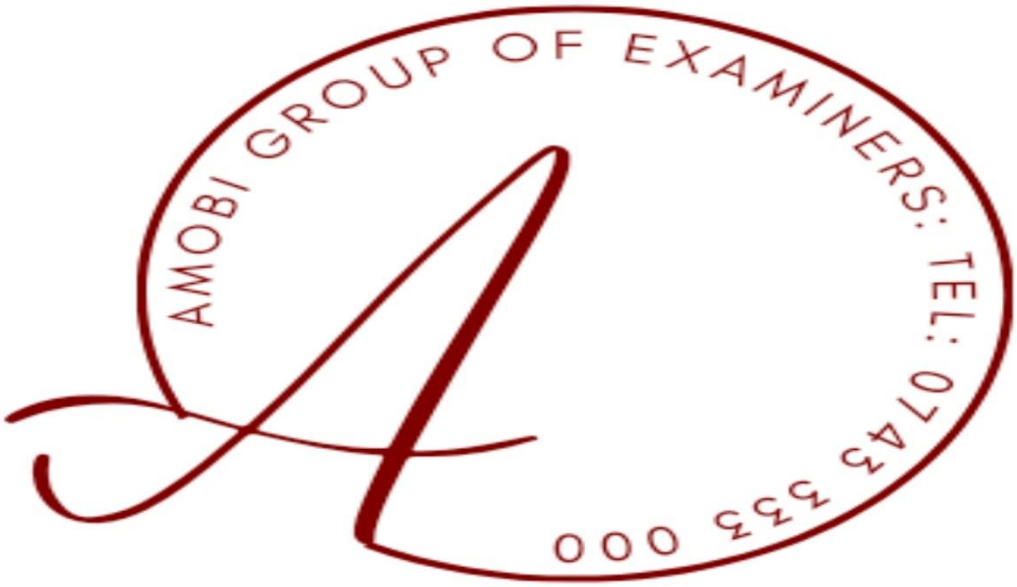
PROGRESSIVE STUDENTS FORM THREE HYBRID END TERM ONE SERIES 1 EXAMS

(ALL SUBJECTS TESTED)



PROGRESSIVE STUDENTS FORM THREE HYBRID END TERM 1 SERIES 1 EXAMS

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ORDER OF THE 14 SUBJECTS TESTED *(ALPHABETICALLY ARRANGED)*

1. **AGRICULTURE**
2. **BIOLOGY**
3. **BUSINESS STUDIES**
4. **CHEMISTRY**
5. **COMPUTER**
6. **C.R.E**
7. **ENGLISH**
8. **GEOGRAPHY**
9. **HISTORY**
10. **HOMESCIENCE**
11. **I.R.E**
12. **KISWAHILI**
13. **MATHS**
14. **PHYSCIS**

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PROGRESSIVE STUDENTS FORM 3 HYBRID END TERM 1 SERIES 1 EXAMS

NAME: ……..

SCHOOL: ……..

DATE:…….. ADM NO: …… SIGNATURE:……

AGRICULTURE (443)

FORM THREE (3)

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES

1. Write your name, stream and admission number in the spaces provided above.

2. This paper consists of three sections A, B and C. Answer all questions in sections A and B. Answer any two questions from section C.

3. Answers to all questions should be written in the spaces provided.

4. The paper has 10 printed pages and students should ascertain that all pages are printed.

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Section	***Questions***	***Maximum Score***	***Candidate's Score***
A	1 – 18	**30**	
B	19 – 23	**20**	
		20	
		20	
	TOTAL SCORE	**90**	

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SECTION A (30 Marks)

Answer ALL questions in the spaces provided

1. Outline **four** characteristics of Romney marsh sheep breed **(2mks)**

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2. State **two** disadvantages of using metal frames in construction of farm buildings **(1mk)**

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3. Name **four** materials that are collected by bees**.** **(2mks)**

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4. Give two reasons for the two month dry period the cow requires before parturition **(1mk)**

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5. Outline **four** reasons for swarming of bees **(2mks)**

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6. State **four** disadvantages of inbreeding in livestock. **(2mks)**

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7. State **four** ways of controlling tsetse flies **(2mks)**

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8. Give **four** advantages of live fences **(2mks)**

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9.List **four** factors that influence the pulse rate of an animal **(2mks)**

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10. State **four** qualities of colostrums which make it suitable for feeding newly born calf. **(2mks)**

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11. Name **two** dual purpose breeds of cattle **(1mk)**

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12. State **four** disadvantages of natural mating **(2mks)**

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13. State four reasons for steaming up in animal production. **(2mks)**

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14. Give two causes of high mortality in piglets. **(1mk)**

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15. List **four** factors associated to the animal that determines the amount of feed animals consumed **(2mks)**

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16. Give **two** reasons why drenching alone is not an effective method of controlling intestinal parasites in livestock. (**1mks)**

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17. Give **four** factors considered in siting a farm structure **(2mks)**

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18. Give **two** light breeds of chicken in poultry rearing **(1mk)**

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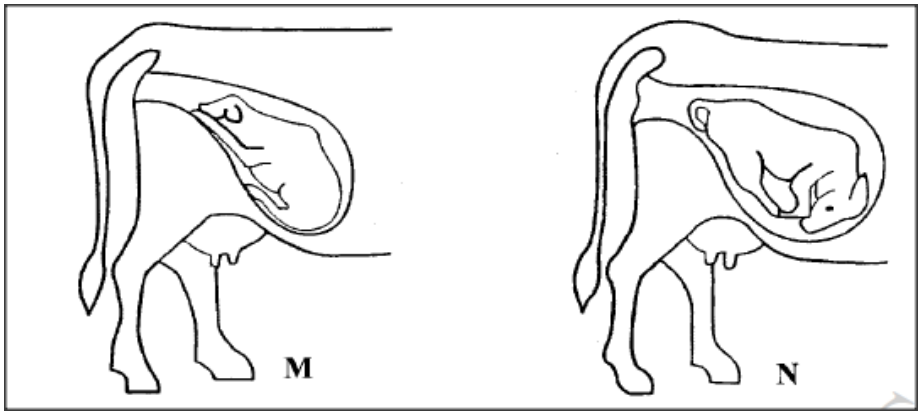
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SECTION B (20 Marks)

Answer all questions in this section in the spaces provided after every question

19. The illustration below show different presentation of foetus at the time of birth. Study the illustrations and answer questions that follow.



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(a) What diagram represents the normal position of a calf at birth **(1mk)**

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(b) What term is used to refer to position shown in diagram **N**? **(1mk)**

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(c) State two signs of parturition in cattle. **(2mks)**

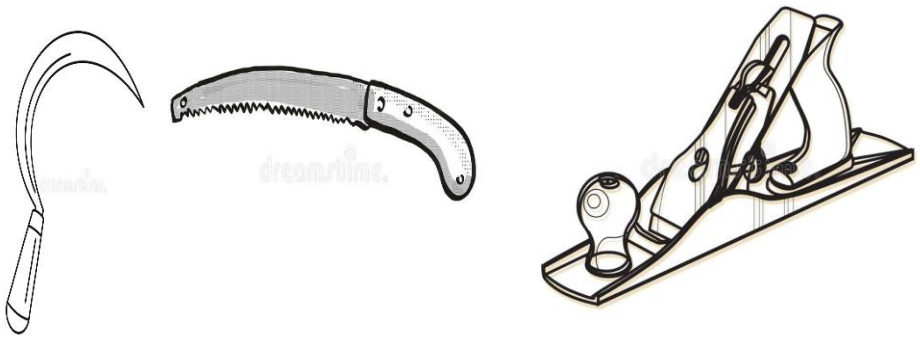
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20. Observe the tools A, B and C illustrated below then answer the questions that follow.



A **B** **C**

a) Name tools A, B and C and state the correct use of each tool**.** **(3mks)**

Tool	**Identity**	**Function**
A		
B		
C		

b) State **two** maintenance practices that should be carried out to ensure that tool C is in a good working condition. **(2mks)**

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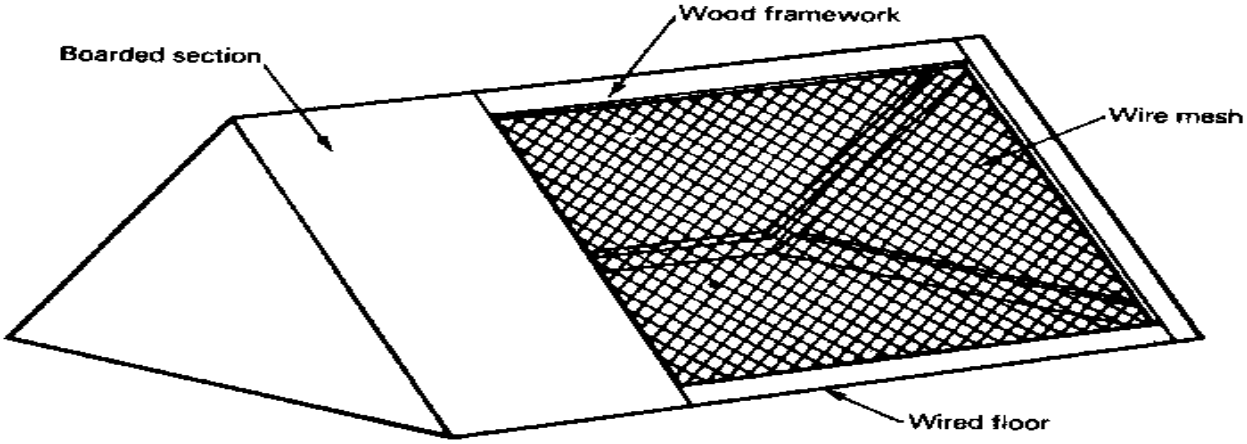
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21. The diagram below represents a poultry keeping structure.



(i) Identify the structure……..... **(1mk)**

ii) State the use of wire mesh…… **(1mk)**

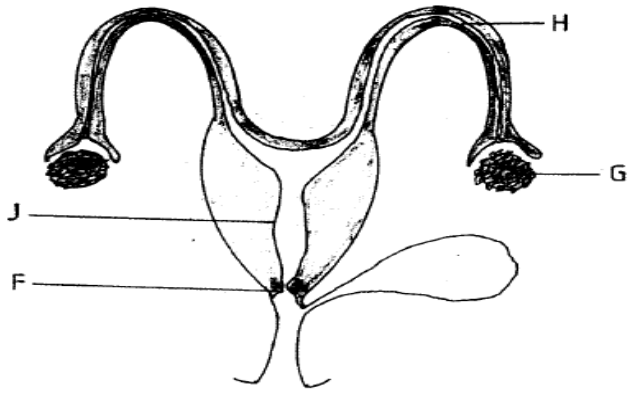
(iii) State the disadvantage of the above structure in rearing of poultry. **(1mk)**

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22. The diagram below shows the reproductive system of a cow. Study it and answer the questions that follow



(i) Name the parts labeled **J , F** and **H.** **(3mks)**

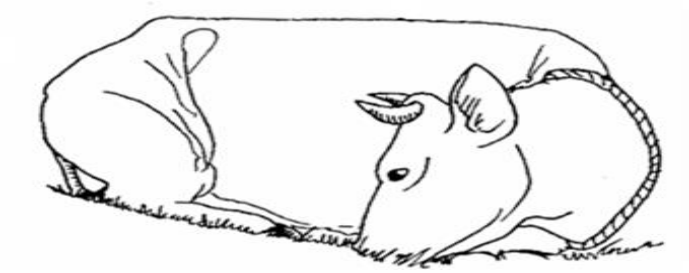
J ……..

F ……..

H ……

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(b) The illustration below shows a cow suffering from a disease. Study it and answer the questions that follow



i) Identify the disease…… **(1mk)**

ii) State the cause of the disease illustrated above. **(1mk)**

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iii) Give **two** symptoms of the disease the animal is suffering from. **(2mks)**

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23. Study the illustration showing a livestock management practice and answer the questions that follow.



a) Identify the livestock management practice illustrated above. **(1mk)**

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SECTION C (40 Marks)

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

24.(a) Describe fish management under the **procedure** for establishing a pond. **(7mks)**

(b) State **five** factors that determine the quality of honey **(5mks)**

(c) Describe cattle management at dipping. **(8mks)**

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25.a) Describe **five** parts and function of the zero Grazing Unit **(10mks)**

(b) State and explain **five** factors considered when selecting a breeding stock. **(5mks)**

(c) Explain **five** mechanical methods of controlling ticks**.** **(5mks)**

26 (a) State **four** advantages of embryo transplant. **(4mks)**

(b) Give **four** reasons why young rams should be docked **(4mks)**

(c) Explain **six** characteristics of a dairy cow. **(12mks)**

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PROGRESSIVE STUDENTS FORM 3 HYBRID END TERM 1 SERIES 1 EXAMS

NAME: ……..

SCHOOL: ……..

DATE:…….. ADM NO: …… SIGNATURE:……

BIOLOGY (231/1)

FORM THREE (3)

Time: 2 Hours

INSTRUCTIONS TO CANDIDATES

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

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

(c) Answer ALL the questions in the spaces provided on the question paper.

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

(e) Candidates should answer the questions in English.

FOR EXAMINER'S USE ONLY

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	26	27	28	29	GRAND TOTAL

1. Name one of the end products of the light reaction in photosynthesis. **(1mk)**

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2. Give two reasons why higher animals need an internal transport system. **(2mks)**

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3.a) Explain why a person discharges urine more frequently when environmental temperatures are low than when they are high**.** **(2mks)**

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4. Why is it important to use dry mass in ecological studies and not wet mass **(1mk)**

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5. The diagram of a grasshopper is one and a half of the real size of the grasshopper as drawn by a student. If the diagram is 3cm long.

a) Write down the formula of magnification. **(1mk)**

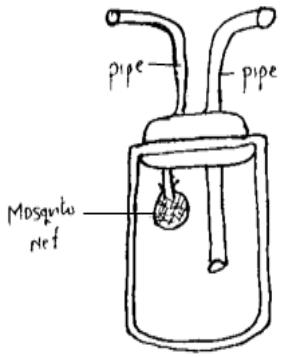
b) Calculate the actual size of the grasshopper. **(3mks)**

6. Which taxon has the largest number of members**.** **(1mk)**

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7. Study the apparatus illustrated below



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

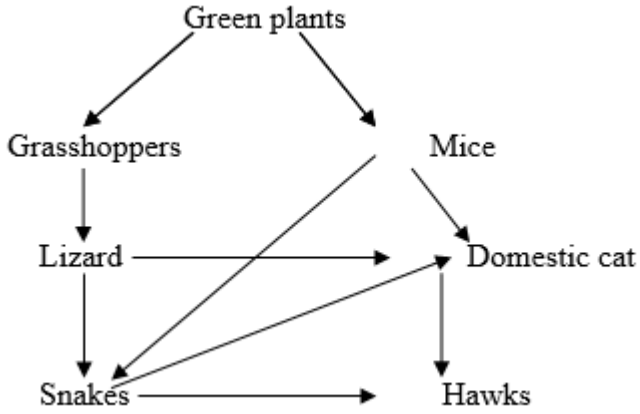
b) What is the use of the mosquito net in the apparatus..... **(1mk)**

8. The oxidation of a certain food is represented by the chemical equation shown below:

$C_{57}H_{104}O_6 + 80\ O_2 \rightarrow 57CO_2 + 52H_2O + Energy$

Calculate the respiratory quotient (RQ) of the food. **(2mks)**

9. The chart below shows a feeding in a certain ecosystem.



a) Construct two food chains ending with a tertiary consumer. **(2mks)**

b) Which organisms has the highest variety of predators in the food web. **(1mk)**

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c) Suggest one way in which the ecosystem would be affected if there was a prolonged drought **(1mk)**

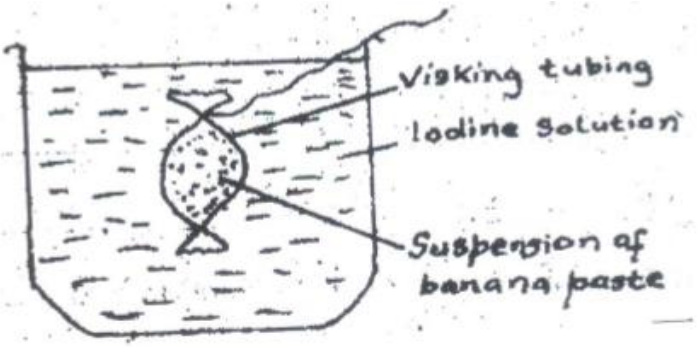
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10. In an investigation, raw banana was peeled, mashed into a paste, and was treated as shown in the set- up below.



a) Name the physiological process being investigated. **(1mk)**

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b) State the expected colour of the solutions inside and outside the visking tubing after 30 minutes. **(2mks)**

Inside

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Outside

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c) Explain the observation made in 10(b) above. **(2mks)**

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11. The figure below represents an organism.



a) Name the phylum and class to which it belongs. **(2mks)**

Phylum:

……

Class:

……..

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b) State two observable features that are used to place the organism in the class in 10 (a) above. **(2mks)**

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12. Liver damage leads to impaired digestion of fats. Explain this statement. **(2mks)**

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13. The diagram below represents an organelle involved in aerobic respiration.



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

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b) Name the parts labeled X and Y **(2mks)**

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14. Explain how the xylem are adapted to their function. **(1mk)**

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15. In what ways are the gill filaments of fish adapted to their function? **(2mks)**

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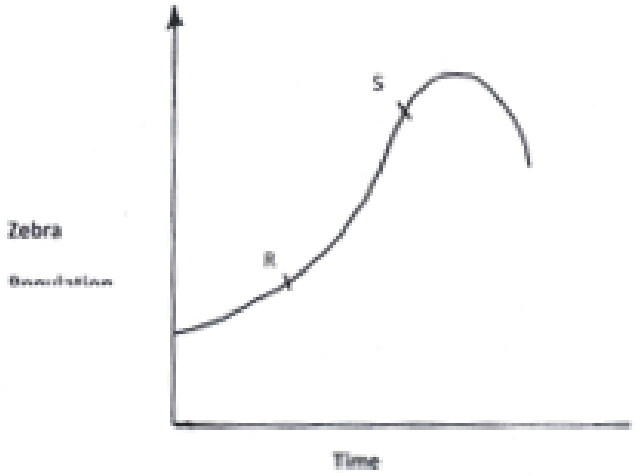
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16. The graph below represents a population growth curve of zebras in a grassland ecosystem over a period of time.



a) Account for the change in zebra population between points R and S on the growth curve above. **(2mks)**

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b) Name the most suitable method used in estimating the zebra population. **(1mk)**

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17. Explain how temperature increase the rate of photosynthesis. **(2mks)**

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18.a) Name the only epidermal cell in plants that contain chloroplast**.** **(1mk)**

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b) State one structural difference between palisade cells and spongy mesophyll cells. **(1mk)**

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19. a) Name the causative agents of the following diseases. **(2mks)**

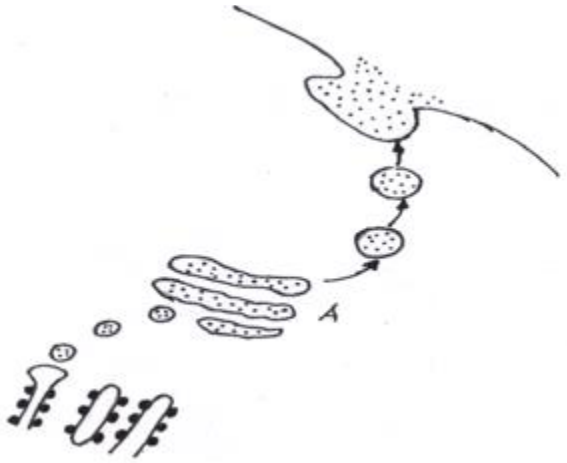
i) Amoebic dysentery

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ii) Tuberculosis

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20. Study the diagram of some organelles below.



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

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b) Give three functions of the organelle named in 20 (a) above. **(3mks)**

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21. The equation below represents a metabolic process that occurs in the mammalian liver.

$$\text{Amino acids} \xrightarrow[\text{Enzyme x}]{} \text{Organic compound} + \text{urea.}$$

a) Name the process that represents the above equation**.** **(1mk)**

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b) Identify the enzyme represented by x. **(1mk)**

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c) What is the importance of the process to mammals. **(1mk)**

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22. A scientist carried out blood sugar test for a given patient at three different times of the day. He obtained the results shown below for glucose and glycogen level.

Time	6 a.m	1.30 p.m	4 p.m
Glucose	90mg	100mg	90mg
Glycogen	20mg	40mg	60mg

Account for:

a) Presence of glycogen in blood**.** **(2mks)**

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b) Rise in glucose and glycogen levels at 1.30 p.m **(4mks)**

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22. Name the cell organelles that are responsible for the formation of the following organelles and structures. **(3mks)**

i) Lysosomes

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ii) Cilia and flagella

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iii) Ribosomes

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23. Name the blood vessels that: **(3mks)**

i) Supply blood to the heart muscles.

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ii) Has the lowest concentration of urea.

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iii) Has the highest concentration of glucose.

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24. Name three factors that would slow down enzyme activity**.** **(3mks)**

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25. State the importance of the following features in a respiratory surface**.** **(2mks)**

i) Moist**……..……..**

ii) Thin epithelium**……**

26.a) Define the term Homeostasis **(1mk)**

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b) Briefly explain how amoeba regulates the amount of water in the body when placed in distilled water. **(2mks)**

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27.(a) State two density dependent factors that affect population growth in an ecosystem. **(2mks)**

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b) Name the instrument used in measuring the following parameter in a habitat.

Depth of light penetration in a pond. **(1mk)**

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28.a) State what happens during the light stage of photosynthesis. **(2mks)**

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b) State the aspect of photosynthesis that is tested using a variegated leaf. **(1mk)**

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29. Sophia had a tooth ache, on inspection the mother realized that a hole had developed from above.

i) Identify the disease **.....** **(1mk)**

ii) State two ways the disease would have been avoided. **(2mks)**

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PROGRESSIVE STUDENTS FORM 3 HYBRID END TERM 1 SERIES 1 EXAMS

NAME: ……..

SCHOOL: ……..

DATE:…….. ADM NO: …… SIGNATURE:……

BUSINESS STUDIES (565)

FORM THREE (3)

Time: 2 *Hours*

INSTRUCTIONS TO CANDIDATES

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

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

c) Answer **ALL** the questions.

d) **ALL** answers must be written in the spaces provided in this booklet.

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

Question	14	15	16	17	18	19	20	21	22	23	24	25	TOTAL
Marks													

1. During subject selection in your school, you decided to choose business studies as your favorite subject among others. Highlight four ways in which business studies will be of importance to your community. **(4mks)**

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2. Give the meaning of the following terms as used in business studies. **(4mks)**

a) Free goods

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b) Producer goods

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c) Public goods

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d) Non-material goods

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3. List four documents used in home trade at the order stage. **(4mks)**

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4. Highlight four reasons why human wants are not satisfied easily. **(4mks)**

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5. Give four reasons why consumers need to make choices. **(4mks)**

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6. Highlight four reasons why individual may start a business. **(4mks)**

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7. Identify the type of utility described below **(4mks)**

	Description	Type of utility
a)	Your parent bought you a business studies text book from a bookshop	
b)	Your grandmother kept her harvest of groundnuts in her granary	
c)	Loaves of bread brought to school by van	
d)	The carpenter made desks and chairs for students	

8. Highlight four benefits of division of labour to an organization. **(4mks)**

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9. Give four ways in which consumers may benefit when producers compete in product promotion. **(4mks)**

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10. Highlight four benefits an individual would get by being self-employed. **(4mks)**

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11. Identify four ways through which a business can ethically uphold a healthy environment. **(4mks)**

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12. Highlight four external factors that may affect the business operations negatively. **(4mks)**

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13. Highlight four advantages of itinerant traders. **(4mks)**

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14. Highlight four roles of Nairobi stock exchange as a market for securities. **(4mks)**

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15. Identify four methods used by the government to protect consumers. **(4mks)**

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16. Highlight four factors to consider when choosing a means of transport. **(4mks)**

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17. Highlight four circumstances under which telex may be used to convey a message. **(4mks)**

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18. You accompanied your elder sibling to your local registrar of persons office where he applied for his national identity card. You sadly noted that the clerks that served you lacked etiquette. Suggest four measures that they can take to improve on their etiquette. **(4mks)**

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19. Outline four conditions under which a warehouse may be considered to be working efficiently. **(4mks)**

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20. Identify four uses of pro-forma invoice. **(4mks)**

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21. Identify four features of property insurance. **(4mks)**

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22. Highlight four factors that may cause a rightward shift of the supply curve. **(4mks)**

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23. Other than forces of demand and supply highlight four methods of determining prices of commodities in a market. **(4mks)**

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24. Outline four factors that may be considered when measuring when measuring the size of the firm. **(4mks)**

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25. Outline four reasons why a firm may remain small. **(4mks)**

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PROGRESSIVE STUDENTS FORM 3 HYBRID END TERM 1 SERIES 1 EXAMS

NAME: ……..

SCHOOL: ……..

DATE:…….. ADM NO: …… SIGNATURE:……

CHEMISTRY(233)

FORM THREE(3)

Time: 2 Hours

Instructions to candidates

a. Write your name, admission number, index number, and stream in the spaces provided above.
b. Sign and write the date of the examination in the spaces provided.
c. Answer **ALL** the questions in the spaces provided.
d. Candidates **MUST** answer all questions in English.
e. KNEC mathematical tables and silent non-programmable electronic calculators may be used.
f. This paper consists of **8 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.**

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QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
1 – 22	80	

1. The grid below represents part of the Periodic Table. Study it and use the information to answer the questions that follow. The letters do not represent actual symbols of elements.

Q			L	M			R	Z
V	X		D		E	Y		W

a. Compare the 1st ionization energies of:
i. L and D **(1Mk)**

……

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……

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ii. V and D **(1Mk)**

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……

b. Explain your comparisons in **(a)** above **(2Mks)**

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c. From the grid, state and explain:

i. The least reactive metal **(2Mks)**

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ii. The most reactive non-metal **(2Mks)**

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d. A compound can be formed between **X** and **R**, and between **D** and **R**.

i. Compare the temperatures at which the compounds of **X – R**, and **D – R** change from their solid state to the next physical state. **(1Mk)**

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ii. Explain your answer in **d)(i)** above **(2Mks)**

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2. Jomo performed a chemical test on a colourless liquid, to determine if the liquid was water. He later confirmed that the liquid was not water. Describe the test he may have carried out, giving the observations that he probably made. **(2Mks)**

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3. Describe how a sample of sodium chloride can be prepared in the laboratory by direct synthesis. **(2Mks)**

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4. Carbon and silicon are group IV elements. At room temperature, carbon (IV) oxide exists as a gas while silicon (IV) oxide exists as a solid. Explain this observation in terms of structure and bonding. **(3Mks)**

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5. A metallic hydroxide solution of formula MOH was made by dissolving 11.2g of the hydroxide in enough solvent to make one litre of solution. $6cm^3$ of this solution required $12cm^3$ of sulphuric (VI) acid solution containing $4.9g/dm^3$ of the acid for complete neutralization. calculate the relative atomic mass of M **(3Mks)**

(H = 1.0, S = 32.0, O = 16.0)

6. A mixture of magnesium powder and lead (II) oxide reacts vigorously to form a white residue when heated, but no reaction is observed when a mixture of magnesium oxide and lead powder is heated.

a. Explain this observation. **(2Mks)**

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b. Write a chemical equation for the reaction of magnesium powder and lead (II) oxide **(1Mk)**

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c. In the reaction above, identify:

i. The reducing agent **……** **(1Mk)**

ii. The oxidized species**……..** **(1Mk)**

7. The table below shows the pH values of some solutions. Use the information to answer the questions that follow.

solution	pH value
J	1.3
K	13.8
L	5.9
M	7.8

Which solution would:

i.Change universal indicator from green to violet? **(1Mk)**

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ii. React with sodium carbonate vigorously **(1Mk)**

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8. Sodium chloride, fine marble chips, and naphthalene all exist as white crystals. Naphthalene dissolves in propanone but not in water, while sodium chloride dissolves in water but not in propanone. Marble chips do not dissolve in water or in propanone. Describe how a mixture of the three crystalline substances would be separated. **(3Mks)**

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9.

a.State Gay Lussac's law **(1Mk)**

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b. When $15cm^3$ of a gaseous hydrocarbon C_mH_n was burnt in $115cm^3$ of oxygen, the resulting gaseous mixture occupied $70cm^3$ at room temperature and pressure. When the gaseous mixture was passed through sodium hydroxide solution, its volume decreased to $25cm^3$. Determine the molecular formula of the hydrocarbon. **(3Mks)**

10. State and explain the difference in radius between Mg^{2+} and Na^+. **(2Mks)**

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11. Three drops of methyl orange indicator were added to distilled water in a glass beaker. A piece of potassium metal was added to the beaker.

a. State any **two** observations made on the piece of potassium during the reaction **(2Mks)**

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b. Explain the observations made in **(a)** above **(2Mks)**

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c. State and explain the observations made on the methyl orange indicator during the reaction **(2mks)**

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12. Corn oil is obtained from maize seeds. Describe a laboratory procedure that may be used to obtain the oil from the seeds. **(2Mks)**

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13. Calculate the mass of zinc in grams that would remain if 1.96g of the metal reacted with 100g of a 0.2M hydrochloric acid solution **(3Mks)**

(Zn = 65.0, H = 1.0, Cl = 35.5)

14. Calcium hydroxide can be used to test for the present of carbon (IV) oxide, but sodium hydroxide cannot be used for the test. Explain **(2Mks)**

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15. The table below is a summary of some properties of the listed substances. Study it and use it to answer the questions that follow:

Substance	J	Y	U	K	X	P
Melting point (^{o}C)	900	1250	-105	32	50	114, 119
Boiling point (^{o}C)	1520	2730	-45	170	380	555
Electrical conductivity in solid state	poor	poor	poor	poor	good	poor
Electrical conductivity in molten state	good	poor	poor	poor	good	poor

a.In terms of structure and bonding explain:

i.The electrical conductivity of substance **J**. **(2Mks)**

……

……

……

……

ii. The melting and boiling point of substance **U** **(2Mks)**

……

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b. If substance **X** is made up of one type of atoms only, and its atom has a valency of 2, draw a figure to demonstrate how 4 atoms of substance **X** would combine. **(2Mks)**

16. Describe how calcium hydroxide solution can be used to distinguish solid samples of sodium carbonate and sodium hydrogen carbonate in the laboratory **(2Mks)**

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17. Element **V** has two isotopes $^{60}_{30}\mathbf{V}$ and $^{61}_{30}\mathbf{V}$ which occur in the ratio **y:2**. If the R.A.M. of element **V** is 60.4, calculate the value of **y** **(3Mks)**

18. The electron arrangement of $\mathbf{X}^{3-}$ and $\mathbf{R}^{3+}$ are 2.8 and 2 respectively.

a. Write the electron configurations of their atoms: **(2Mks)**

R ……

X ……

b. Write the formula of the nitrate of element **R** **(1Mk)**

……

……

19. The table below provides information on atoms of given elements. The letters are not actual symbols of elements. Use this information to answer the questions that follow:

element	atomic radius (nm)	ionic radius (nm)
A	0.172	0.087
D	0.185	0.121
E	0.124	0.034
G	0.153	0.046

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a. State and explain the most likely chemical bond that may exist between two atoms of element **G** **(2Mks)**

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b. Which element in the table would be the most reactive? Explain **(2Mks)**

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c. An element **J** has an atomic radius of 0.162nm. When a piece of **J** was burnt and the residue added to a small beaker containing distilled water, the resulting solution changed blue litmus paper to red while red litmus paper remained red. Can element **J** be included in this table? Explain **(2Mks)**

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20. It is expected that a distillate is pure. Describe a laboratory procedure that can be used to confirm that a distillate is pure, and does not contain any dissolved solute **(2Mks)**

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21. The following procedure was carried out in the laboratory. A piece of zinc metal was cut into small pieces and heated in air to form a white **residue-1**. Dilute nitric (V) acid was added to **residue-1** and the mixture stirred to form **solution-1**. Solid potassium carbonate was then added to solution-1, and the resultant mixture filtered to obtain **residue-2** and a filtrate. **Residue-2** was rinsed with distilled water and dried between filter papers to give a white powder.

a. Give the name of **residue-2** **(1Mk)**

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b. Write a chemical equation to show the formation of **residue-2** in **(a)** above **(1Mk)**

……

……

c. Name solution formed when solid potassium carbonate was added to **solution-1** **(1Mk)**

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……

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d. Write a chemical equation for the reaction of **residue-1** with dilute nitric (V) acid **(1Mk)**

……

……

e.Write an ionic equation to show the formation of the white powder **(1Mk)**

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f. Write an equation for the chemical change that occurs when the white powder is strongly heated **(1Mk)**

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g.Identify the ions that remain dissolved when potassium carbonate was added to **solution-1** **(1Mk)**

……

……

h. Name the type of reaction that occurred when solid potassium carbonate was added to **solution-1** **(1Mk)**

……

……

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PROGRESSIVE STUDENTS FORM 3 HYBRID END TERM 1 SERIES 1 EXAMS

NAME: ……..

SCHOOL: ……..

DATE:…….. ADM NO: …… SIGNATURE:……

COMPUTER STUDIES (451)

FORM THREE(3)

Time: 2 ½ Hours

INSTRUCTIONS TO CANDIDATES

- Write your Name and Admission Number in the spaces provided above.
- This paper consists of **TWO** sections: **A** and **B**
- Answer **ALL** questions in section **A**
- Answer question 16 and any other **THREE** from section **B**
- All answers should be written in the spaces provided in the question paper

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Section	Question	Candidate's Score
A	1 – 15	
	16	
	17	
	18	
	19	
	20	
	Total Score (100)	

This paper consists of 10 Printed pages.
Candidates should check the question paper to ensure that all the Papers are printed as indicated and no questions are missing

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SECTION A (40 marks)

Answer all the questions in this section.

1. Define the following terms as used in data processing **(2mks)**

a.Timelines

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b. Accuracy

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2. Describe any three types of action queries **(3mks)**

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3. List four examples of magnetic disks **(2mks)**

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4. Define the following terms as pertaining computer software **(2mks)**

a. Upgradeability

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b.Compatibility

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5. State four factors that cause system malfunction in window operating system platform **(4mks)**

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6. Briefly describe two advantages of a cordless mouse **(2mks)**

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7. Give two reasons for using binary system in computers (**2mks)**

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8. Name three types of graphical objects that can be inserted in a Word document **(3mks)**

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9. What is the function of the following Microsoft Access field properties **(2mks)**

a.Caption

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b. Validation Rule

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10. Workout the twos complement of -17_{10} **(2mks)**

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11. Describe three factors that affects the provision of internet based services **(3mks)**

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12. Give four ways employed by organizations in minimizing threats to data integrity **(4mks)**

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13. What is the role of a master page in DTP **(2mks)**

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14. State three ways in which computer virus infection can be prevented other than through restricting the usage of removable storage media like flash disk, floppy disk, memory card etc. **(3mks)**

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15. ICT can be very useful in the management of learning Institutions. State any four ways in which ICT can be used in a school to improve service delivery **(4mks)**

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SECTION B (60 marks)

Answer questions 16 and any other three questions from this section.

16.

a. Perform the following number system conversion

i. 1298128 base 10 to Binary **(3mks)**

ii. AFH to Octal **(3mks)**

b. Carryout the binary arithmetic below **(3mks)**

$10100_2+1010_2-1010_2-1010_2$

c. Using 8-bit notation, perform the twos complement of $10_{10}-19_{10}$**,** leaving your answer in binary **(3mks)**

d. Given that 10111 is negative number give three possible decimal equivalent of this number **(3mks)**

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17.

a. The information below is maintained by the patron of Maranda High School Scout club. Study it and answer the questions that follow.

Name	Form	AdmNo	Membership No	Group	Registration Fee	Contribution
Peter Kimani	4K	2720	S001	Lion	1000	2000
James Kale	3G	2812	T001	Zebra	1000	3000
John Walter	2K	2929	T003	Zebra	1000	5000
Jackstone Kali	4G	2712	M001	Warthog	1000	1000
Moses Kibanda	3R	2820	A001	Warthog	1000	2000

i. State the most appropriate data type for AdmNO, Membership No and Group **(3mks)**

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ii. Write an expression used to compute the total amount contributed by each member **(2mks)**

iii. Assuming that you are a Database administrator split the table in (a) above into two tables and explain how to establish a relationship between them **(3mks)**

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iv. Write an expression that will calculate the grand Total for Registration fee in a Report **(2mks)**

b. Explain the following functions of an operating system

i. Interrupt handling **(1mk)**

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ii. Security **(1mk)**

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(b) Name three programs that resides in the system tray when the computer is on (**3mks)**

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18.

i.The table below is an extract from a spreadsheet document used it to answer the questions that follow

	A	B	C	D	E	F
1	**ITEM NAME**	**NUMBER OF ITEMS**	**UNIT COST**	**TOTAL BUYING PRICE**	**TOTAL SELLING PRICE**	**PROFIT**
2	KDF	150	120			3600
3	Gaddaffi	135	50			1350
4	Blue Band	120	120			2880
5	Cocoa	118	50			1180

a.Identify the most appropriate data type used to represent the content of D2, F2 and A1 **(3mks)**

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b. State how cell F5 can be represented using R1C1 style **(1mk)**

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c.Write a formula used to compute

i.Total Buying price **(1mk)**

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ii. Profit **(1mk)**

d.Write a function that will assign Item position based on the profit margin **(2mks)**

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(Item with the highest profit margin position one)

ii. Explain the following data management features used in spreadsheet

a. Sort **(1mk)**

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b. Data validation **(1mk)**

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c.Filter **(1mk)**

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iii. Give four characteristics of a laser printer **(4mks)**

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19.

a. What is a template with reference to Word processing **(2mks)**

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b.Describe three factors to consider when choosing a word processor **(3mks)**

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c.Describe the following basic features of word processing

i.Word wrap **(1mk)**

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ii.Scrolling **(1mk)**

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iii.Help **(1mk)**

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d.Explain how the following printer problems can be fixed when printing a word document

i. Paper Jam **(1mk)**

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ii. Printer is offline **(1mk)**

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e.The Kenya Government introduced ICT integration in education by financing selected schools to setup a Computer Lab and acquire ICT gadgets. Mention five measures against theft that the schools must enforce to ensure safety of ICT gadgets in the Computer Lab **(5mks)**

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20.

a. Data collection is the first stage in data processing cycle. Mention four devices that can be used in this stage to capture data directly from source during data collection **(4mks)**

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b. Describe three ways of reducing transcription errors during data entry **(3mks)**

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c. Mention three challenges facing electronic information processing **(3mks)**

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d. Distinguish between Reference file and Backup file **(2mks)**

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e. A staffing Officer in a company is responsible for making a payroll for the employees. The payroll is organized according to the date of employment for the purposes of job promotion and replacement

i. Name the most appropriate electronic data processing mode for this organization **(1mk)**

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……

ii. State two advantages of the electronic data processing mode identified in (i) above **(2mks)**

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PROGRESSIVE STUDENTS FORM 3 HYBRID END TERM 1 SERIES 1 EXAMS

NAME: ……..

SCHOOL: ……..

DATE:…….. ADM NO: …… SIGNATURE:……

CHRISTIAN RELIGIOUS EDUCATION

FORM THREE (3)

Time: $2^{1}/_{2}$hrs

Instructions:

This Paper has SIX questions.

Answer FIVE questions only.

QUESTION	1	2	3	5	6	TOTAL
MARKS	20	20	20	20	20	100

1a) Identify human authorship in the Bible **(7mks)**

b) Give reasons why Prophet Elijah faced danger and hostility in Israel **(6mks)**

c) What is the relevance of Elijah s prophetic mission to Christians today **(7mks)**

2a) Outline the ministry of John the Baptist as stated in the Benedictus **(7mks)**

b) Narrate the healing of the Paralytic man (Luke 5: 17-26) **(8mks)**

c) What lessons do Christians learn about Jesus from the healing of the Paralysed man **(5mks)**

3a) Outline Jesus teaching on faith and humility (Luke 9:37-50)

b) Explain the cleansing of the Temple **(8mks)**

c) What is the significance of the teaching of Eschatology to Christians today **(7mks)**

4a) Explain the Criteria for discerning the gifts of the Holy Spirit **(6mks)**

b) Identify teachings of Saint Paul on the similarities between the church and husband and wife **(8mks)**

c) Identify factors for disunity in the church today **(6mks)**

5a) Relate between the Old Testament prophecies and the New Testament **(7mks)**

b) Give the Historical background of Prophet Amos **(8mks)**

c) What is the relevance of Amos teaching on social justice and responsibility to Christians today **(5mks)**

6a) Describe the Traditional African ways of venerating and communicating with Ancestors **(8mks)**

b) Why is kinship important in the Traditional African Society **(6mks)**

c) Give six moral values expected of initiates in African Traditional society **(6mks)**

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PROGRESSIVE STUDENTS FORM 3 HYBRID END TERM 1 SERIES 1 EXAMS

NAME: ……..

SCHOOL: ……..

DATE:…….. ADM NO: …… SIGNATURE:……

ENGLISH (101)

FORM THREE (3)

Time: 2 Hours

Instructions to the candidates

i. Write your name and admission number in the spaces above.

ii. Answer all the questions in the spaces provided.

iii. Check to ascertain that the paper has all questions.

iv. The paper has 7 printed pages.

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QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
1. FUNCTIONAL WRITING	20	
2. CLOZE TEST	10	
3. ORAL SKILLS	30	
POETRY	20	
4. GRAMMER	20	
	100	

1. Functional writing **(20mks)**

Imagine that your school organized for four main events that took place in week three of this term. The events are: Form Four Launching of the 2023 Academic Day, Inter-class Competitions Day, Prize Giving Day and Visiting Day. Write a four-day personal journal of four entries describing the events clearly, your responses and reflections.

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2. CLOZE TEST

Fill in the blank spaces in the following passage with the most appropriate word. (10mks)

Many young people **(a)……..** to grow into successful adults in the **(b)……..** As they think of this, they feel they need someone of accomplishment to take them under their **(c) ……..,** guide and open doors for them. It is easier to achieve **(d)……** when successful people show you the way than when left alone.

Children grow up being guided by parents **(e)……..** siblings , good teachers and it would be better if this continued into adulthood. Consequently, they yearn for cosseting, a feeling that someone gives a damn and will make the paths **(f)……** for them.

Mentorship becomes difficult because, other than your close family members, it is not easy for someone to be **(g) ……..** concerned about the other's progress. Besides, mentors hardly have time **(h) ……..** abundance; they are busy winning in their own lives.

The bottom line is: great mentors are hard to come **(i) ……..** but mentorship is seemingly a nice idea. Genuine mentorship happens when there is a natural relationship shared between the mentor and the **(j)……..**

3. ORAL SKILLS (30mks)

a. Read the poem below and answer the questions that follow

Rise Around the Rosie

The world outside is wide
I tell myself I'm safe inside
But all our walls are creeping near
As the life I had fades into fear
It takes all night for sleep to fall
I wait all the day for the all-clear call

i) Describe the rhyme scheme in the above poem and state its effectiveness **(3mks)**

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ii) Apart from rhymes, explain **two** other ways the rhythm has been achieved in the above poem. **(4mks)**

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iii) How would you perform the last line of the poem above? **(2mks)**

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b. Write a word pronounced exactly the same way as: **(3mks)**

i) Gate

ii) Hew

iii) Metal

c. Underline the silent letter(s) in: **(3mks)**

i) Chorus

ii) Months

iii) Submission

d. Underline the part of the word in boldface that needs to be stressed. **(5mks)**

i) All I did was to **con.sole** her.

ii) His **di.gest** was full of books and poems.

iii) I am joining you this **Sep.tem.ber**.

iv)**Com.mu.ni.ca.tion** is key here.

v) Your performance is directly **at.trib.uted** to your behavior.

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e. Imagine that you attended a public lecture on how to pass exams. How would you ensure that you pay **attention** despite the **high temperatures** and **congestion in the room**? **(5mks)**

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f. You are a TV presenter with "KTN" station. You have been assigned the duty to **interview** an important and famous writer in the name of H.R Ole Kulet. How would you **prepare** yourself for an effective session with a view to producing a good programme? **(5mks)**

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Q.3 Read the following poem and answer the questions that follow. **(20mks)**

A child is like a rare bird.
A child is precious like coral.
A child is like brass.
You cannot buy a child in the market.
Not for all the money in the world.
The child you can buy for money is a slave.
We may have twenty slaves.
We may have thirty labourers,
Only a child brings us joy.
One's child is one's child.
The buttocks of our child are not so flat
That we should tie the beads on another child's hips
It may have a watery head or a square head.
One's child is ones child.
It is better to leave behind a child
Than let the slaves inherit one's house.
One must not rejoice too soon over a child.
Only the one who is buried by his child,
Is the one who has truly borne a child.

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On the day of our death, our hand cannot
hold a single cowry.
We need a child to inherit our belonging.

Questions

1. Explain what the poem is about. **(2mks)**

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2. Who is speaking in the poem? **(2mks)**

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3. Identify three reasons given in the poem for treasuring children. **(3mks)**

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4. What is the meaning of the following lines: **(4mks)**

(a) "Only the one who is buried by his child, is the one who has truly borne a child.'

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(b) 'On the day of our death, our hand cannot hold single cowry'.

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5. What three stylistic devices has the poet used in this poem? **(6mks)**

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6. With illustrations, identify the attitude of the persona towards 'a child' as expressed in the 1st six lines of the poem. **(2mks)**

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7. Give this poem a suitable title. **(1mk)**

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……

Q.4 GRAMMAR (20 MARKS)

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

(i) a, grey, horse, racing, Atieno, small, young, bought. (Rearrange the words to make a meaning sentence)

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(ii) He was kept awake all night by the barking of dogs. Change the sentence into active voice)

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(iii) Peter is renovating his house so that he may sell it. (Rewrite using: 'with a view…)

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(iv) Sunshine is the cleanest school in Kenya. (Rewrite using 'cleaner' instead of 'cleanest'.)

……

……

(v) We can control the spread of cholera by educating the public. (Begin: the spread of …)

……

……

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(b) Complete each of the following sentences by using the correct form of the word in brackets. (6mks)

(i) Saving the baby from the burning bus was a **……** act. (hero)

(ii) The Minister expressed doubts about the **……** of showing the film on children's television. (suit)

(iii) The students usually write their **……** in the afternoons. (compose)

(iv) That must be your **……** (brother-in-law) house.

(v) These **……. (**teacher) phones were stolen.

(vi) Since some students were late for supper, they got the **……..……** (little) share.

(c)Rewrite the following sentences to remove gender bias. (3mks)

(i) My brother was appointed the chairman of the Board of Management in my school.

……

…….

(ii)A teacher should give his students opportunities to develop their skills.

……

…….

(iii) The fireman ran out of water at the scene of the fire.

……

…….

(d) Fill in the blank spaces with the appropriate auxiliary verbs. (3mks)

(i) The child **……..…..**not play in the streets. (permission)

(ii) I **……..**not sleep five days ago. (past ability)

(iii) All students **……**revise their roles regularly if they want to pass well. (compulsion)

(e)Rewrite the following sentences as instructed. (3mks)

(i) Mary will not be granted permission if she does not tell the truth. (Begin: Unless…)

……

…….

(ii) She is very pretty. Begin: How…

……

…….

(iii) Since she excelled in the National exanimation, the school should award no one else but **……** (Fill in the blank with the appropriate pronoun).

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PROGRESSIVE STUDENTS FORM 3 HYBRID END TERM 1 SERIES 1 EXAMS

NAME: ……..

SCHOOL: ……..

DATE:…….. ADM NO: …… SIGNATURE:……

GEOGRAPHY (312)

FORM THREE (3)

Time: 2 ¾ Hours

INSTRUCTIONS TO CANDIDATES:

- This paper consists of **two** sections: **A** and **B**
- Answer **all** the questions in section **A**
- Answer question **6** and **any two** questions from **section B**
- All answers **must** be written in the answer booklet provided

SECTION A: 25 MARKS

Answer all the questions from this section.

1. **(a)** Name **two** layers of discontinuity in the interior of the earth. **(2mks)**

(b) State **three** characteristics of the mantle. **(3mks)**

2. **(a)** Differentiate between epicenter and seismic focus. **(2mks)**

(b) State **three** major earthquake seismic zones in the world. **(3mks)**

3. **(a)** Define the term climax vegetation. **(2mks)**

(b) Mention **three** factors that influence vegetation distribution. **(3mks)**

4. **(a)** A part from soil creep, state **two** other forms of slow mass wasting. **(2mks)**

(b) Outline **three** evidences of soil creep. **(3mks)**

5. **a)** Name **two** major forest blocks found along the Kenyan coast. **(2mks)**

b) State **three** factors contributing to depletion of forests in Kenya. **(3mks)**

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SECTION B: 75MARKS

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

6. Study the map of Kisumu East 1:50,000 (Sheet 116/2) provided and answer the questions that follow:

a) Give the magnetic variation of the Kisumu East map **(2mks)**

b) Give the longitudinal extent of the area covered by the map **(2mks)**

c) Name **three** human made features in the grid square 0084 **(3mks)**

d) Identify **two** methods used to show relief on the map. **(2mks)**

e) Calculate the area occupied by the drainage feature on the south western end of the area covered by the map and give your answer in km^2. **(3mks)**

f) Name **two** drainage features found on the area covered by the map. **(2mks)**

g) Enlarge the area bound by Easting 00 to 03 and Northing 82 to 84 **twice** and on it mark and name: **(5mks)**

i. River Luando

ii. All weather road, bound surface B25/3

iii. Seasonal swamp

iv. School at Olendu

h) Describe the relief of the area covered by the map. **(3mks)**

i) Citing evidences from the map, give **three** social functions of Kisumu Municipality. **(3mks)**

7. a)i. What is weathering? **(2mks)**

ii. Explain **three** factors which influence the type and rate of weathering **(6mks)**

b) List down **five** processes of chemical weathering **(5mks)**

c) Explain **three** ways in which people cause weathering. **(6mks)**

d) Explain the effect of weathering on the following

i) Tourism **(2mks)**

ii) Soil formation **(2mks)**

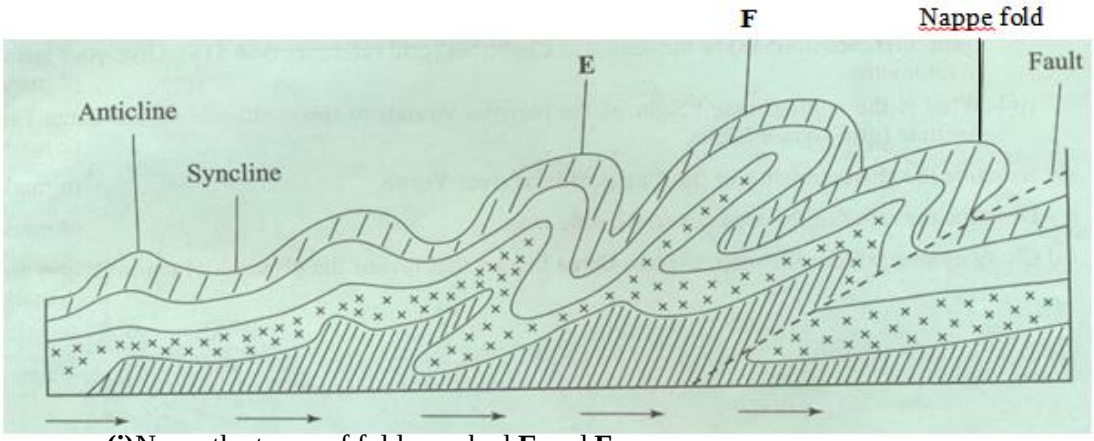
iii) Building industry **(2mks)**

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8.(a)(i) What is an orogeny? **(2mks)**

(ii) Give **two** factors that influence the folding process of rocks. **(2mks)**

(b) The diagram below shows some types of folds. Use it to answer the question (i) and (ii).



(i) Name the types of folds marked **E** and **F**. **(2mks)**

(ii) Describe how an overthrust fold is formed. **(4mks)**

(c) Name the **any** of countries in which the following fold mountains are found.

(i) Atlas **(1mk)**

(ii) Alps **(1mk)**

(iii) Himalayas **(1mk)**

(iv) Andes **(1mk)**

(d)(i) Apart from fold mountains, name **three** other features resulting from folding. **(3mks)**

(ii) Explain **four** ways in which fold mountains influence climate. **(8mks)**

9. (a) (i) Name **three** types of minerals. **(3mks)**

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

(b) (i) Describe shaft mining method. **(5mks)**

(ii) Outline **three** challenges faced by shaft miners. **(3mks)**

(c) Explain **four** problems facing the mining industry in Kenya. **(8mks)**

(d) Highlight **three** ways in which mining derelicts can be reclaimed. **(3mks)**

10.(a)i) Define a forest. **(2mks)**

ii) Name **two** indigenous soft wood trees in Kenya. **(2mks)**

(b)i) Explain **three** advantages of planted softwood forests in Kenya. **(6mks)**

ii) Explain **four** problems facing commercial exploitation of tropical hardwood forests **(8mks)**

(c) Compare soft wood forests in Kenya and those in Canada under the following headings:

i) Type of trees **(2mks)**

ii) Method of exploitation. **(2mks)**

(d) State **three** methods used by the government of Kenya to conserve the Mau forest. **(3mks)**

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PROGRESSIVE STUDENTS FORM 3 HYBRID END TERM 1 SERIES 1 EXAMS

NAME: ……..

SCHOOL: ……..

DATE:…….. ADM NO: …… SIGNATURE:……

HISTORY AND GOVERNMENT (311)

FORM THREE (3)

Time: 2½ Hours

Instructions to candidates:

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

b) Answer all questions in section A, Three questions from section B and Two questions from section C.

c) Answers to all Questions must be written in the Answer booklet provided.

d) Candidates should check the Question paper to ascertain that all pages are printed as indicated and no Questions are missing.

e) Answer all questions in English

For Examiner's use only

SECTION A		SECTION B		SECTION C		TOTAL
1-17		18-21		22-24		24
25		45		30		100

SECTION A (25 MARKS)

Attempt all the questions from this section.

1. State **one** characteristic of historical events. **(1mk)**

2. Give **one** reason why Homo habilis is referred to as an able man. **(1mk)**

3. Identify **one** way in which Land Enclosure System led to urbanization. **(1mk)**

4. Mention **one** archaeological evidence of contact between East African Coast and the outside world**.** **(1mk)**

5. Give **two** advantages of barter trade. **(2mks)**

6. Identify **two** effects of Land Apportionment Act of 1930 in Zimbabwe. **(2mks)**

7. State **two** factors which facilitated the spread of iron working in Africa. **(2mks)**

8. Give **two** methods used by Europeans to acquire colonies in Africa. **(2mks)**

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9. What was the **main** objective of Berlin Conference? **(1mk)**

10. Identify **one** community in Kenya that collaborated with the British. **(1mk)**

11. Give **one** term of Lewanika - Lochner treaty. **(1mk)**

12. Name **one** commune in Senegal where French rule was applied. **(1mk)**

13. Give **two** functions of chiefs in the colonial Kenya. **(2mks)**

14. State **two** ways in which the constitution of Kenya can be amended. **(2mks)**

15. Give **two** characteristics of Indirect Democracy. **(2mks)**

16. State **two** rights of Older Members of the society. **(2mks)**

17. What is Absolute Monarchy? **(1mk)**

SECTION B (45 MARKS)

Attempt any three questions from this section.

18 a) State **five** economic aspects of the Buganda in the 19th Century. (5 marks)

b) Explain **five** factors for the decline of the Shona Kingdom. (10 marks)

19 a) Give **five** economic reasons for the scramble for Africa. (5 marks)

b) Explain **five** causes of the Maji Maji Rebellion. (10 marks)

20 a) Identify **three** communities in Kenya that showed mixed reactions towards British occupation. (3 marks)

b) Explain **six** results of the Wanga collaboration. (12 marks)

21 a) State **five** reasons for the use of Indirect Rule in Northern Nigeria. (5 marks)

b) Explain **five** effects of Direct Rule in Zimbabwe. (10 marks)

SECTION C (30 MARKS)

Attempt any two questions from this section.

22a) Mention **five** peaceful methods of resolving conflicts. **(5mks)**

b) Explain **five** values of good citizenship. **(10mks)**

23 a) State **three** importance of Human rights. **(3mks)**

b) Explain **six** ways in which the Bill of Rights guarantees citizens their fundamental rights and freedom. **(12mks)**

24 a) Identify **five** documents from where the United Kingdom draws the principles of its unwritten constitution. **(5mks)**

b) Explain **any** five features of the Constitution of Kenya, 2010 **(10mks)**

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PROGRESSIVE STUDENTS FORM 3 HYBRID END TERM 1 SERIES 1 EXAMS

NAME: ……..

SCHOOL: ……..

DATE:…….. ADM NO: …… SIGNATURE:……

HOMESCIENCE (441/1)

FORM THREE (3)

Time: 2½ Hours

INSTRUCTIONS:

- This paper consists of three sections A, B and C.
- Answer all questions in section A, Question 20 (Compulsory) in B and any two questions from C

For Examiners use only.

Section	Question	Maximum Score	Candidates Score
A	**1-19**	**40**	
B	**20**	**20**	
		20	
		20	
Total		**100 marks**	

SECTION A (40 MARKS)

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

1. List down **two** dry methods of cooking. **(1mk)**

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2. Give **two** reasons for laundering a baby's clothes separate from other family clothes . **(2mks)**

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3. Mention **two** advantages of building a house using mud and grass on the roof. (**2mks)**

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4. Mention **two** possible causes of a miscarriage in pregnancy. **(2mks)**

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5. Highlight **three** rules when working hand stitches. **(3mks)**

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6. State **two** points to underline the importance of meal planning. **(2mks)**

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7. Briefly explain **three** possible causes of low birth weight in a baby. **(3mks)**

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8. Highlight **three** ways of improving the flavour of a stew. **(3mks)**

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9. Mention **two** reasons why clothes should be well dried before storage. **(1mk)**

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10. Briefly explain **three** rules to observe when buying clothes for a tall slim person. **(3mks)**

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11. Mention **four** things that may pollute a river in a residential area. **(2mks)**

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12. State the function of each of the following sewing equipment: **(2mks)**

- Crewels

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……...

- Bodkin

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……...

- Seam ripper

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……...

- Thimble

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……...

13. Highlight **three** rules on care of a lactating mother in order to ensure the baby is well nourished. **(3mks)**

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14. Differentiate between **Buffet** and **Cafeteria** food service. **(2mks)**

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……...

15. Arrange the following dishes to make a three-course meal. **(3½mks)**

Buttered Peas and Carrots
Ice Cream
Grilled Liver
Onion Soup
Roast Potatoes
Sweet and sour Sauce
Dinner Rolls

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……...

16. Mention **four** complications of pregnancy. **(2mks)**

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17. Give two qualities of a good electric iron. **(1mk)**

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18. Mention **three** safety precautions one needs to observe when handling knives. **(1½mks)**

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19. List **two** immunizations given soon after delivery before the baby goes home. **(1mk)**

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SECTION B (20 MARKS)
COMPULSORY

20. Your aunt has come to visit with her 2-month-old baby.

a) Outline the procedure you would follow when laundering your aunt's fast coloured cotton nightdress with a milk stain.
(8mks)

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b) Describe how you would prepare the old baby cot in your home for the baby. **(12mks)**

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SECTION C (40 MARKS)
Answer any TWO questions from this section.

21.

a) Briefly explain **four** challenges elderly people face in terms of good nutrition. **(6mks)**

b) Highlight **four** preparations an expectant mother needs to make before delivery. **(6mks)**

c) Discuss **four** challenges a family may encounter if meals are not planned. **(8mks)**

22.

a) Explain the reason why the following nutrients are important in an expectant mother's diet. **(4mks)**

i) Folic acid
ii) Iron
iii) Calcium
iv) Roughage

b) State **five** signs of dehydration in a six-month-old baby**.** **(5mks)**

c) Discuss **four** measures that could help prevent incidences of malnutrition in rural areas. **(6mks)**

d) Highlight **five** rules to observe when setting a dinner table for guests. (**5mks**)

23.

a) Discuss **four** disadvantages of using disposable diapers over cloth nappies for babies and children. **(6mks)**

b) Outline five points to observe when buying baby layette. **(5mks)**

c) Explain **four** desirable qualities of baby cot sheets**.** **(6mks)**

d) Mention three qualities of a good baby bath basin. (**3mks**)

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PROGRESSIVE STUDENTS FORM 3 HYBRID END TERM 1 SERIES 1 EXAMS

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SCHOOL: ……..

DATE:…….. ADM NO: …… SIGNATURE:……

ISLAMIC RELIGIOUS EDUCATION (314)

FORM THREE (3)

Time: 2 ½ Hours

INSTRUCTIONS:

1. This paper contains five (5) questions.
2. Answer ALL the questions
3. Write your answers in the answer sheet provided.
4. All answers must be in English.

1. a) Describe the role played by angel Jibril in the revelation of the Qur'an**.** **(7mks)**

b) Explain four differences between Makkah and Madinah surahs. **(8mks)**

c) State the lessons Muslims learn from suratul fil **(5mks)**

2. a) Explain the evolution of Hadith **(8mks)**

b) Sate six conditions that a matn of a hadith must fulfill to be accepted as authentic**.** **(6mks)**

c) Give six reasons why Allah sent prophets to mankind. **(6mks)**

3. a) Describe the major signs of Qiyamah. **(5mks)**

b) State the things forbidden to a woman in haydh. **(7mks)**

c) Explain four types of Sawm. **(8mks)**

4. a) State five occasions when a Muslim is required to exercise swabr. **(5mks)**

b) Explain reasons why divorce cases are rampant in the Muslim society. **(10mks)**

c) Identify the rights of children in Islam. **(5mks)**

5. a) Describe the forms of persecution the early Muslims were subjected to in Makkah. **(7mks)**

b) Identify any six contributions made by *Sayyidna* Ali to the prophet's mission. **(6mks)**

c) Discuss the contributions of Sheikh Swaleh Farsy to the Growth of Islam in East Africa. **(7mks)**

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PROGRESSIVE STUDENTS FORM 3 HYBRID END TERM 1 SERIES 1 EXAMS

JINA: ……..

SHULE: ……..

TAREHE:…….. NAMBARI YA USAJILI: …… SAHIHI:……

KISWAHILI (102)

MUHULA WA KWANZA

KIDATO CHA TATU

MUDA: SAA 2:30

Maagizo

a. Jibu maswali **yote**

b. Majibu yote yaandikwe katika nafasi ulizoachiwa katika karatasi hii ya maswali

c. Majibu yote **lazima** yaandikwe kwa lugha ya Kiswahili

d. Karatasi hii ina kurasa 10 zilizopigwa chapa

e. Watahiniwa ni lazima wahakikishe kuwa kurasa zote za karatasi hii zimepigwa chapa sawasawa na kuwa maswali yote yamo.

Kwa matumizi ya mtahini pekee

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

1. UFAHAMU (ALAMA 15)

Soma kifungu kifuatacho kisha ujibu maswali;

Ilikuwa siku ya Jumapili moja yalipotokezea mambo hayo. Kwa kawaida, Jumapili ni siku yangu ya kupumzika. Siku ya kuachana na vitabu na shughuli nyingine za masomo baada ya kazi ngumu za juma zima. Nilihisi nastahiki kupumzika, anagalau siku moja kwa wiki. Nipumzike kwa kufanya nililopenda.

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Kwangu mimi kupumzika kulikuwa na maana tofauti na maana ya kupumzika kwa watu wengine. Kupumzika kwangu mimi ni kuwasaidia wazazi wangu kuchunga ng'ombe na mbuzi ili nipate fursa ya kuweko vichakani peke yangu. Nipate kuwa karibu na maumbile. Niwe karibu nayo huku nimetulia kimya huku natazama mandhari na maumbile ya kijiji chetu.

Mara nyingine hali hii ya utulivu wa maumbile hunifanya niimbe kwa sauti ya juu au kimyakimya. Pengine husinzia hapo na kuota ndoto za hamu yangu. Kuota baadaye yangu na mema ninayojitakia. Naam, haya yote ndiyo yaliyokuwa na maana ya kupumzika kwangu. Yote haya na zaidi ya haya ambayo nitayataja baadaye.

Leo lakini, kinyume na unavyodhani wewe, nilikuwa nimejaa mchanganyiko wa huzuni na furaha wakati mmoja. Kule mwituni nilikokuwa nikichunga ng'ombe, kumbe sikufuatwa kuposwa kama nilivyofikiri. Nilifutwa ili kumwonyesha yule mteja mifugo aliyotaka kununua. Baba na mama waliamua kuwauza wanyama wetu wote hatimaye. Baba alisema kuwa mjomba Kasimu, aliyefariki miezi sita iliyopita, ameacha kibanda huko jijini na yeye baba na mama wameamua kuenda kuishi huko jijini ili wanipe fursa ya kusoma na kuelimika zaidi, Sasa nadhani utaweza kufahamu maana ya mchanganyiko wangu wa huzuni na furaha. Furaha, kwa sababu ndoto yangu imeitikiwa hatimaye. Yale maombi yangu niliyoyaomba karibu na mbingu yamekubaliwa. Sasa niko tayari kwenda jijini kutimiza wajibu wangu. Kwenda kuikabili kazi ngumu. Kuitumia fursa hiyo ya kusoma na kujielimisha zaidi kuliko huku kijijini. Niko tayari kusoma na kujituma kwa bidii zangu zote ili nifike ukomo wa masomo yote ninayoweza kufikia.

Kwa upande mwingine lakini, nilikuwa mzito kuondoka kwa sababu nyingi. Kwanza, kwa jinsi nilivyokipenda kijiji chetu. Pili, sikuwa tayari kutengana na wale mifugo wetu ambao kwa muda mrefu nimefanya urafiki nao. Leo ghafla wamenunuliwa na kuchukuliwa na mtu mwingine. Nilihitaji muda mrefu kuweza kuwasahau. Kama ningeweza kamwe. Tatu, niliona aibu, na aibu zikanitia huzuni kwa kuwafikiria vibaya wazazi wangu. Kwa nini niliweka mbele hamu yangu tu? Kwa nini nilionyesha ubinafsi wangu tu? Kwa nini nilisahau mapenzi na ahadi ya watu hawa wanaonipenda kuliko kitu chochote? Kwa nini niligeuka haini mara moja bila ya kufikiri. Kwa nini sikutaka hata kusadikisha ukweli au uongo wa ile fikira ya posa?
(Kutoka kwaVipawa vya Hazina, na Said A Mohamed)

Maswali

a) Ipe taarifa hii kichwa mwafaka **(alm1)**

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……...

b) Tambua msimulizi wa habari hii **(alm1)**

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……...

c) Msimulizi anasema ya kwamba kupumzika kwake na kwa watu wengine kulikuwa tofauti, dhihirisha. **(alm2)**

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d) Kulingana na kifungu, utulivu anaoudai mwandishi ulikuwa na faida gani kwake **(alm2)**

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e) Fafanua hasara mbili za msimulizi kuhamia mjini **(alm2)**

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f) '…sasa niko tayari kwenda jijini kuitimiza wajibu wangu. Kwenda kuikabili kazi ngumu…'Msimulizi alimaanisha nini aliposema haya**.** **(alm2)**

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g) Eleza maana ya maneno yafuatayo kama yalivyotumika katika kifungu **(alm3)**

i) nastahiki

……

……...

ii) kuposwa

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……...

iii) ukomo

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……...

UFUPISHO.

<u>Soma makala yafuatayo kisha ujibu maswali</u>:

Mitihani imetumiwa siku nyingi kama kigezo cha kupima werevu wa mwanafunzi katika kutekeleza majukumu ya kiakili yenye kuhitaji stadi mbalimbali. Hii ni njia ya kuaminika na ni rahisi ambayo imetumiwa miaka mingi na watahini kukadiria uwezo wa mtu. Lakini wale wanaopinga mitihani wanasema kuwa mitihani haipimi kwa njia inayoaminika uwezo wa kiakili wa mwanafunzi, badala yake, mitihani inakadiri tu uwezo wa mwanafunzi wa kukadiria mambo kama kasuku kwa muda mfupi uliojaa vitisho na shinikizo.

Wasioithamini mitihani pia wanadai kuwa mitihani humpa mtahiniwa wasiwasi mwingi. Hii ni kwa sababu hadhi na umuhimu wa mitihani imekuzwa sana miongoni mwa watahiniwa na jamii zima kwa jumla. Mitihani ndio kigezo pekee kinachokadiria kufaulu au kutofaulu kwa mwanafunzi. Mustakabali wa mwanafunzi huamuliwa na mtihani. Watahini hawajali sana masuala mengine ambayo yanaweza kuathiri jinsi mwanafunzi anavyoweza kuufanya mtihani. Kwa mfano, mtahiniwa anaweza, kuwa mgonjwa, au pengine hakulala vizuri

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siku iliyotangulia mtihani. Haya yote ni masuala yanayoweza kumfanya mtahiniwa kutofanya vizuri katika mtihani.

Elimu nzuri humfundisha mwanafunzi kutumia akili. Lakini mfumo wa elimu unaopendelea mitihani haufanyi hivyo. Mfumo wa aina hiyo husisitiza kufundisha yale yale yanayopatikana katika mwongozo uliotolewa tu. Mwanafunzi hapewi motisha ili kusoma kwa mapana na marefu ili kupanua akili yake. Badala yake mwanafunzi hufungiwa kwenye uwanja finyu ambamo haruhusiwi kutoka. Mwalimu naye kadhalika hana uhuru wa kumfundisha mwanafunzi kile anachofikiria kuwa muhimu katika maisha. Badala yake jukumu kubwa analoachiwa mwalimu huwa ni kumpa mwanafunzi mbinu za kukujibu maswali na kupita mtihani.

Ingawa wanaoitetea mitihani hudai kuwa matokeo ya mitihani ni ya kuaminika kwa sababu husahihishwa na watu wasiowajua watahiniwa, lakini ni vizuri pia kukumbuka kuwa watahini ni binadamu tu. Binadamu huchoka, huhisi njaa na zaidi ya yote anaweza kufanya makosa. Licha ya hayo yote, watahini hutakiwa kusahihisha rundo kubwa la karatasi, kwa muda mfupi. Mjadala uliopo kati ya wanaopendelea mitihani na wale wasiopendelea watukumbusha kuwa kuna haja kubwa ya kuendelea kuboresha mfumo wa mitihani ili uweze kukadiria kwa yakini uwezo wa kiakili wa mtahiniwa.

Maswali.

a) Fupisha aya ya kwanza na ya pili. (maneno 60) **(alm9)**

Matayarisho.

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Jibu.

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b) Fupisha aya ya tatu na ya nne. (maneno 50) **(alm6)**
Matayarisho.

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Jibu.

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3.MATUMIZI YA LUGHA [ALAMA 40]

a) Andika neno linaloafiki maelezo haya **(alm1)**
kipua ghuna cha kaakaa laini, irabu ya chini kati, kimadende ghuna cha ufizi, irabu ya chini kati

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b) Bainisha mofimu katika neno lifuatalo **(alm3)**
Walijisomea

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c) Tunga sentensi ulizi ukitumia kiwakilishi nafsi ambata nafsi ya tatu wingi **(alm2)**

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d) Andika vinyume vya maneno yaliypigiwa mstari **(alm2)**
Alipofika nilimlaki

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e) Changanua sentensi ifuatayo kwa kielezo cha visanduku. **[alm4]**
Mkulima aliyepanda mbegu shambani amevuna mazao mengi sana.

f) Geuza sentensi ifuatayo ukitumia 'O' rejeshi katika hali ya mazoea. **[alm2]**
Mwanafunzi ambaye alirekebishwa alibadili mwenendo wake.

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g) Yakinisha katika wingi **[alm2]**
Usiposoma kwa bidii hutapita mtihani wako.

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h) Eleza matumizi ya kiambishi –ki-katika sentensi ifuatayo **(alm2)**
Ukimtembelea kesho utampata akisoma *Bembea ya Maisha*.

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i) Andika kisawe kimoja kwa neno ulilopewa **(alm1)**
ukuta

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j. Andika upya sentensi hii ukianza kwa yambwa tendewa **(alm2)**
Otieno alimbebea Musa mkoba wa Amina

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k) Akifisha kifungu hiki;- **(alm4)**
Mungu wangu ona ulivyojihini kwa kutosikiliza mawaidha chirchir alitamka

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l) Tunga sentensi ukitumia vivumishi vya pekee kudhihirisha maana ya : **(alm2)**
(i) Kutobagua

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(ii) Kumiliki

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m)Tumia vitenzi vifuatavyo katika sentensi vikiwa katika hali ya kutendesha**.** **(alm2)**
(i) La

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(ii) Fa

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n) Tunga sentensi moja kuonyesha matumizi mawili ya **po** **(alm2)**

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o) Kwa kutolea mifano, onyesha miundo ya ngeli ya **KI-VI** **(alm2)**

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o) Tunga sentensi moja ili kubainisha kishazi huru na kishazi tegemezi. **(alm2)**

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p) Tunga sentensi moja kutofautisha maana ya **dhamini** na **thamini** **(alm2)**

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q) Unda nomino mbili kutokana na kitenzi **dhalimu** **(alm2)**

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r) Andika methali inayoafika maelezo haya: Usiharibu uhusiano wako na watu wengine ambao utahitaji msaada wao baadaye. **(alm1)**

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4. **ISIMU JAMII (ALAMA 10)**

'More Fire' anatuliza dimba lile taratibu kwenye gamba la kifua na kuligeresha....anapiga chenga moja ya maudhi, anakwenda....

a.Tambua sajili hii **(alm2)**

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b. Tambua sifa ambazo hubainisha sajili hii. **(alm8)**

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PROGRESSIVE STUDENTS FORM 3 HYBRID END TERM 1 SERIES 1 EXAMS

NAME: ……..

SCHOOL: ……..

DATE:…….. ADM NO: …… SIGNATURE:……

MATHEMATICS (121)

FORM THREE (3)

Time: 2 ½ Hours

Instructions to candidates.

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

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

(c) This paper consists of two sections: Section **I** and **II**.

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

(e) Show ***all*** the steps in your calculations, giving your answer at each stage in the space provided.

(f) Marks may be given for correct working even if the answer is wrong.

(g) Non-programmable silent electronic calculators and **KNEC** mathematical tables may be used, except where stated otherwise.

(h) ***Candidates should check the question paper to ascertain that no questions are missing.***

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

For examiner's use only

SECTION I

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

SECTION II

17	18	19	20	21	22	23	24	TOTAL

GRAND TOTAL	

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SECTION I (50 MARKS)

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

1. Evaluate without using tables or a calculator the value of $\frac{1.33\times0.15}{0.19\times0.0017}$ **(3mks)**

2. When a certain number is divided by 48, 72 or 100 the remainder is 3 in each case. Find the number. **(3mks)**

3. Using logarithm table evaluate $\sqrt[3]{\frac{849.6\times2.41}{3941}}$. **(4mks)**

4. A 890kg culvert is made of a hollow cylindrical material with outer radius of 76cm and an inner radius of 62cm. It crosses a road of width 3m. Determine the density of the material used in its construction in Kg/m^3 correct to one decimal place. **(3mks)**

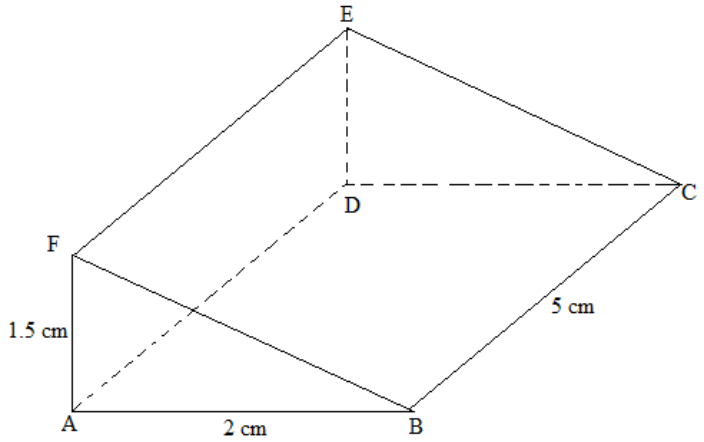
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5. Evaluate the value of x in $81^{x+1} + 3^{4x} = 246$ **(3mks)**

6. By correcting each number to one significant figure, approximate the value of 645 x 0.008. Hence calculate the percentage error arising from this approximation. **(3mks)**

7. Simplify the equation $\frac{4x^2-9}{2x^2+5x+3}$ **(3mks)**

8. The diagram below represents a prism whose Cross-section is a right angled triangle. Draw the net of the solid. **(3mks)**



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9. Given that A = 4 + √2 and B = 2 + √ 2, rationalize the denominator in A/B. Hence evaluate A/B without using calculators when √2 = 1.4142. Give your answer to 3 d.p. **(4mks)**

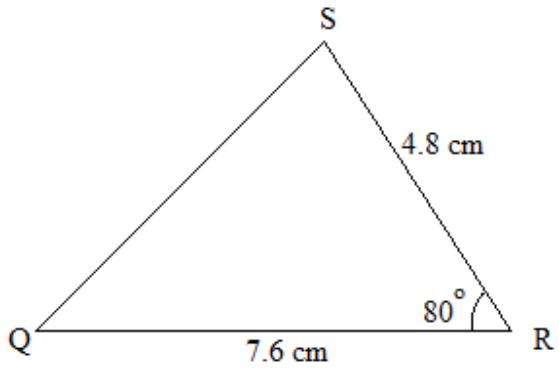
10. During an annual general meeting at Elimu Mixed Day, goats and chicken were slaughtered. The number of heads for both chicken and goats were 45. The total number of legs were 100. Determine the exact number of goats and chicken slaughtered. **(3mks)**

11. The sum of interior angles of a polygon is 1440^0. Find the number of sides of the polygon and name the polygon. **(3mks)**

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12. Lines K whose equation is $2y - 6 = 4x$ is perpendicular to another line Q. Find the equation of line Q if it passes through point. (-2,7**).** **(3mks)**

13. The figure below is not drawn to scale.



Find correct to 1 decimal place;

(a) Length PQ. **(2mks)**

(b) Angle ABC **(2mks)**

14. Irene buys a printer on hire purchase. She pays a deposit of sh.4000 and 12 monthly installments of sh.1500 each. Calculate the cash price if a compound interest of 5% per month is charged on the amount borrowed. **(3mks)**

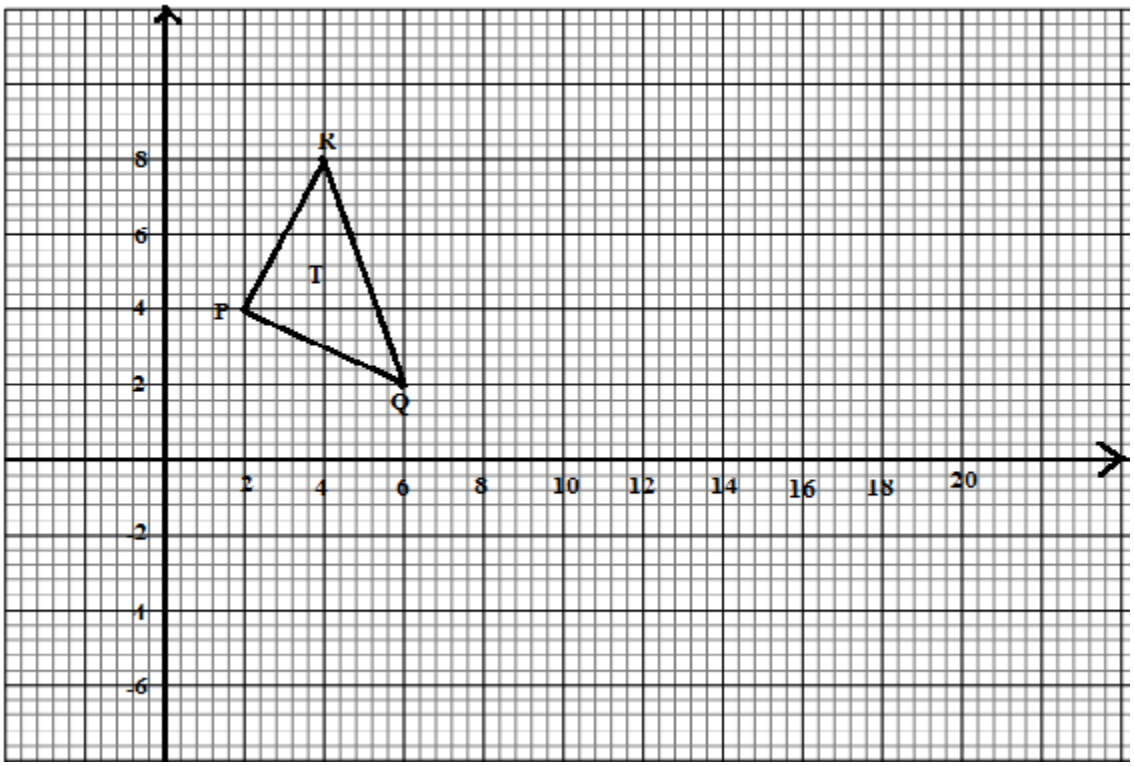
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15. Find the value of x in the equation

$$\frac{1}{2}\log_2(15 - 5x) - \log_2(3x - 2) - 2 = 0$$ **(2mks)**

16. The figure below shows triangle T with vertices P(2,4), Q(6,2) and R(4,8). It is mapped onto triangle T$^{/}$ with vertices P$^{/}$(10,0), Q$^{/}$(8,-4) and R$^{/}$(14, -2) by a rotation.

(a) Draw on the same axis T$^{/}$ the image of triangle T. **(1mk)**



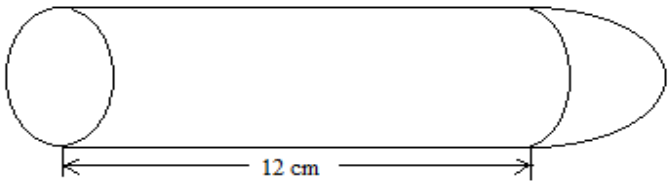
(b) Determine the center and angle of rotation. **(2mks)**

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SECTION II(50 marks)

Answer <u>only five</u> questions from this section in the spaces provided.

17. The diagram below shows a solid made of a hemisphere and a cylinder. The radius of both the cylinder and the hemisphere is 3cm. The length of the cylinder is 12cm.



a) i) Calculate the volume of the solid. **(3mks)**

ii) The solid fits in a box in the shape of a cuboid 15 cm by 6cm by 6cm. Calculate the volume of the box not occupied by the solid correct to four significant figures. **(2mks)**

b) i) Calculate the total surface area of the solid correct to four significant figures. **(3mks)**

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ii) The surface of the solid is to be painted. One millilitre of paint covers an area of $8cm^2$.The cost of paint is Ksh 900 per litre. Calculate the cost of the paint required. **(2mks)**

18. The table below shows the age groups and number of people who are HIV/ AIDS positive, in a certain sub county in Kenya.

Age group	10 – 19	20 – 29	30 – 39	40 – 49	50 – 59	60 – 69	70 – 79
No. of people	12	15	16	25	18	10	4

a) State the modal age group. **(1mk)**

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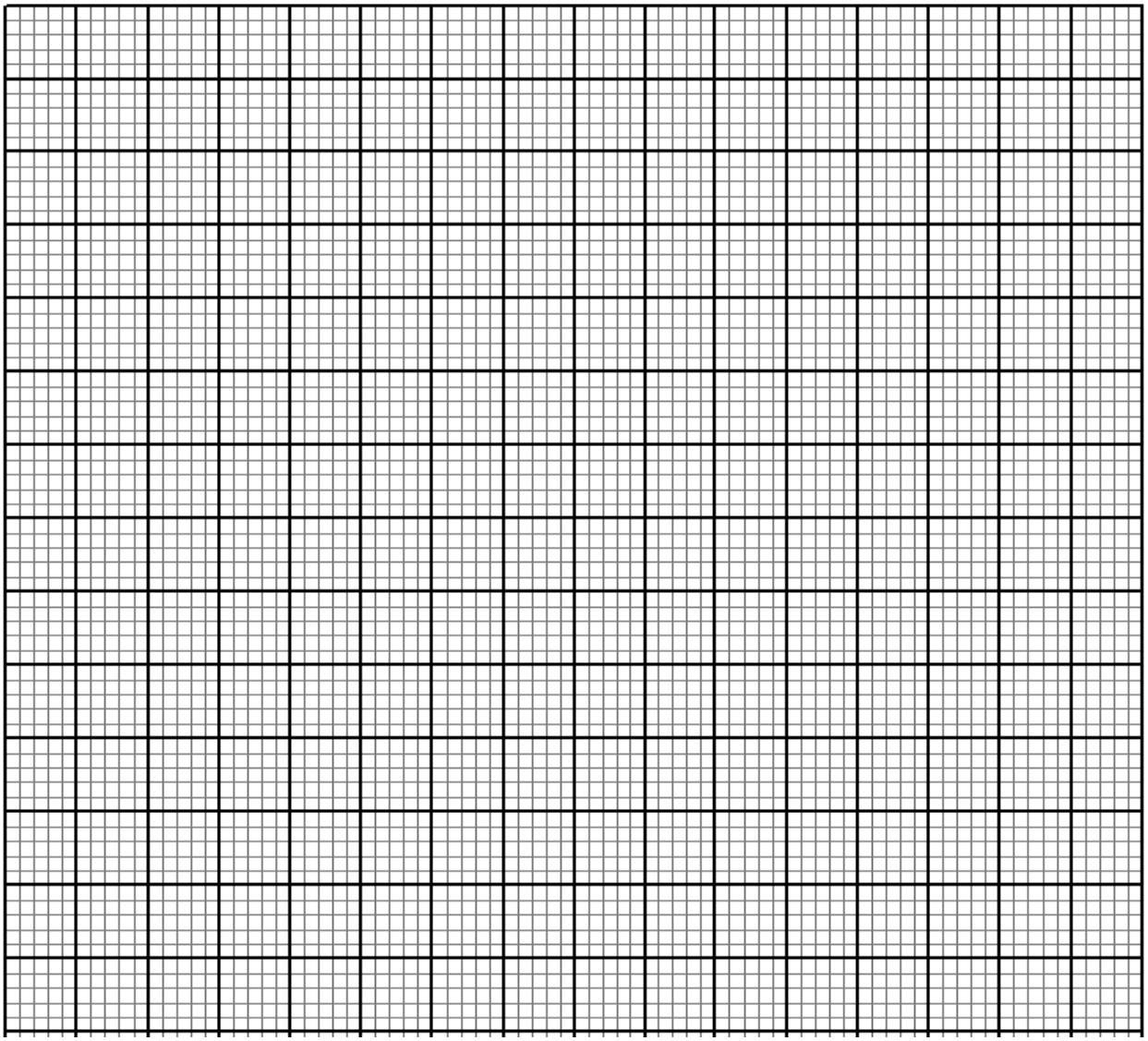
……...

b) Calculate the mean age of the people who are HIV/AIDS Positive. **(3mks)**

c) Calculate the median of the age group**.** **(3mks)**

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d) Draw on the grid provided a histogram to represent the above information. **(3mks)**



19. Two towns, Meru and Maua are 80km a part, Kimathi started cycling from Meru to Maua at 10:00 30a.m at an average speed of 40km/h. Mutuma started his journey from Maua to Meru at 10:30 a.m and travelled by car at an average speed of 60km/h.

(a) Calculate:

i) The time taken by Kimathi and Mutuma to meet. **(4mks)**

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ii) The distance from Meru when Kimathi and Mutuma met. **(3mks)**

iii) The time of the day when the two met. **(3mks)**

20. The table below shows the taxation rates for income earned.

Income in KShs. Per month	Tax rates (%)
Under 9681	10
From 18801 but under 27921	20
From 27921 but under 37041	25
37041 and above	30

In that year, Mr. Hamisi paid a net tax of KSh. 5,512 per month. He gets a house allowance of KShs. 10,000, medical allowance of KShs. 2400 and acting allowance of KShs. 2820 per month. He was entitled to a monthly personal relief of KShs. 162. He has a life insurance policy for which he pays a monthly premium of KSh. 1,500 and claims a relief at a rate of 10% of the premium paid per month. The following deductions also made every month.

(I) N.H.I.F. KSh. 320

(II) Co-operative society shares KSh. 6000

(III) Union dues KSh. 200

(a) Calculate Mr. Hamisi's monthly basic salary in KSh. **(7mks)**

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(b) Calculate his net monthly. **(3mks)**

21. Using a pair of compass and ruler only construct.

(a) Triangle PQR in which PQ =5cm∠QPR = 30^0 and ∠PQR=105^0. **(3mks)**

(b) A circle that passes through the vertices of the triangle PQR. Measure its radius. **(3mks)**

(c) The height of triangles PQR with PQ as the base. Measure the height. **(2mks)**

(d) Determine the area of the circle that has outsides the triangle correct to 2 decimal places. **(2mks)**

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22. Members of a group decides to raise k£ 100 towards a charity. Five of them were unable to contribute. Each of the rest had therefore to pay k£ 1 more, inorder to raise the same amount.

a) If the original number of member was *x*, writes downs :

i) An expression of how much each was originally to contribute. **(1mk)**

ii) Two distinct expressions of how much each contributed after the five pulled out. **(2mks)**

b) Calculate the value of *x*. **(3mks)**

c) Solve the equation $\frac{y+3}{24} = \frac{1}{y-2}$ **(4mks)**

23. The equation of a straight line L_1 is given as $3x + 2y = 12$. Another line L_2 is perpendicular to L_1 at (-2,9).

(a) Find the equation of L_2 in the form $y = mx + c$ where m and c are constants. **(3mks)**

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(b) Another line L_3 is parallel to L_1 and passes through point (-4,-1). Find:

(I) The equation of L_2 in the form ax + by = c where a, b and c are integers. **(2mks)**

(II) The x and y intercepts of L_3 **(2mks)**

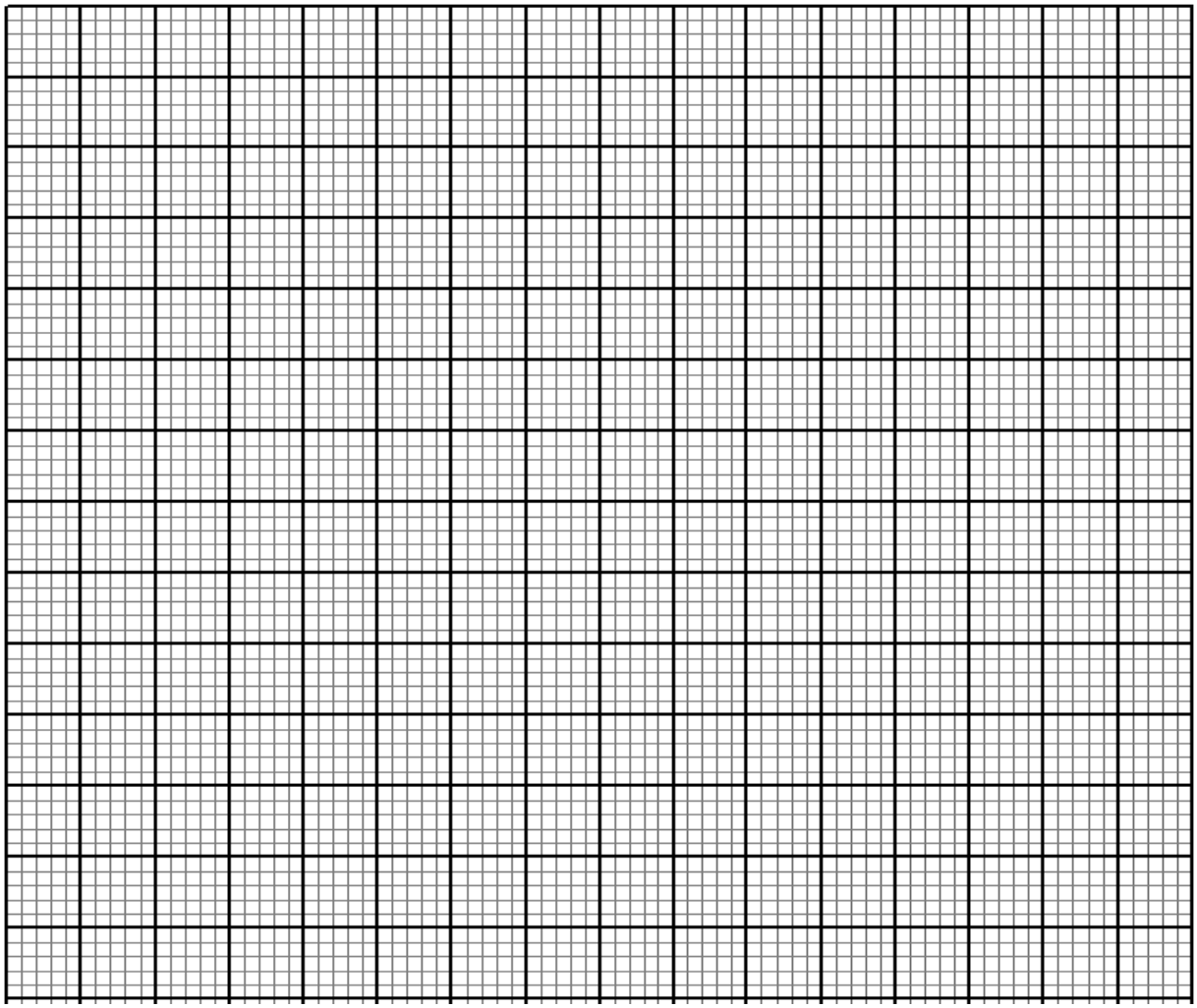
(III) The point of intersection between L_2 and L_3 **(3mks)**

24. Complete the table below for $y=2\sin\Theta^o + 1$ and $y=3\cos(\Theta + 30)^o$ **(4mks)**

Θ^o	0^o	30^o	60^o	90^o	120^o	150^o	180^o	210^o	240^o
$2\sin\Theta^o + 1$					2.7		1.0		-0.7
$3\cos(\Theta + 30)^o$							-2.6		0

Draw the graph of $y=2\sin\Theta^o + 1$ and $y=3\cos(\Theta + 30)^o$ for $0^o<\Theta<240^o$ on the same axes. **(4mks)**

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Find the values of Θ for which the following equation is true**.** **(2mks)**

$2\sin\Theta + 1 = 3\cos(\Theta + 30)^{o}$

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PROGRESSIVE STUDENTS FORM 3 HYBRID END TERM 1 SERIES 1 EXAMS

NAME: ……..

SCHOOL: ……..

DATE:…….. ADM NO: …… SIGNATURE:……

PHYSICS (232)

FORM THREE (3)

Time: 2 *Hours*

Instructions to candidates

- This paper consists of two sections ***A*** and ***B***.
- Answer **all** the questions in the two sections in the spaces provided after each question
- All working **must** be clearly shown.
- Electronic calculators, mathematical tables may be used.
- All numerical answers **should be expressed** in the **decimal** notations.
- You may use the following constants:
- 'g' as $10m/s^2$
- $\pi = \frac{22}{7}$

For Examiner use only

SECTION	QUESTION	MAX MARKS	ANDIDATE'S SCO
A	1 – 13	25	
	14	11	
	15	11	
	16	11	
	17	11	
	18	11	
	TOTAL	80	

SECTION A (25 MARKS)

1. Name two types of forces which can act between objects without contact. **(2mks)**

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2. An astronaut is on the moon. He drops a hammer from a height of 3.2m and it takes 2.0s to hit the lunar landscape. What is the acceleration due to gravity of the moon? **(3mks)**

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3. Jane arranged the following set-up in an attempt to determine the diameter of a cylindrical test- tube. The average length of the closely packed coils between points A and B is 77 cm. Determine the diameter of the test-tube. **(2mks)**

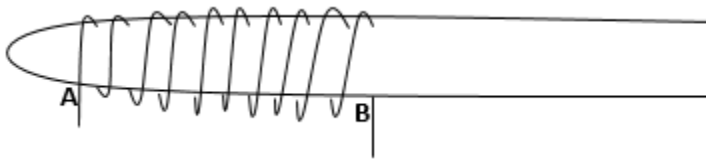


Figure 1

4. Why is it that boiling is not used for sterilization of clinical thermometer? **(2mks)**

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5. The thickness of an object was recorded in SI unit as $0.20 \times 10^{-3}m$. Name the instrument that would be most suitable for measuring the thickness of the object. **(1mk)**

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6. The figure below shows beaker containing water at 0^0C. The beaker is placed on a bench as shown below.

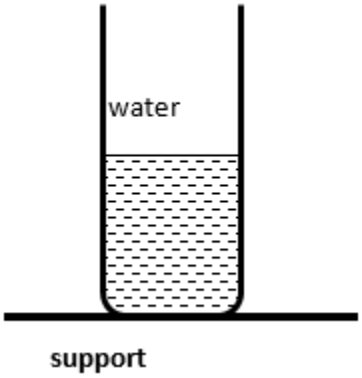


Figure 2

State and explain the changes in stability of beaker when the water freezes **(2mks)**

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7. State Bernoulli's principle. **(1mk)**

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8. The figure below shows a pith ball in a flask. When a jet of air is blown over the mouth of the flask as shown, the pith ball is observed to rise from the bottom. Explain **(2mks)**

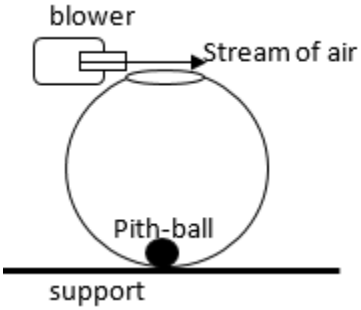


Figure 3

9. Figure 4 shows two cylinders of different cross-sectional areas connected with a tube. The cylinders contain an incompressible fluid and are fitted with pistons of cross-sectional areas 4 cm^2 and 24 cm^2.

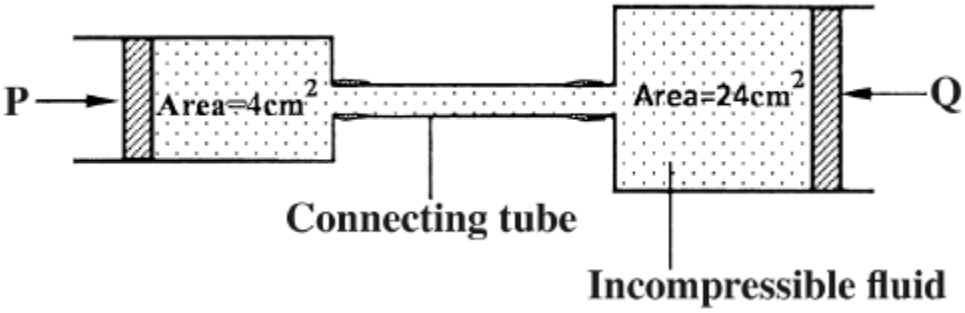


Figure 4

Opposing forces P and Q are applied to the pistons such that the pistons do not move. If the pressure on the smaller piston is 5 N/cm^2, determine the force, Q **(3mks)**

10. Water wets a glass surface, but mercury does not. Explain **(2mks)**

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11. Give a reason why water is not suitable as a thermometric liquid **(1mk)**

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12. Distinguish between speed and velocity **(1mk)**

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13. A form one did the set-up shown below using a glass test-tube to investigate thermal conductivity of liquids using water at 25^0C.

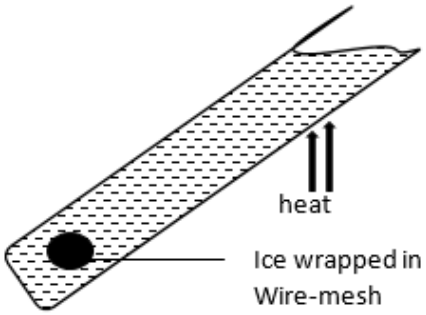


Figure 5

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

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ii. Suggest the function of the wire-mesh **(1mk)**

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SECTION B (55 MARKS)

14.

a) A Vernier scale has a negative zero-error of 0.2mm. If the actual measurement of diameter of a cylindrical object is 2.50 cm. on the space below, draw the reading of the Vernier scale. **(2mks)**

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b) The figure 6 below shows an experimental set up for estimating the diameter of an oil molecule.

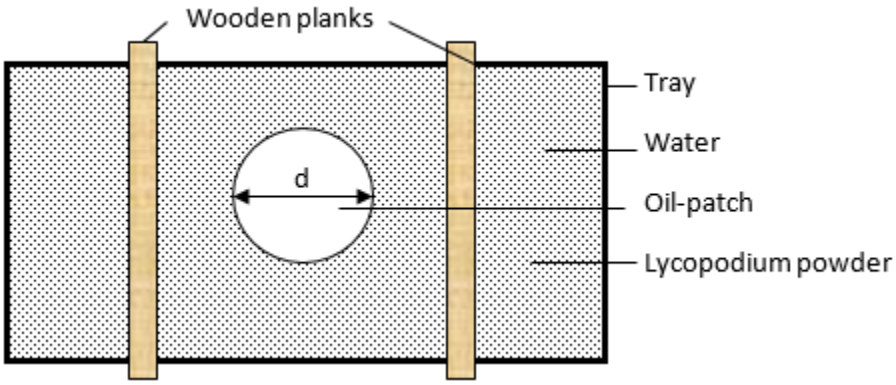


Figure 6

i.Describe how the oil patch is formed **(3Mks)**

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ii.In this experiment (above) the diameter 'd' of the oil patch was measured to be 21cm for an oil drop of radius 0.28mm.

I.Determine the diameter of the oil molecule. **(3Mks)**

II. State any two assumptions made in calculating the diameter of the oil molecule. **(2Mks)**

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c) State the function of the lycopodium powder in this experiment **(1Mk)**

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15.

Define the following terms as used in the study of motion of objects:

a) Terminal velocity **(1mk)**

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b) Acceleration **(1mk)**

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c) A ball is thrown horizontally from the top of a vertical tower and strike the ground at point 50m from the bottom of the tower given that the height of the tower is 45m, determine the;

i. Time taken by the ball to hit the ground. **(3mks)**

ii. The initial horizontal velocity of the ball. **(3mks)**

iii. Vertical velocity of the ball just before striking the ground **(3mks)**

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16.

a) state Newton's second law of motion **(1mk)**

……

……

……...

b) Define 'momentum' as used in motion of bodies **(1mk)**

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……...

c) A bullet of mass 40g is fired from a gun of mass 30kg and exits the muzzle at $300ms^{-1}$. The bullet travels horizontally to hit a stationary wooden block 30m away after 0.05 seconds. Determine, the recoil velocity of the gun **(3mks)**

d) The graph below is the relationship between force and time when a foot-ball initially at rest is kicked from the penalty spot. The ball moves at a velocity of 50 m/s immediately after the impact.

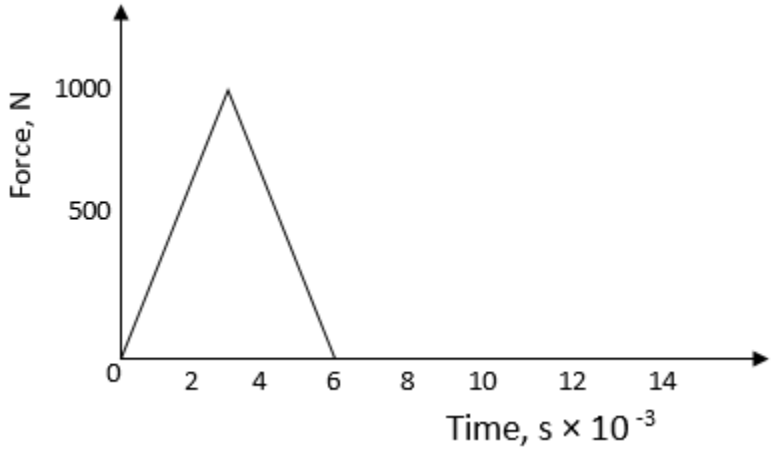


Figure 7

Determine:

i.The impulse on the ball **(3mks)**

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ii. The mass of the ball **(3mks)**

17.

a) State the principle of moments **(1mk)**

……

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b)

i.It is easier to loosen a bolt using a spanner of longer handle than one with a shorter handle. Explain **(1mk)**

ii. Explain the meaning of 'anti-parallel forces'and state one application of the anti-parallel forces **(2mks)**

c) The figure below is a triangular table-top.

i.Determine and label its Centre of gravity. **(2mks)**

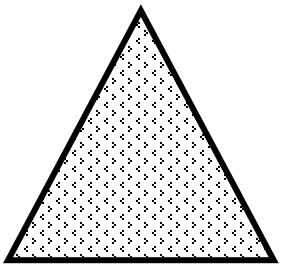


Figure 8

ii. State two factors that affect the turning effect of a force on a body **(2mks)**

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d) A uniform rod 4m and of mass 2 kg is pivoted 1m from one end and balanced horizontally by a string attached near the other end. Find the position where a mass of 5kg should be placed on the rod to make the rod remains horizontal and tension in the string is zero. **(3mks)**

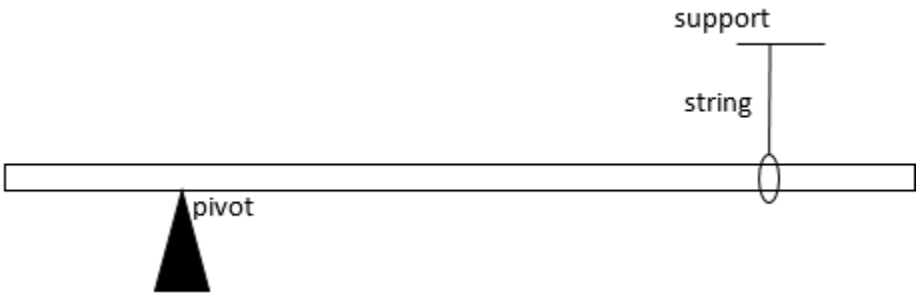


Figure 9

18.

a) Explain the meaning of 'relative density' of a substance **(1mk)**

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b) Give the reason why a density bottle is more accurate than a measuring cylinder when used to measure volume of liquids. **(1mk)**

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c) State two precautions taken when using a density bottle. **(2mks)**

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d) A form one student wanted to determine the density of copper. She wrote the following procedure: Study it and answer the questions that follow.

- Measure the mass m_1 (g) of a clean dry empty density bottle
- Fill the bottle partly with copper turnings and measure the mass m_2(g)
- Fill the bottle with water up to the neck and measure its mass m_3(g)
- Empty the bottle and rinse it.
- Fill it with water and replace the stopper. Measure the mass m_4(g) of the bottle filled with water.

Write an expression for:

i.Volume of the bottle **(2mks)**

ii. Mass of copper turnings **(1mk)**

iii. Volume of copper turnings. **(2mks)**

iv. Density of copper. **(2mks)**

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