

QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
1- 25	80	

1. Give two reasons why the pressure of blood is greater in the arteries than in the veins of mammals. (2mks)

   .....

   .....

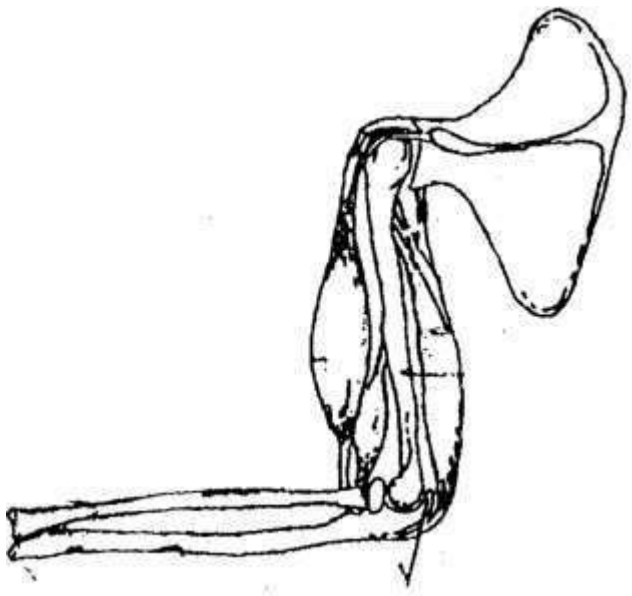
2. After four months of pregnancy, the ovaries of a woman can be removed without terminating pregnancy. However, during the first four months of pregnancy, the ovaries must remain intact if pregnancy is to be maintained. Explain these observations.

   (2mks)

   .....

   .....

3. The diagram below shows the arrangement of bones and muscles in a human arm



K

(a) Name the part of the bone labeled **K**. (1mk)

.....

(b) How do the muscles work to extend the arm. (1mk)

.....

4. Industrial wastes may contain metallic pollutants. State how such pollutants may indirectly reach and accumulate in the human body if the wastes were dumped into rivers. (3mks)

.....

.....

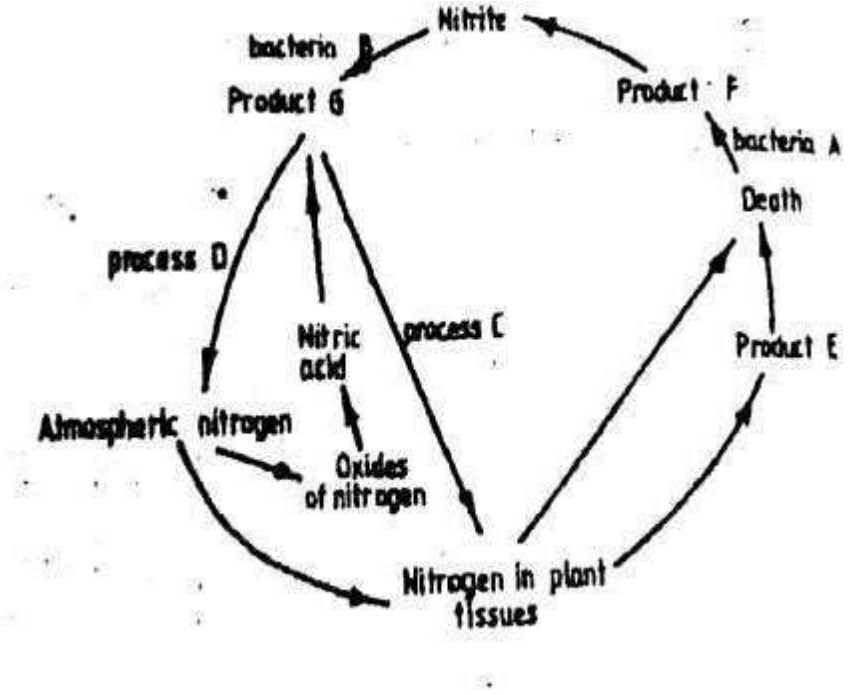
.....

5. Explain how drooping of leaves on a hot sunny day is advantageous to a plant. (2mks)

.....

.....

6. The figure below is diagram of the nitrogen cycle



(a) Identify the bacteria A (1mk)

.....

(b) Nitrogen in the atmosphere cannot be directly utilized by plants. State two ways by which this nitrogen is made available for plant use. (2mks)

.....

.....

7. Explain why several axillary buds sprout when a terminal bud in a young tree is removed. (2mks)

.....

.....

8. A rhinoceros in a national park was found to be infected with ticks. State the trophic level occupied by the,

(a) Rhinoceros (1mk)

.....

(b) Ticks (1mk)

.....

9. Some millet seeds were soaked in water for two days. They were then broken into small pieces and placed on the surface of agar.
The petri-dish was covered and kept in a warm place. After two days, it was discovered that starch was absent in the agar.

(a) Suggest how the test for starch in the agar block was conducted. (2mks)

.....

.....

(b) Why was it necessary to soak the seeds first. (2mks)

.....

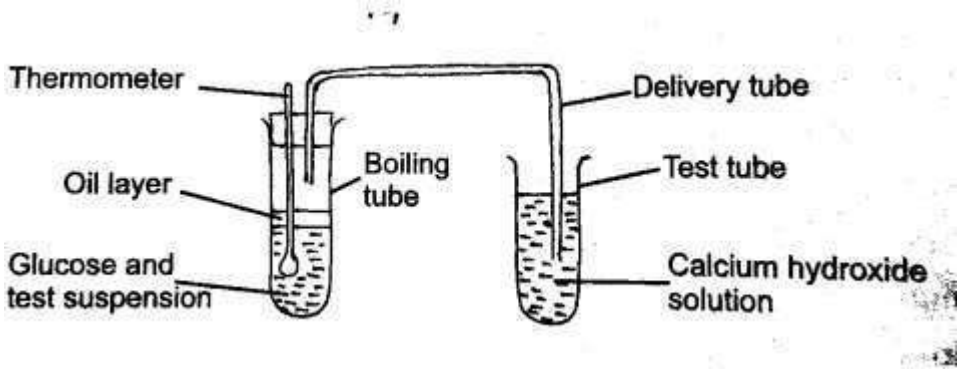
.....

(c) What was the importance of covering the petri-dish? (1mk)

.....

.....

10. Fig. 8.3 below was used by a group of form 2 students to investigate a certain physiological process.



(a) What was the purpose of the following in the set up:

(i) Oil layer? (1mk)

.....

. (ii) Calcium hydroxide solution? (1mk)

.....

.....

(b) What effect would each of the following treatments have on the rate of reaction taking place in the boiling tube?

(i) Adding metabolic poison such as sodium cyanide to the suspension. (1mk)

.....

(ii) Adding more yeast? (1mk)

.....

11. A piece of fresh liver was added to some small amount of hydrogen peroxide in attest tube. Effervescence occurred in the tests tube and froth formed.

(a) What would be observed in the test tube if boiled piece of liver is used instead? Give a reason for your answer. (1mk)

Obsevatition.....

Reason.....

(b) What is the active ingredient of liver which brings about the reaction above? (1mk)

.....

12. A flower was found to have inconspicuous petals, long feathery stigma and small light pollen grains.

(a) What is the likely agent of pollination of the flower? (1mk)

.....

(b) What is the significance of small light pollen grains? (1mk)

.....

13. (a) What is apical dominance? (2mks

.....

(b) State the significance of pruning tea plants. (1mk)

.....

(c) Identify two factors that determine viability of a seed. (2mks)

.....

.....

14. Give two morphological features that can be used to separate a housefly, a millipede and a tick into their respective classes. (2mks)

.....

.....

15 (a) State two causes of mutation (2mks)

.....

....

(b) Define the following terms.

(i) Hybrid Vigour (2mks)

.....

(ii) Polypoloidy (1mk)

.....

16. All insects are believed to have arisen from a common ancestor. However, modern insects differ widely in a variety of ways. For example, their mouthparts are adapted for different modes of feeding, e.g. biting, piercing, and sucking.

(a) What kind of evolution is this? (1mk)

....

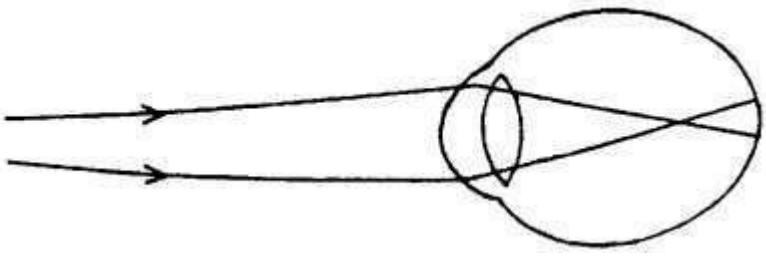
(b) Explain how the differences in the mouthparts came about. (3mks)

.....

. .....

.....

17. The diagram below illustrates a certain eye defect



(a) Name the defect (1mk)

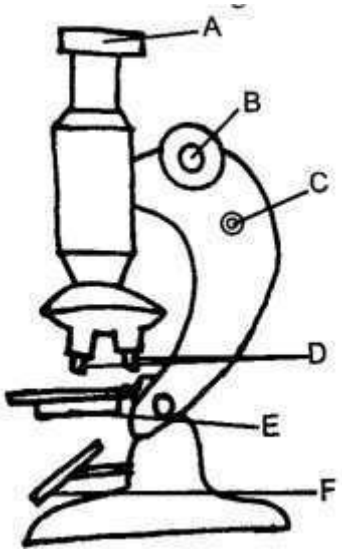
.....

(b) Explain how the defect named in (a) above can be corrected. (3mks)

.....

.....

18. The diagram below shows some components of a light microscope.



(a) Name the parts labeled A and B (1mk)

.....

(b) (i) A student was viewing a slide preparation of a cheek cell under high power of a microscope. The features of the cell were blurred. Which one of the labelled parts of the microscope would the student use to obtain a sharper outline of the features?

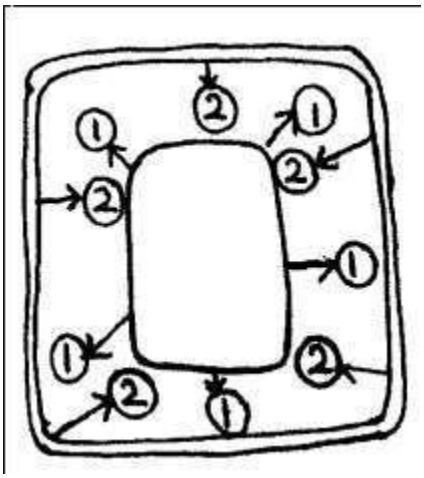
(1mk)

.....

Give the formula used to calculate magnification in a light microscope. (1mk)

.....

19. The diagram below resents a fully turgid plant cell.



(a) Which arrows represent:

(i) Turgor Pressure (1mk)

.....

(ii) Wall pressure. (1mk)

.....

(b) State the roles placed by osmosis in plant (2mks)

.....

.....

20. (a) Treating a cell undergoing interphase stage of cell division with a metabolic poison stops cell division. Explain. (2mks)

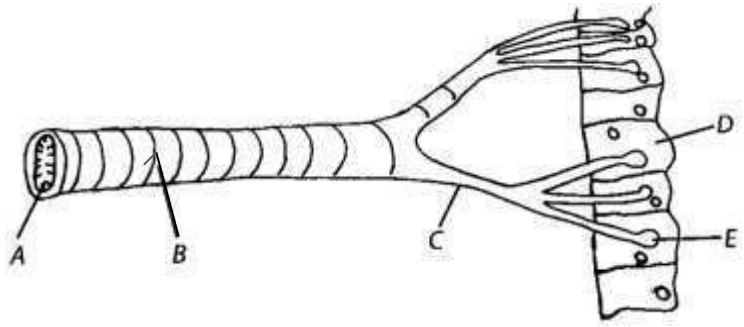
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(b).What is the significance of meiosis to living organisms? (1mk)

.....

21. The diagram below represents part of the gaseous exchange site of a terrestrial insect. Use it to answer the question that follow:



(a) Name the parts labeled

A .....

B.....

(b) State the significance of part labeled B. (1mk)

.....

(c) Name the fluid which fills the cavity of structure labeled E and state its significance. (1mk)

.....

22. The equation below summarizes a certain chemical process which takes place in a certain region of the alimentary canal.

Sucrose + Enzyme A ⟶ Glucose + Product B

(a) Name the process summarized by the above equation. (1mk)

.....

(b) Name the;

(i) Enzyme A (1mk)

.....

(ii) Product B (1mk)

.....

(c) What is the name of the juice which contains enzyme A in human beings (1mk)

.....

(d) Name the region of the alimentary canal of man where the above process occurs (1mk)

.....

23. State the function of each of the following structure in a female mammal.

(i) Placenta (1m

.....

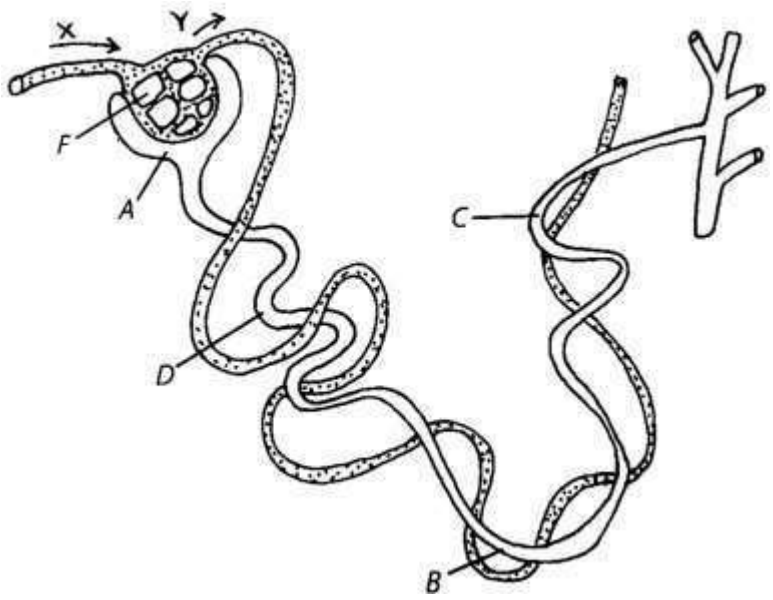
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(ii) Amniotic fluid (1mk)

.....

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24. The figure below represents the mammalian nephron.



(a) Name the parts labeled A and B (1mk)

.....

(b) State the differences between the following:

(i) Blood in X and Y (1mk)

.....

(ii) Composition of the content of F and D (1mk)

.....

(iii) What would be the effect of shortening the part marked B? (1mk)

.....

25. In an experiment, Drosophila melanogaster (fruit fly) with broad abdomen were crossed with those with narrow abdomen. All the offspring's (F1 generation) from the crosses had broad abdomens. Using letter, A to denote the gene for broad abdomen.

(a) (i) Give the genotypes of the parent. (2mks)

.....

.....

(iii) If 150 fruit flies with broad abdomen in the second filia generation (F2), how many flies had broad abdomen in the same generation? Show your working.
(2mks)

.....

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(c) In a related experiment, fruit flies with broad abdomen were crossed with fruit flies with narrow abdomen. The offspring with broad abdomen and the ones with narrow abdomen were in the ratio of 1:1.

(i) What is the genotype of the parent with broad abdomen? (1mk)

.....

(ii) What is biological significance of the experiment? (1mk)

.....

EXTRA-COUNTY MOCK 2026

SECTION A (3OMarks)

(Answer all questions from this section)

1. State two functions of a dip tank shelter in a plunge dip (1mk)

.....

.....

.....

2. . Give four factors that influence amount of water taken by an animal (2mks)

.....

.....

.....

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3. . State four examples of diseases caused by bacteria in livestock (2mks)

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4. . State four factors considered when selecting eggs for marketing (2mks)

.....

.....

.....

.....

5. . Name four beef cattle breeds (2mks)

.....

.....

.....

.....

6. .State the colour of each of the following dairy cattle breeds (2mks)

Fresian.....

Ayrshire.....

7. .State four advantages of inbreeding system (2mks)

.....

.....

.....

.....

8.State four reasons for castration in livestock production (2mks)

.....

.....

.....

.....

9..List down four harmful effects of ticks in livestock (2mks)

.....

.....

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.....

10.Give four signs of heat in cattle (2mks)

.....

.....

.....

.....

11. Name two types of roughages (1mk)

.....

.....

.....

.....

12 State four reasons for maintaining farm tools and equipments (2mks)

.....

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13 .State four reasons why a calf should be fed on colostrum (2mks)

.....

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14 .State four functions of vitamins in livestock (2mks)

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15 .Name four systems of a tractor engine (2mks)

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16 .List four methods used in preserving fish (2mks)

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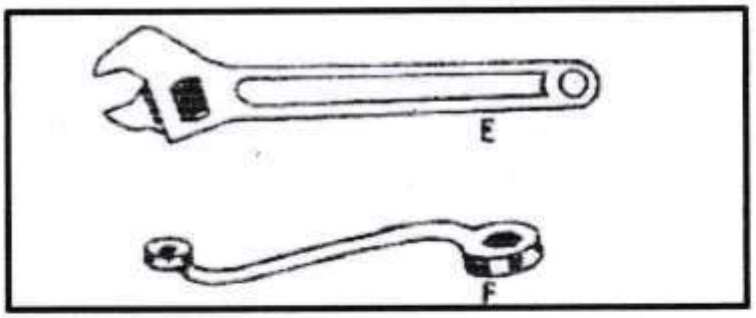
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SECTION B (20Marks)

(Answer all the questions from this section)

17.A dairy farmer is required to prepare 100kgs of dairy meal containing 20%DCP(Digestible crude protein).using the Pearson's square method ,calculate the quantity of soya beans 40% DCP and rice 16% DCP the farmer requires for the dairy meal.

18. The following diagrams illustrate some workshop tools. Study them carefully and answer the question that follows.



a) Identify the tools labeled E and F (2mks)

E .....

F .....

b)List any **Two** structural qualities of an egg to be incubated (2mks)

.....

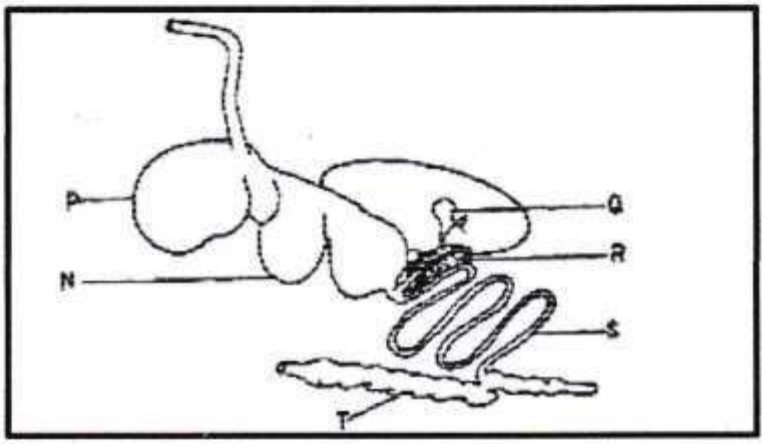
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c)Give functions of part labeled E in a fertilized egg (1mk)

.....

20) a)The diagram below shows the parts of the digestive system of a cattle. Study it and answer the questions that follow.



a)Name the parts labeled N,P,R and Q (2mks)

N.....

P.....

R.....

Q

b) List **three** microbial activities that take place in part labeled P. (3mks)

.....

.....

.....

SECTION C (40MARKS)

(Answer any two questions from this section.)

21.(a)Describe new cattle diseases under the following sub-headings

i. Causal organism (1mk)

ii. Symptoms of attack (6mks)

iii. Control measures (3mks)

b)state five signs of parturition in a cow (5mks)

c) Describe the uses of five equipment required for hand milking (5mks)

.22(a)Outline any **eight** control measure of ticks (8mks)

(b) Outline the daily maintenance practices that should be carried out on a farm tractor. (12mks)

23.(a)Describe the management practices carried out in rearing of day old chicks to eight weeks using a brooder.(10mks).

b)Describe five factors to considered when siting the fish pond in the farm (5mks)

c)State the functions of any parts of zero grazing unit in dairy farming (5mks)

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