PROGRESSIVE STUDENTS F2 MID TERM 3 SERIES 1 EXAMS *(14 SUBJECTS TESTED)*



PROGRESSIVE STUDENTS
FORM TWO
MID TERM 3 SERIES 1 EXAMS

Prefer Calling Amobi Group of Examiners @

0743 333 000 or 0706 851 439

For Marking Schemes

***N/B** In Response to the Huge Costs Associated in Coming Up with Such/Similar Resources Regularly, We inform us All, MARKING SCHEMES ARE NOT FREE OF CHARGE. However Similar QUESTIONS, Inform of soft Copies, are Absolutely FREE to Anybody/Everybody. Hence NOT FOR SALE by Amobi Group of Examiners.*

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**

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

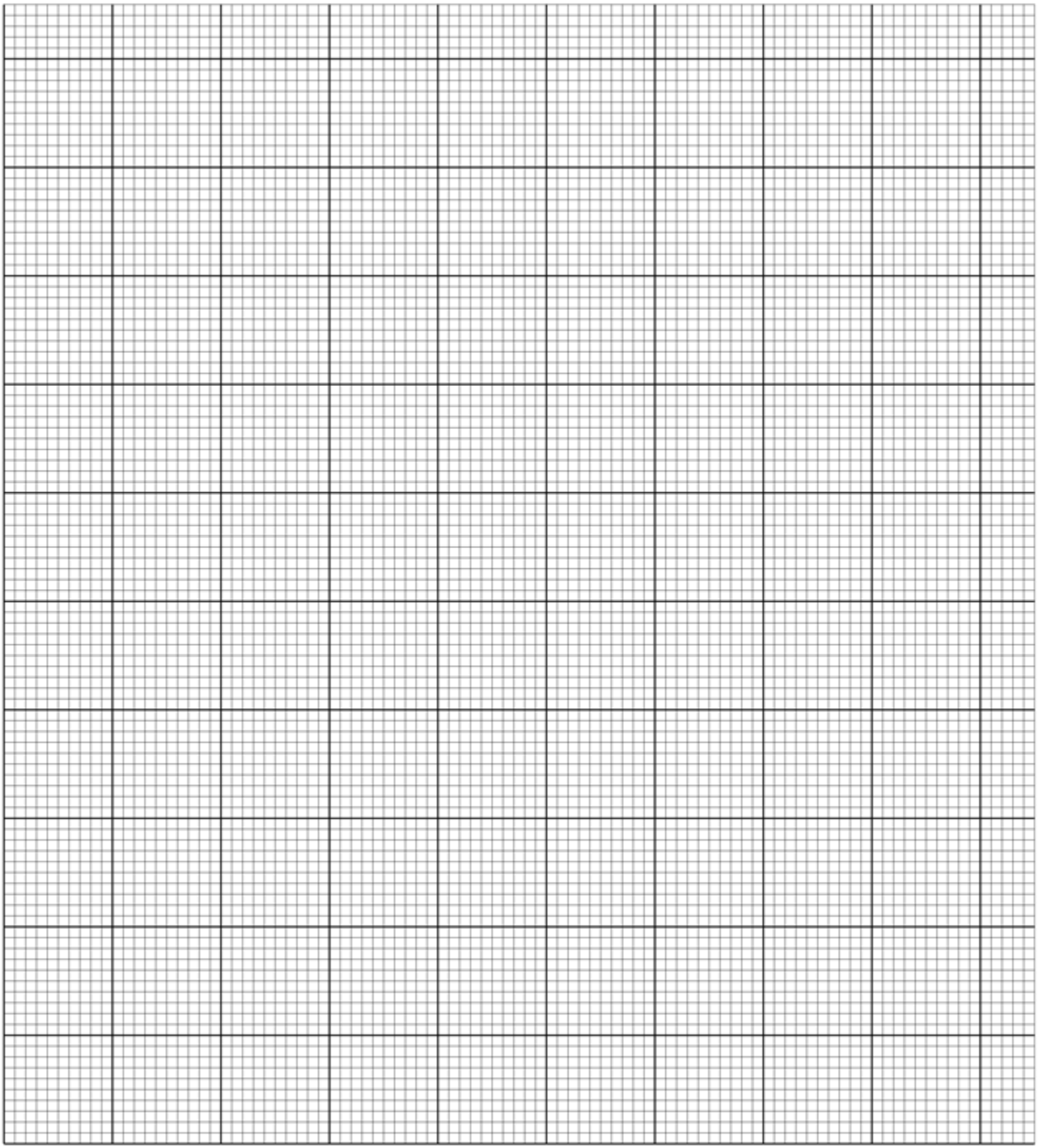
Amobi Group Of Examiners

Call Us @

0743 333 000 or 0706 851 439

CALL 0743 333 000 OR 0706 851 439

- Mid/End Term, Pre/Mock Exams
- K.C.S.E Prediction/Forecast Exams
- F1-F4 All Subjects Notes/Topical Qsns
- Updated Schemes of Work/Syllabus
- Acted Set Books Videos/ Guides
- Set Books Essays/Excerpts Qsns
- Past K.C.S.E Papers & Holiday Assignments
- 70 Biology Graphical/Essays Qsns
- 70 Biology Pictorial Practical Qsns
- Poetry & Ushairi Qsns.... e.t.c



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

PROGRESSIVE STUDENTS FORM TWO
MID TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

ADM NO: ……...……. SIGN:……..……..… DATE: ……..

443

AGRICULTURE

FORM TWO

TIME. 2 HOUR

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

INSTRUCTIONS TO CANDIDATES

a. Write your name, School, Adm. Number, Class and TEACHER in the space provided.

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

c. This paper consist of three sections A, B and C (l00mks)

d. Answer all the questions in sections A and B

e. Answer all questions from section C

f. All answers should be written in the spaces provided

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

For Examiners' Use Only.

Section	Questions	Maximum score	Candidates score
A	1-30		
B	31-36		
C	37		
	38		
Total Score	100		

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

SECTION A-(30 Marks)

ANSWER ALL QUESTIONS IN THIS SECTION

1. List **two** activities that make agriculture to be regarded as an art. **(1mk)**

……

……

……

……

2. Give the meaning of the following terms as used in agriculture. **(1mk)**

i) Crop pathology.

……

……

ii) Agricultural engineering.

……

……

3. List **two** characteristics of extensive farming system. **(lmk)**

……

……

……

……

4. List **two** benefits of practicing mixed farming. **(1mk)**

……

……

……

……

5. State **two** limitations of practicing shifting cultivation. **(lmk)**

……

……

……

……

6. State **two** factors that determine the number of times secondary cultivation is done. **(lmk)**

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

……

……

7. Give **one** reason why each of the following tertiary operations is carried out.

a) Rolling. **(½mk)**

……

……

b) Levelling. **(1/2mk)**

……

……

8. Give **two** reasons for carrying out minimum tilage. **(lmk)**

……

……

……

……

9. Give **two** reasons for treating water before use. **(lmk)**

……

……

……

……

10. Give **two** reasons why farmers choose seeds over vegetative materials during planting. **(1mks)**

……

……

……

……

11. Define the following terms as used in crop production.

a) Intercropping. **(½ mk)**

……

……

b) Mixed cropping. **(½mk)**

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

12. Give the name of the young one of the following livestock animals **(1Mk)**

Rabbit-

……

……

Goat

……

……

13. State **two** importance of keeping livestock healthy. **(1Mk)**

……

……

……

……

14. State **two** conditions that necessitate the handling of farm animals **(1Mks)**

……

……

……

……..

15. Give **two** characteristics of an effective acaricide? **(1Mks)**

……

……

……

……

16. Describe **two** uses of water in the animal's body **(1Mk)**

……

……

……

……

17. Name **two** complementary tools that are used together in livestock production. **(1Mk)**

……

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

18. State **two** reasons of maintaining farm tools **(1Mk)**

……

……

……

……

19. State **two** conditions when opportunity cost is zero in dairy production. **(1Mk)**

……

……

……

……

20. State the importance of the following in manure preparation using the pit method. **(1Mk)**

a) Ash

……

……

b) Soil

……

……

21 Name **two** aspects of light that affect agricultural production **(1Mk)**

……

……

……

……

22. State **two** advantages of overhead irrigation **(1Mk)**

……

……

……

……

23. Name **two** types of soil structures. **(1Mk)**

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

24. Name the intermediate host of the following parasites

i) Tapeworm

……

ii) Liver-fluke **(1Mk)**

……

25. State **two** characteristics of nitrogenous fertilizers. **(1Mk)**

……

……

……

26. State **two** methods of breaking seed dormancy **(1Mk)**

……

……

……

27. State **two** characteristics of a good grain store **(lmk)**

……

……

……

28. Outline **two** soil constituents **(lmk)**

……

……

……

29. State **two** characteristics of plants used as green manure **(lmk)**

……

……

……

……

30. Outline **four** reasons of practicing minimum tillage **(lmk)**

……

……

……

……

……

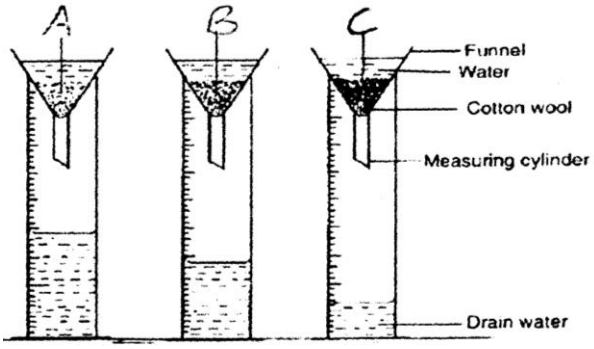
……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

SECTION B- (30 Marks)

ANSWER ALL QUESTIONS IN THIS SECTION.

31. The diagrams below show an experiment to investigate a soil property. Study the diagram carefully and answer the questions that follow.



i) State the aim of the experiment. **(1mk)**

……

……

ii) If the volume of water illustrated in the measuring cylinders were observed after one hour, identify the soil samples labelled A and B. **(1Mk)**

……

……

……

iii) State **three** ways in which the soil structure of the sample labelled C can be improved. **(3Mks)**

……

……

……

……

32. Below are two diagrams of Irish potato tubers after being subjected to some conditions before planting.



D1: Before subjecting to the conditions.



D2: After subjecting to the conditions

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

(i) Which process of potato treatment is illustrated above? **(1mk)**

……

……

(ii) State **two** conditions necessary for the above process. **(2mks)**

……

……

……

……

(iii) Give **two** reasons for carrying out the above practice. **(2mks)**

……

……

……

……

33. A farmer is advised to top-dress a crop with a fertilizer NPK 20:10:10.

a) What do the values 20:,10:10: stand for? **(3Mks)**

20: ……

10: ……

10: ……

b) Classify the fertilizer according to the nutrients present. **(1Mk)**

……

……

c) If 400kgs of the fertilizer was used to top-dress, showing your working, calculate the amount of nitrogen applied. **(1Mks)**

34. A farmer wanted to prepare a 200kg f calf rearing ration containing 20% DCP.Using the Pearson's Square Method, calculate the amount of Maize containing 10% DCP and Sunflower containing 35% DCP the farmer would need to prepare the ration. **(5mrks)**

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

(Show your working)

35. Diagram Q and R below illustrated livestock deficiency diseases, study the diagrams and answer the questions that follow. **(2Mks)**



Q



R

a) Identify the disease in cattle with the symptoms shown in Q **(½Mks)**

……

……

b) Name the deficient nutrients in;

Q ……

R ……

c) List **two** symptoms of the disease illustrated in Q above **(2Mks)**

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

d) Name one method of controlling the disease illustrated in Q above. **(½Mks)**

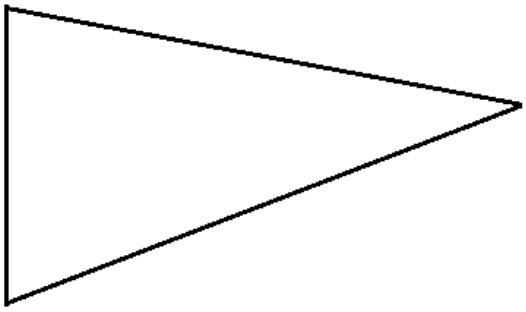
……

……

……

……

36. Study the diagram below and answer the questions that follow.



i) With a reason identify the type of cattle breed illustrated. **(2mks)**

……

……

……

……

ii) State three other ideal features of the above animal not visible in the illustration above. **(3Mks)**

……

……

……

……

SECTION C;

ANSWER ALL TWO QUESTIONS IN THIS SECTION

37.a) List **five** factors that are considered when choosing the type of irrigation to use in the farm. **(5mks)**

b) Explain **five** reasons for draining water-logged soils. **(5mks)**

c) Give **ten** uses of farm records. **(10mks)**

38.a) Explain **five** factors affecting the rooting of cuttings. **(5mks)**

b). Describe **five** methods that help to control livestock diseases. **(5mks)**

c). Describe the life cycle of a three host tick. **(10Mks)**

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

.....

.....

.....

PROGRESSIVE STUDENTS FORM TWO
MID TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

ADM NO: ……..……. SIGN:……..……..… DATE: ……..

BIOLOGY

FORM TWO

Time: 2½ Hours

INSTRUCTIONS

- All Questions are Compulsory
- Write your Answers in the Spaces Provided
- Wrong Spelling of Technical Terms shall be Penalized

Max Score	Student's Score
80	

1. State **one** similarity between parasitic and predatory modes of feeding. **(2mks)**

……

……

……

……

2.(a) Name the products formed during the light reaction of photosynthesis. **(1mk)**

……

……

……

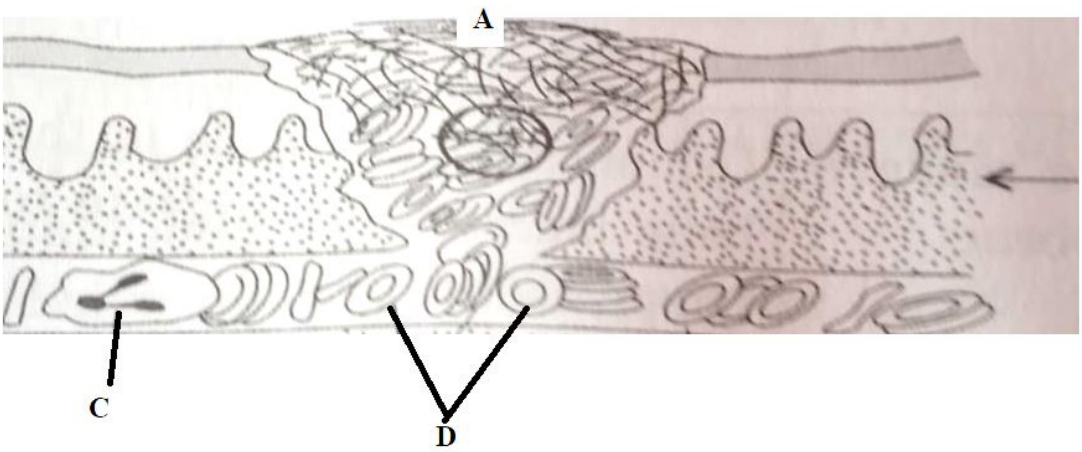
(b) Where does light independent stage of photosynthesis take place? **(1mk)**

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

3. The diagram below represent a section of blood vessel in human circulatory system.



(i) Identify structure labeled **C** and **D**.

C: …… **(1mk)**

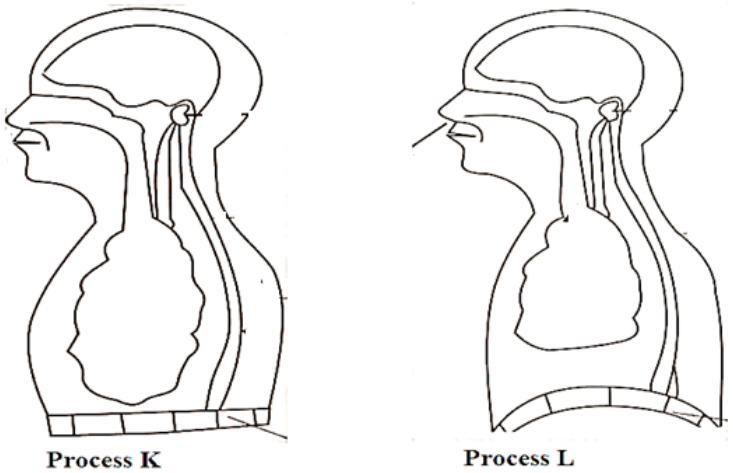
D: …… **(1mk)**

(ii) Give the name of the process that happens at part **A**. **(1mk)**

……

……

4. Study the image below and answer the questions that follow.



(a) Name the process represented by process **K** and **L**.

K: …… **(1mk)**

L: …… **(1mk)**

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

(b) Describe the events that leads to process **L** **(2mks)**

……

……

……

……

5. Define the following terms as used in biology.

(i) Binomial nomenclature. **(1mk)**

……

……

(ii) Taxonomy. **(1mk)**

……

……

6. Give reasons for the following:-

(a) Most leaves are thin with broad leaves. **(2mks)**

……

……

……

……

(b) A leaf cannot be tested for starch by adding iodine solution directly. **(1mk)**

……

……

……

(c) Plants will not photosynthesize in the dark. **(1mk)**

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

7. Complete the table below so as to obtain the correct food type being brocken down, the enzymes involved and the end products.

Food	**Enzyme**	**Product**
Starch		Maltose
	protease	Amino acids
lipid	Lipase	

(3mks)

8. The dental formula below was written by a student after observing a skull of an animal.

$$\frac{I\ 0}{3}\quad\frac{C\ 0}{1}\quad\frac{PM\ 3}{3}\quad\frac{M\ 3}{3}$$

The dental formula above has mistakes, **rewrite** it correctly. **(1mk)**

(i) How many teeth does the animal have. **(1mk)**

……

……

(ii) State the mode of feeding of the animal. **(1mk)**

……

……

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

……

……

……

(iv) Name the cells that forms the following tissues.

(a) Xylem **(2mks)**

……

……

……

(b) Phloem. **(2mks)**

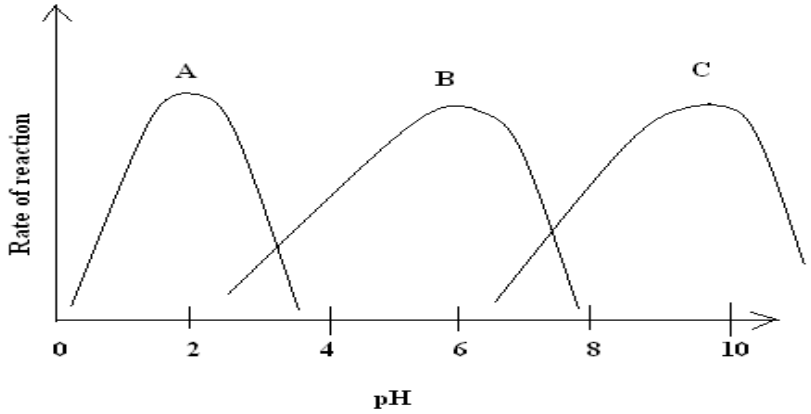
……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

9. The graphs below shows reactions of enzymes in different parts of the alimentary canal.



(i) Give appropriate examples of products of digestion that results from action of the enzymes represented by the following letters **(2mks)**

A:…… **(1mk)**

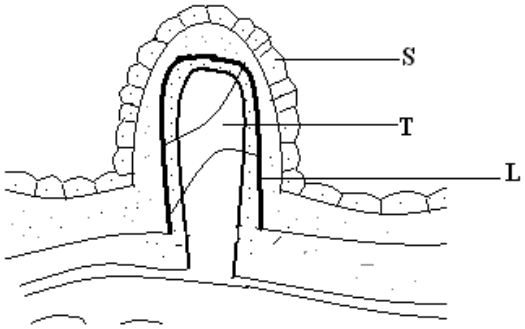
B: …….. **(1mk)**

(ii) Identify the substance that activateds the enzyme represented by substance D. **(1mk)**

……

……

10. The diagram below represents part of the ileum lining.



(a) Name the above structure. **(1mk)**

……

……

(b) Name the parts labeled S and L. **(2mks)**

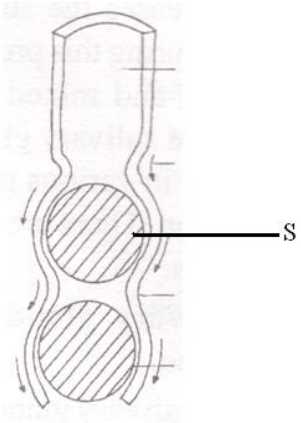
……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

11. The diagram below represents a stage in the digestion of food along gastrointestinal track.



(a) By what mode does the represented organism feed? **(1mk)**

……

……

……

(b) What is the name given to the:

(i) Wave of muscular contraction above. **(1mk)**

……

……

(ii) The substance named **S**. **(1mk)**

……

……

(c) Name the part of alimentary canal represented above. **(1mk)**

……

……

12. Explain **three** conditions necessary for aerobic respiration. **(3mks)**

……

……

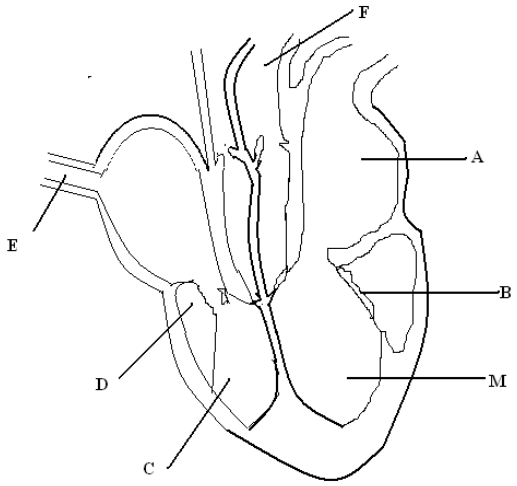
……

……

……..

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

12. The diagram below represents the structure of the mammalian heart. Study it and answer the questions that follow.



(a) What is the role of the part marked **B** in mammalian circulation **(1mk)**

……

……

……

(b) State **two** structural difference between the blood vessels marked **E** and **F** **(2mks)**

E	F

(c) Name the blood vessel that supplies the heart muscles with food and oxygen**.** **(1mk)**

……

……

13. Briefly, explain the role of the following in the immune system of animals.

(a) Lymphocytes **(1mk)**

……

……

(b) Antibodies **(1mk)**

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

(d) Phagocytes **(1mk)**

……

……

14. List down the rules of binomial nomenclature. **(2mks)**

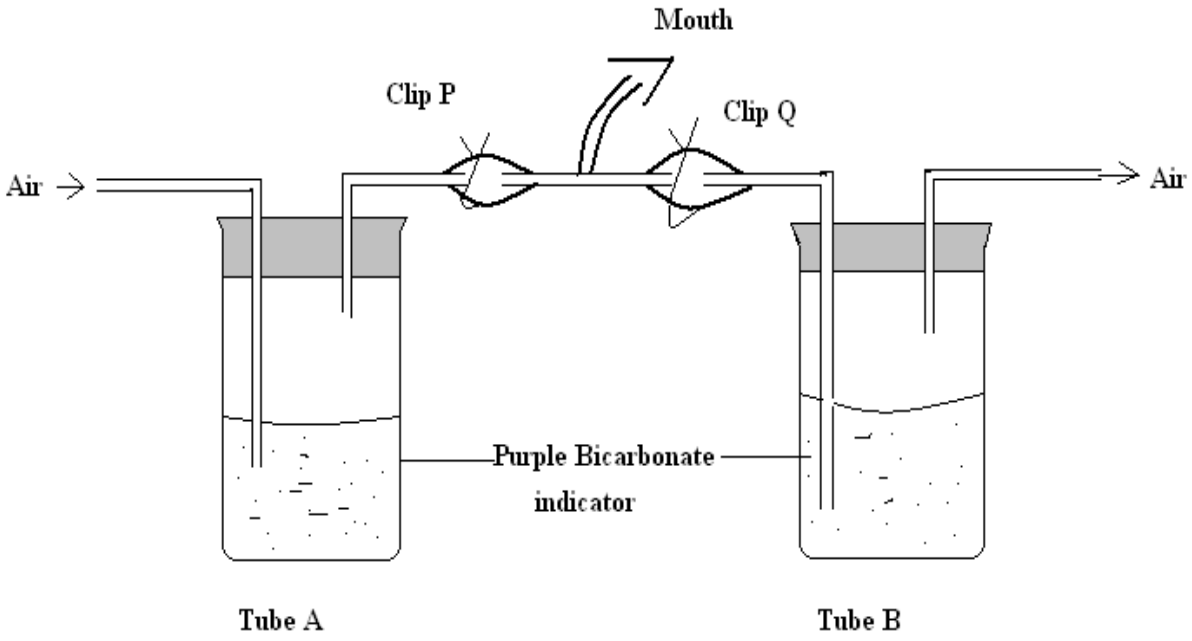
……

……

……

……

15. An experiment was set as shown below to compare the amount of carbon (IV) oxide in expired and inspired air.



(a) State the purpose of clip

(i) P **(1mk)**

……..

(ii) Q **(1mk)**

……

(b) Compare observations in tube A and B after experiment. Give reasons for your answer. **(4mks)**

……

……

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

(c) State **one** advantages of breathing through the nostrils other than mouth. **(1mk)**

……

……

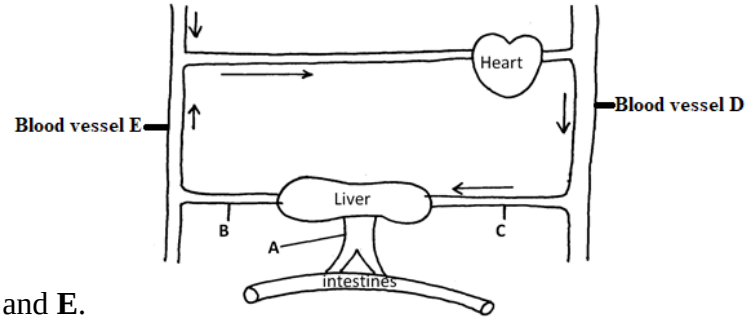
16. What do you understand by the term oxygen debt. **(2mks)**

……

……

……

17. The diagram below represents part of the mammalian blood circulatory system and some associated glands.



(a) Name the blood vessels **D** and **E**.

D: ……. **(1mk)**

E: ……. **(1mk)**

(b) Name the main components of the blood vessel labeled **A**. **(1mk)**

……

……

18. In a blood test, a drop of anti-A serum were added to two samples of blood. No agglutination occurred, what were the blood groups of the two samples**?** **(2mks)**

……

……

……

19. Give a reason why:

(a) The circulation fluid in insects lacks haemoglobin. **(1mk)**

……

……

(b) People living at high altitude have more red blood cells than those living at sea level. **(2mks)**

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

(c) Complete blood is only kept for about one month after it has been obtained from donor, but plasma may be kept much longer.

……

……

……

20. (i) A doctor working on a patient found that the patient had . $\frac{120}{90}$ mmHg What does the figure represent? **(1mk)**

……

……

(ii) Name **two** things that can led to increase of the value above. **(2mks)**

……

……

……

21.(i) Explain why proteins are absent in the urine of a healthy person. **(2mks)**

……

……

……

……

(ii) Give the term used to describe the presence of protein in urine and glucose.

Protein**:**…… **(1mk)**

Glucose**: ……..** **(1mk)**

22. Name **two** chemical solutions used in the Biuret's test in the order of application. **(2mks)**

……

……

……

……

23. Why does the blood of insects lack of pigment equivalent to haemoglobin? **(2mks)**

……

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

PROGRESSIVE STUDENTS FORM TWO
MID TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

ADM NO: ……..……. SIGN:……..……..… DATE: ……..

565/1

BUSINESS STUDIES

Time: 2 hours

INSTRUCTIONS

Answer ALL the questions in the spaces provided.

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

16	17	18	19	20	21	22	23	24	

1. Highlight four factors of production **(4mks)**

……

……

……

……

……

……

2. Define the term parastatals **(2mks)**

……

……

……

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

3. Highlight four sources of business idea **(4mks)**

……

……

……

……

……

……

4. Outline four advantages of enclosed office layout **(4mks)**

……

……

……

……

……

……

5. Highlight four characteristics of itinerant traders. **(4mks)**

……

……

……

……

……

……

6. Outline four essential elements of transport. **(4mks)**

……

……

……

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

7. Classify each of the following activities in its appropriate level of production. **(4mks)**

Activities	Level of production
i)Farming	
ii)Entertainment	
iii)Nursing	
iv)Road construction	

8. What are disadvantages of human porterage **(4mks)**

……

……

……

……

……

……

9. Name three modes of transport **(3mks)**

……

……

……

……

10. Highlight four characteristics of a bonded warehouse. **(4mks)**

……

……

……

……

……

……

11. Outline four disadvantages of face to face communication **(4mks)**

……

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

……

……

12. State the type of utility created in the following activities. **(4mks)**

Activity	Utility
i)Grinding maize	
ii)Storing maize	
iii)Miller transporting maize floor	
iv)Selling maize floor in a shop	

13. Highlight four factors to consider when choosing means of communication **(4mks)**

……

……

……

……

……

……

14. Highlight five Principles of co-operatives **(5mks)**

……

……

……

……

……

……

15. Differentiate between pure risk and speculative risk.

……

……

……

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

16. Identify sources of capital in sole proprietorship. **(4mks)**

……

……

……

……

……

……

17. State the principles described in the following statements. **(5mks)**

i) The insured should reveal all the relevant information about the subject matter whether asked for or not_____

ii) The wife may insure the life of her husband_____

iii) The damaged properties belongs to the insurer and not the insured. _____

iv) If one insures in two or more company on the same risk, all the insurers will indemnify the insured proportionately_____

v) There must be a very close relationship between the loss suffered and the risk insured against_____

18. Highlight four characteristics of general insurance. **(4mks)**

……

……

……

……

……

……

19. Explain five differences between a partnership and a public limited liability company **(10mks)**

……

……

……

……

……

……

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

……

……

……

20. Explain five methods of government involvement in business activities. **(10mks)**

……

……

……

……

……

……

……

……

……

……

……

……

21. Independence. Explain the disadvantages of trains that maybe associated with it **(10mks)**

……

……

……

……

……

……

……

……

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

PROGRESSIVE STUDENTS FORM TWO
MID TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

ADM NO: ……...……. SIGN:……..……..… DATE: ……..

CHEMISTRY

TIME: 2 HOURS

Kenya Certificate of Secondary Education (K.C.S.E.)
FORM 2
TERM 2

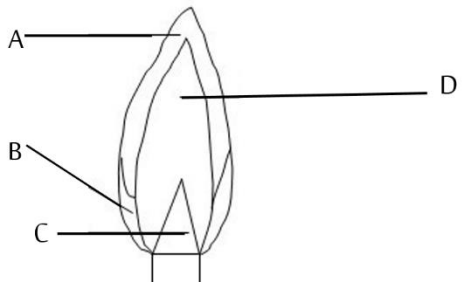
INSTRUCTIONS:

- *Write your **name** and **other details** on the space provided above*
- *Answer **all** the questions in the spaces provided for each question.*
- *All working **must** be clearly shown where necessary.*
- *Mathematical tables and silent non-programmable electronic calculators may be used.*

For Examiners Use Only

Questions	Total marks	Student's score
1 - 20	80	

1. Name the regions of the Bunsen burner flame in the diagram below.



A …… **(½ mark)**

B …… **(½ mark)**

C …… **.(½ mark)**

D …… **(½ mark)**

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

2. Using the table below, classify the substances as conductors or non-conductors of electricity. **(3mks)**

Substance	Conductor/Non-Conductor
Copper	
Rubber	
Aluminium	

3. Salts have many applications in daily life.

(a) Define a salt. **(1mk)**

……

……

(b) Give four types of salt. **(2mks)**

……

……

……

……

……

……

4. (a) Explain why alkali metals are more reactive than alkaline earth metals in the same period. **(2mks)**

……

……

……

……

(b) State the trend in boiling points of halogens down the group. **(1mk)**

……

……

……

5. Draw a set-up that can be used to separate water and kerosene mixture. **(3mks)**

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

6. Complete the table below with the properties of acids and bases. **(3mks)**

Properties of acids	Properties of bases
1.	1.
2.	2.
3.	3.

7. Magnesium reacts with dilute hydrochloric acid to produce a colourless gas Q and a colourless solution R.

(a) Name the colourless gas Q. **(1mk)**

……

……

(b) Give the observation made when:

(i) Magnesium is added to hydrochloric acid. **(1mk)**

……

……

(ii) Solution R is tested with red and blue litmus papers. **(1mk)**

……

……

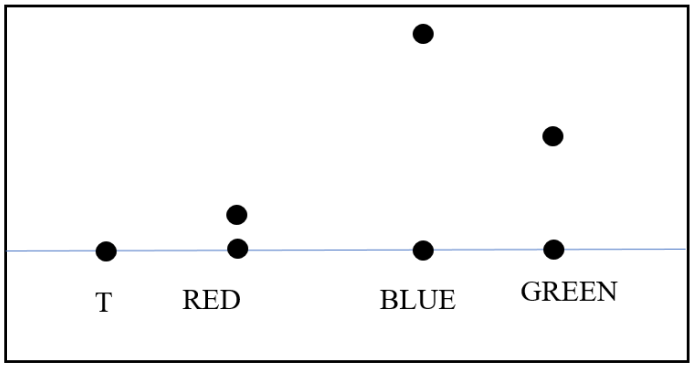
8. An ion of an element D can be represented as $^{24}_{12}D^{2+}$.

a) Draw the structure of the most stable ion. **(2mks)**

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

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

9. The figure below shows a paper chromatography for mixture T, red, blue and green dyes.



(a) Given that mixture **T** contains red and blue dyes only, **show on the diagram** the chromatogram of mixture **T**. **(2mks)**

……

……

……

……

(b) Which dye is most adsorbent on the chromatography paper? **(1mk)**

……

……

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

									A
					B				
	C			D			E		
	F								

(i) What name is given to the group of elements to which **C** and **F** belong? **(1mk)**

……

……

(ii) Which letter represents the element that is the least reactive? **(1mk)**

……

……

(iv) Write the formula of the compound formed when **element D** and oxygen gas react **(1mk)**

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

(vi) On the grid indicate with a tick the position of **element G** which is in the third period of the periodic table and forms G^{3-} ions. **(1mk)**

(v) Compare the atomic radii of elements C and E. Explain. **(2mks)**

……

……

……

……

(vi) Draw the dot (.) and cross (x) diagram for the compound formed between elements F and E. **(2mks)**

11. Substances can be classified as neutral, acids or bases. You are provided with vinegar, lemon juice, sugar solution, soap solution, lime water and potassium hydroxide.

(a) Describe an experiment that can be used to determine the pH values of the substances. **(3mks)**

……

……

……

……

……

……

(b) Give the pH values of each of the substances. **(3mks)**

……

……

……

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

12. Figure 1 shows a set-up used by a student to prepare dry chlorine gas in the laboratory.

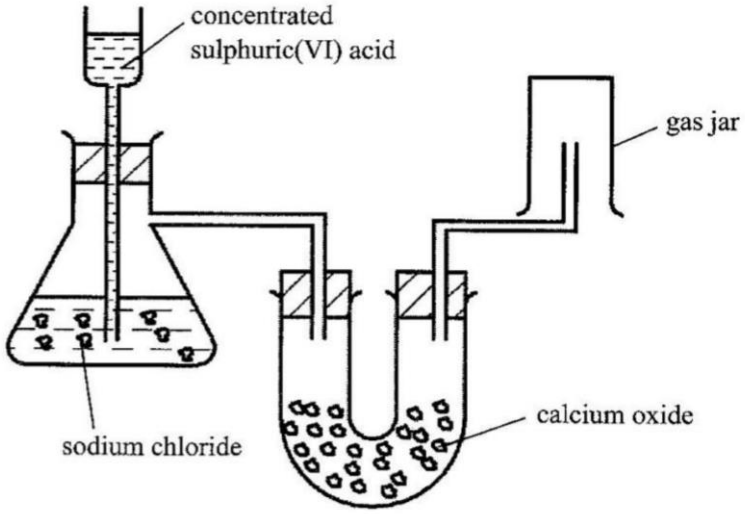


Figure 1

(a) Identify three mistakes in the set-up and give a reason for each. **(3mks)**

……

……

……

……

……

13. You are provided with the following: thermometer, boiling tube, beaker, Bunsen burner, pure substance **X** whose boiling point is about 80°C, water and any other apparatus that may be required. Draw a labelled diagram of the set-up that can be used to determine the melting point of **X**. **(3mks)**

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

14. The graph in **Figure 2** was obtained when a certain substance was heated and its temperature recorded at regular intervals.

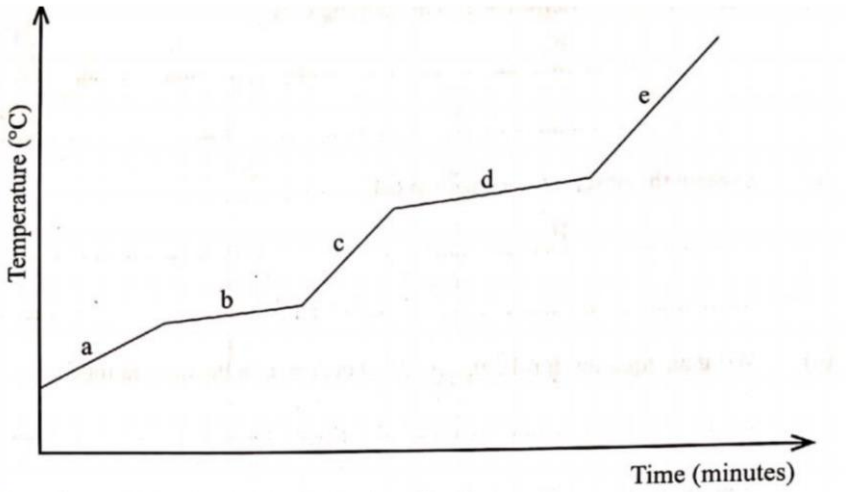


Figure 2

(a) Is the substance pure or impure? **(1mk)**

……

……

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

……

……

……

15. Describe how the magnesium chloride can be prepared in the laboratory starting with magnesium ribbon. **(3mks)**

……

……

……

……

……

……

16. Using reagents provided only, explain how you could prepare solid Zinc carbonate.

- Zinc powder **(3mks)**
- Nitric (V) acid (dilute)
- Distilled water
- Solid sodium carbonate

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

……

……

……

17. Letters in the table below represent certain elements. Atomic numbers of the elements are given. (The letters are not the actual symbols of the elements.)

Element	G	E	H	F
Atomic number	9	10	11	12

(a) Select an element which is:

(i) A noble gas **(1mk)**

……

(ii) An alkali metal **(1mk)**

……

(b) Select **two** elements which are in the same period. Give a reason **(1mk)**

……

……

……

……

(c) Select the element with the largest atomic radius. **(1mk)**

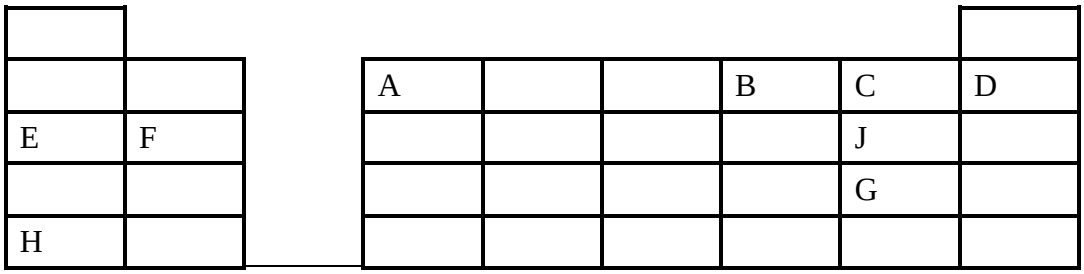
……

……

……

……

18. The grid below shows part of the periodic table. Study it and answer the questions that follow. The letters are not the actual symbols of the elements.



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

(a) Give the name of the family to which element D belongs. **(1mk)**

……

……

……

(b) Identify an element which forms a stable trivalent cation **(1mk)**

……

……

(c) Give the formula of:

(i) The compound formed between A and B **(1mk)**

……

(ii) The sulphate of F **(1mk)**

……

(d) Using dot(.) and cross(x) diagram, show the bonding in a molecule of **B**. **(2mks)**

(e) Compare the atomic radii of elements **C** and **J**. Explain. **(2mks)**

……

……

……

……

(f) Select the element that has the lowest ionization energy. Explain. **(1mk)**

……

……

……

……

(g) Identify element **G**. **(1mk)**

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

(h) Compare the boiling points of elements **G** and **E**. **(2mks)**

……

……

……

……

19. Study the table below and answer the questions that follow.

(The letters are not the actual symbols of the elements)

Element	B	C	D	E	F
Atomic number	18	5	3	5	20
Mass number	40	10	7	11	40

(i) Which two letters represent the same elements? Give reason. **(2mks)**

……

……

……

……

(ii) Give the number of neutrons in an atom of element **D**. (Show your working) **(1mk)**

……

……

……

20. Study the table below and answer the questions that follow.

substance	M.pt ^{o}C	B.pt ^{o}C	Electrical conductivity in solid state	Electrical conductivity in molten state
J	365	463	Poor	Poor
K	1323	2773	Good	Good
L	1046	1680	Poor	Good
M	2156	2776	Poor	Poor

(a) Place J, K, L and M in the appropriate categories from the following:

i. Metallic solid _____ **(1mk)**

ii. Giant covalent structure solid _____ **(1mk)**

iii. Ionic solid _____ **(1mk)**

iv. Simple molecular solid_____ **(1mk)**

(b) Which substance can be used to make overhead cables? **(1mk)**

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

PROGRESSIVE STUDENTS FORM TWO
MID TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

ADM NO: ……..……. SIGN:……..……..… DATE: ……..

FORM TWO EXAMINATION

CODE: 451/1 SUBJECT: COMPUTER STUDIES

TIME 2-Hours

INSTRUCTION TO CANDIDATES

Write your **name** and **admission** number in the spaces provided.

Answer ALL the Questions

All answers should be **written** in the spaces provided

FOR EXAMINERS USE ONLY

QUESTION	SCORE
1 – 28	

1. Explain the term label as used in spreadsheet. **(2mks)**

……

……

……

2. State **three** reasons why laptops are more expensive than desktop computers. **(3mks)**

……

……

……

……

3. The following is list of computer output devices.

Speaker, plotter, screen projector, touch screen, LCD, printer

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

Categorize each of them as either softcopy output or hardcopy output device. **(3mks)**

Soft copy	Hard copy

4. a. State the meaning of the term disk defragmentation as used in computers. **(1mk)**

……

……

……

b. State the purpose of the disk defragmentation. **(1mk)**

……

……

……

5. a. Define Power Supply Unit. **(1mk)**

……

……

……

b. State **three** components powered by the power supply unit of the computer. **(3mks)**

……

……

……

……

……

6. Differentiate between computer on board devices and peripheral devices. **(2mks)**

……

……

……

……

7. Describe **four** search options in word processor that enables user to specify search conditions. **(4mks)**

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

……

……

……

……

8. State the function of each of the following keys on the keyboard.

a.Backspace **(2mks)**

……

……

……

b. Return key **(2mks)**

……

……

……

9. Explain the term Electronic spreadsheet. **(2mks)**

……

……

……

……

10. Distinguish between a formula and a function as used in spread sheet. **(2mks)**

……

……

……

……

11. State the hardware technological difference between second generation and third generation computers.**(2mks)**

……

……

……

……

12. State **three** ways of ensuring proper ventilation in a computer room. **(3mks)**

……

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

13. Study spreadsheet below and answer the questions that follows.

	A	B	C	D	E	F	G	H	I
1	Name	Class	cat 1	Cat 2	Total	Average	Grade	Points	Position
2	Caro	E	70	40					
3	Suzan	w	80	90					
4	Fridah	w	65	60					
5	Winny	w	55	80					
6	Perez	E	45	85					
7									

a) Write the formula to count the number of students from class W in cell B7. **(2mks)**

……

……

b) In cell C7 write the formula to display the highest score in cat 1. **(2mks)**

……

……

c) In cell F4 write the formula to calculate the average of Fridah. **(2mks)**

……

……

d) In cell G7 write the formula to count the number of Grade B. **(2mks)**

……

……

e) Given the grades are assigned based on the total as: ***Total >=80 grade A, Total >= 60 grade B, Total >=40 grade C, Total >0 grade D.*** write the formula to assign Suzan grade in cell G3. **(4mks)**

……

……

……

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

f) In cell I5 write the formula to assign Winny position based on total marks. **(3mks)**

……

……

……

……

……

g) In cell F7 write the formula display the number of persons with 80 marks and above. **(2mks)**

……

……

……

……

h) In cell E7 write the formula to sum up totals that are greater than 150. **(2mks)**

……

……

……

……

14. Describe **two** editing modes used in word processor. **(4mks)**

……

……

……

……

……

……

15. Define the term proof reading as used in word processor. **(1mk)**

……

……

……

16. State **three** programs that always run in the background when a computer is started. **(3mks)**

……

……

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

17. State **four** ways of identifying an illegal copy of an operating system. **(4mks)**

……

……

……

……

……

……

18. Define the term peripheral device interfacing. **(1mk)**

……

……

……

19. State **three** advantages of using USB cables. **(3mks)**

……

……

……

……

……

20. List **four** factors to consider when purchasing a printer. **(4mks)**

……

……

……

……

……

……

21. List **three** factors that determine the cost of a computer. **(3mks)**

……

……

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

22. State **two** difference between dynamic RAM and static RAM. **(4mks)**

……

……

……

……

……

……

……

23. List **four** examples of system software. **(4mks)**

……

……

……

……

……

……

24. State **three** advantages of standard software. **(3mks)**

……

……

……

……

……

25. Give **three** ways of inputting data into a computer system. **(3mks)**

……

……

……

……

……

26. Differentiate between Superscript and Subscript. **(2mks)**

……

……

……

……

.

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

27. Describe **four** alignment features used in formatting in word processor. **(4mks)**

……

……

……

……

……

……

……

28. Differentiate between a line printer and a page printer. **(2mks)**

……

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

PROGRESSIVE STUDENTS FORM TWO
MID TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

ADM NO: ……..……. SIGN:……..……..… DATE: ……..

CHRISTIAN RELIGIOUS EDUCATION

FORM 2

Time: 2 Hours

1.(a) State six similarities found in both Biblical and traditional African views on creation **(6Mks)**

(b) Outline the responsibilities given to human beings by God from the Biblical creation stories in Genesis 1 and 2**.** **(6Mks)**

(c) Identify eight ways in which people in traditional African communities take care of God's creation **(8Mks)**

2.(a) Explain six ways that king David used to promote the worship of God in Israel **(6Mks)**

(b) Identify ways in which King Jeroboam contributed to religious schism between Judah and Israel. **(8Mks)**

(c) How does the church help to bring back members who have fallen from faith**?** **(6Mks)**

3.a) Outline the message of angel Gabriel to Mary in Luke 1:26-38. **(7mks)**

b) Explain what the Magnificent reveals about the nature of God. **(6Mks)**

c) Identify six qualities shown by Jesus when he accompanied his parents to the temple at the age of twelve. **(7Mks)**

4 a) With relevance to the sermon on the plain, state teachings of Jesus on how human beings should relate to one another**.** **(8Mks)**

b) Describe the incident in which Jesus calmed the storm. **(6Mks)**

c) Give reasons why modern Christians should accept to suffer in Christ name. **(6Mks)**

5.a) Explain the teachings of Jesus on the qualities of a true discipleship. (Luke 6:20- 49) **(8Mks)**

b) Describe the incident in which Jesus forgave the sinful woman. (Luke 7:36—8:1-3) **(7Mks)**

c) State five lessons Christians learn from the incident in which Jesus forgave a sinful woman. **(5Mks)**

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

PROGRESSIVE STUDENTS FORM TWO
MID TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

ADM NO: ……..……. SIGN:……..……..…. DATE: ……..

Kenya Certificate of Secondary Education

101/1 – ENGLISH – Paper 1

FORM TWO

TIME: 2 HOURS

INSTRUCTIONS

a) Write your name and index number in spaces provided

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

c) Answer ALL questions

d) All answers must be written in the spaces provided

FOR EXAMINER'S USE ONLY

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1.	20	
2.	10	
3.	30	
TOTAL	60	

Q1. You are the chairperson of the Gen Z Club for Peace in your school. The club would like launch a campaign - *Gen Z for Peace and Harmony*. Design a poster that will help the club during the campaign.

In the poster, include the following:

- The title and name of the club
- A brief description of what the campaign is about
- Two reasons why it is important for the public to embrace peace.. (20marks)

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

Q2. Read the passage below and fill in each blank space with the most appropriate word.

Poor parenting is among the issues that have taken a toll on the fight **…a……** drug abuse among students, Katani High School Principal Nickanor Arum …**……..**said. Arum said that**…b……** parents take their roles seriously; the vice will continue to **…c……** a threat to education sector.

The school head stressed the need**..d……..**comprehensive support system outside school to**…e……**such issues, urging parents to cousel and guard their**…f……**

Having been a teacher for almost three decades, Mr. Arum said that **…g……**parents do not deal **…h……**the root course of their indiscipline children and resort to tranfering them **….i …….**one school to another.

(Adopted from Education Newspaper 2024)

Q3. (a) Read the item below and then answer the questions that follow

ROW YOUR BOAT

Row row row your boat
Gently down the stream
Merrily merrily merily, merily
Life is but a dream

If you see a crocodile
Don't forget to scream

Row row row your boat
Gently down the stream
Merrily merrily merily, merily
Life is but a dream.

If you see a snake
Don't forget to run

(i) Identify three elements that make this song easy to remember **(3mks)**

……

……

……

……

(ii) What is achieved by the use of refrain in this song **(3mks)**

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

……

……

(iii) Describe how you would deliver the last line effectively **(2mks)**

……

……

……

……

(b) Read the item below then answer the questions that follow.

Speaker: Order….. members, order….; Our motion reads, social media has done more harm than good, proposers will support the motion the way it is, that is they will focus on the benefits of social media while opposers will oppose the motion by saying; social media has done more good than harm that is they will focus on the negative effects of social media. May we have the first proposer in the floor.

Proposer; Thank you Mr. Speaker, good afternoon, ladies and gentlemen, with humility, it is true that social media has done more good than harm; who can deny that the word is now a global village, businesses are thriving globally through social media networking thanks to the Facebook, TikTok among others. Strategic business research 2019 shows that social media boosted small business globally by over 60 percent

Opposer: What are you saying, if you don't have a point, keep quiet, do you know how many people have lost jobs because of social media, you are talking about businesses booming, do you know how sad it is to lose a job or fail in an interview because of what you post in social media, get your facts right.

Speaker: Ladies and gentlemen, let us respect on another's opinion and we should all make our points through the speaker otherwise we may not have a fruitful debate.

Proposer: Thank you, Mr. speaker, for correcting us. I am sorry the member didn't get my points well, You only fail in an interview or lose your job if you abuse social media, in fact many have succeeded in an interview and even gotten promotions through their objective social media use this can be confirmed by the research done by Demystified Strategic research 2022 that 80 percent of job seekers get their jobs through social media.

Opposer: social media has led to phone addiction, pornography addiction and even cheating in marriage.

i. State three features that show that this item is a debate **(3mks)**

……

……

……

……

……

ii. What show that the proposer was a good debater **(3mks)**

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

……

……

……

……

iii. Explain why the motion above was a good topic for debate **(3mks)**

……

……

……

……

……

(c) i. Use the following words to fill in the table below focusing on the vowel sounds **(3mks)**

(sure, pot, usual, pleasant, agreement sell)

Short Vowels	Long Vowels	Diphthongs

(ii) State the intonation you will use when saying the following sentences **(3mks)**

Close the door! **.....**

Did you win? **.....**

Why are you late for class **?.....**

(d) Read the message of condolence below written by Chebet to her friend who has just lost her uncle. **(4mks)**

Sorry Chebet for the demise of your uncle, it is very painful, how will his family survive, your uncle loved his children oooh no, why you dear Chebet, ooh my God, this is sad, take heart friend, death is a bad reaper. May your uncle rest in peace.

Assuming that you are Chebet, explain four thing you would include in the condolence to make it better. (4 marks)

……

……

……

……

……

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

(d) Explain how you will courteously respond to the following situation.

(i) Matatu conductor: Get out of my *matatu* if you can't. share a seat with other passengers.

You

……

……

……

…… **(1mks)**

(ii) Police Officer: It is important to put on a seatbelt when driving.

You

……

……

……

…… **(1mks)**

(iii) Pastor: I pray for a moment of jocund, a moment for brouhaha.

You: (Seeking clarification)…… **(1mk)**

THIS IS THE LAST PRINTED PAGE

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

PROGRESSIVE STUDENTS FORM TWO
MID TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

ADM NO: ……..……. SIGN:……..……..… DATE: ……..

GEOGRAPHY

FORM 2

Time: 2 ½ Hours

Answer ALL questions in this Section.

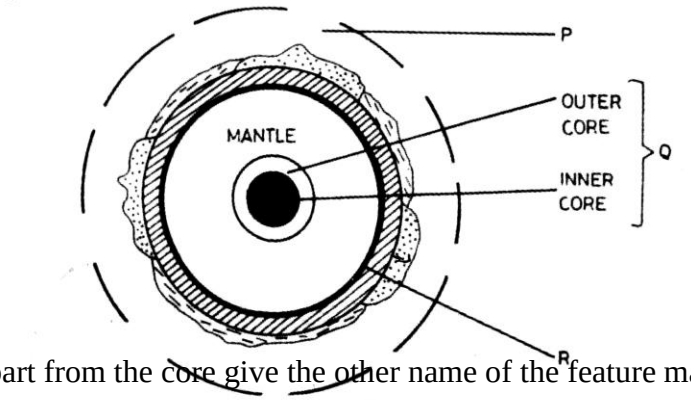
1.a) What is the relationship between Geography and Mathematics. **(2mks)**

b) Identify three areas studied under Practical Geography. **(3mks)**

2. The diagram below represents the structure of the earth. Use it to answer question (a)

(a) Name**: (i)** the parts marked P **(2mks)**

(ii) the discontinuity marked R **(1mk)**



(iii) Apart from the core give the other name of the feature marked Q **(1mk)**

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

3. a) Name two weather elements that can be recorded at a school weather station. **(2mks)**

b) Give 3 reasons why recording of data at a school weather station may be inaccurate. **(3mks)**

c) State 2 conditions to consider when siting a weather station **(3mks)**

d) Mention 3 dangers associated with convectional rainfall **(3mks)**

4. a) What is an earthquake? **(2mks)**

b) Distinguish between lava and magma **(2mks)**

(c) Mention three earthquake seismic zone **(3mks)**

5. a) Outline three characteristics of desert vegetation. **(3mks)**

b) State two reasons for the reduced vegetation on mountain tops. **(2mks)**

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

6. Name three types of maps **(3mks)**

a) (i) convert the following scales into statement scale

-1:50000 **(3mks)**

-1:250000 **(3mks)**

(ii) Give three uses of map scales **(3mks)**

(iii) Mention 4 ways of representing relief on topographical? **(4mks)**

7. a) Describe the following characteristics of minerals:

(i) Colour **(2mks)**

(ii) Cleavage **(2mks)**

(iii) Hardness **(2mks)**

b) (i) Give two types of igneous rocks **(2mks)**

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

c) State four uses of rocks **(4mks)**

d) You are planning to carry out a field on the rocks within your school environment.

(i) Give two secondary sources of information you would use to prepare for the field study. **(2mks)**

(ii) State why you would need the following items during the field study; **(2mks)**

- A geological hammer
- A polythene bag

(iii) Suppose during the field study you collect marble, sandstone and granite, classify each of these samples according to its mode of formation. **(3mks)**

8.a)(i) Name two types of tectonic plate boundaries. **(2mks)**

(ii) Describe the origin of continents according to the Theory of Continental Drift. **(3mks)**

(iii) Explain how the movement of magma causes earth movement. **(2mks)**

b) Name one-fold mountain in:

(i) Asia **(1mk)**

(ii) North America **(1mk)**

(iii) South America **(1mk)**

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

(ii) With the aid of a labelled diagram, describe the formation of an over thrust fold. **(4mks)**

c) Explain four effects of folding on human activities. **(8mks)**

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

PROGRESSIVE STUDENTS FORM TWO
MID TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

ADM NO: ……..……. SIGN:……..……..… DATE: ……..

HISTORY AND GOVERNMENT (311)

FORM TWO (2)

Time: 2½ Hours

INSTRUCTIONS TO THE CANDIDATES:

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

Answer **ALL** questions in section **A,** section **B** , and section **C**

Answers to **all questions** must be written in a separate booklet provided.

SECTION	QUESTIONS	MARKS
A	1-17	
	18	
	19	
	20	
	21	
	22	
	TOTAL	

FOR EXAMINERS USE ONLY

SECTION A

ANSWER ALL THE QUESTIONS IN THIS SECTION

1. State two limitations of Oral traditions as a source of history **(2mks)**

……

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

2. State one advantage of written records as a source of historical information **(1mk)**

……

……

……

3. State one main type of Acheulian tools **(1mk)**

……

……

4. State two characteristics that distinguish man from other primates **(2mks)**

……

……

……

……

5. Give two characteristics of the Agrarian Revolution in Britain **(2mks)**

……

……

……

……

6. In what way did River Nile contribute to the development of early agriculture in Egypt **(1mk)**

……

……

……

7. Name the European country that started the Trans-Atlantic trade **(1mk)**

……

……

8. Identify one method that was used to obtain slaves in West Africa during the Trans-Atlantic trade **(1mk)**

……

……

9. State two early forms of communication **(2mks)**

……

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

10. Who were credited with the invention of the wheel? **(1mk)**

……

……

……

11. State two advantages of the mobile telephone as a means of communication **(2mks)**

……

……

……

……

12. Give one advantage of the facsimile transreceiver (fax) **(1mk)**

……

……

……

13. State one use of gold in the empire of Mwene Mutapa (Zimbabwe) **(1mk)**

……

……

……

14. Give two disadvantages of using coal as a source of industrial energy during the 19^{th} century **(2mks)**

……

……

……

……

15. Give Dr. Christian Bernard's contribution to medicine **(1mk)**

……

……

……

……

16. State two factors which encouraged the Akamba to participate in the long distance trade during the 19^{th} century **(2mks)**

……

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

17. Give two ways in which Seyyid Said contributed to the development of International trade in East Africa **(2mks)**

……

……

……

……

SECTION B (45 MARKS)

ANSWER ALL THE QUESTIONS

18. a)State three factors which influenced the Abagusii to become crop farmers by the beginning of the 19th Century **(3mks)**

b) Describe the political organization of the Abagusii during the Pre-Colonial period **(12mks)**

19. a)State three reasons for the coming of the early visitors to the East African coast by the 15th Century A.D **(3Mks)**

b) Explain six results of the interaction between the people of the Kenyan Coast and the Arabs **(12mks)**

20. a) State three disadvantages of Human porterage/human transport as an early form of transport **(3Mks)**

b) Explain six effects of telecommunication in the society **(12Mks)**

SECTION C (30 MARKS)

ANSWER ALL THE QUESTIONS IN THIS SECTION

21. a) State the three conditions which one must meet to be registered as a Kenyan citizen **(3mks)**

b) Explain six circumstances in which One's freedom of movement may be limited **(12Mks)**

22. a) Identify three National activities/ events which promotes National unity **(3Mks)**

b) Explain any six causes of conflicts in the society **(12mks)**

……

……

……

……

……

……

……

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

PROGRESSIVE STUDENTS FORM TWO
MID TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

ADM NO: ……..……. SIGN:……..……..… DATE: ……..

441/1

HOME SCIENCE

(Theory)

Time: 2 hours

Instructions to students

- Write your name, class, and admission number in the spaces provided.
- Sign and write the date of the exam in the spaces provided.
- The paper consists of three sections: **A, B** and **C.** Answer all the questions in section A and B and any two questions in section C. Answers to all questions must be in the spaces provided.
- The paper has 15 printed pages. Check to see that all the pages are printed and no questions are missing.

For examiner's use only

Section	Question	Maximum Score	Student's Score
A	1-19	40	
B	20	20	
		20	
		20	
Total Score		100	

SECTION A (40 marks)

*Answer **ALL** the questions in this section in the spaces provided.*

1. List **four** basic laundry equipment. **(2mks)**

……

……

……

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

2. Name **two** inconspicuous seams. **(1mk)**

……

……

……

……

3. Highlight **two** qualities of a good iron. **(2mks)**

……

……

……

……

4. Mention **three** disadvantages of using a stainless-steel metal spoon when frying**.** **(3mks)**

……

……

……

……

……

5. Suggest **two** functions of roughage in the body. **(2mks)**

……

……

……

……

6. State **two** points to consider when choosing a refuse container**.** **(2mks)**

……

……

……

……

7. Give **two** reasons why food is fortified. **(2mks)**

……

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

8. Outline **three** disadvantages of open drainage in the home. **(3mks)**

……

……

……

……

……

9. Differentiate between a **soak pit** and a **manhole.** **(2mks)**

……

……

……

……

10. Highlight **two** differences between a french seam and a double stitched seam. **(3mks)**

……

……

……

……

……

11. Suggest **two** reasons why pure cotton may not be a good choice for a school shirt. **(2mks)**

……

……

……

……

12. List **four** builders added to detergents. **(2mks)**

……

……

……

……

……

……

13. Name the machine part that performs the indicated function. **(3mks)**

i) Holds the lower thread**……**

ii) Controls the looseness or tightness of upper thread**……**

iii) Guides thread from the spool pin to the needle**……**

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

iv) Immobilizes/stops movement of the needle for bobbin winding**……**

v) Facilitates movement of fabric when sewing**……..**

vi) Holds fabric in place when stitching**...…….**

14. List **four** communicable diseases that one can contract by eating food from open air food vendors. **(2mks)**

……

……

……

……

15. Mention **two** differences between cotton and wool using the burning test**.** **(2mks)**

……

……

……

……

16. Name **two** disorders associated with lack of calcium in the diet. **(1mk)**

……

……

……

17. Suggest **four** items that can be sterilized by boiling during laundry. **(2mks)**

……

……

……

……

……

……

18. Highlight **two** reasons why care labels are important on a garment. **(2mks)**

……

……

……

……

19. Give **two** measuring and weighing equipment used in the kitchen. **(1mk)**

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

SECTION B (20 marks)

(Compulsory)

Answer question 20 in the spaces provided

20. You are visiting your grandmother over the holiday.

a) Outline the procedure you would use to clean her aluminium *sufuria* that had been used to prepare *ugali*. **(6mks)**

b) State how you would launder her neglected white cotton dish cloth. **(9mks)**

c) Give the procedure you will follow to clean her muddy plastic slippers**.** **(5mks)**

SECTION C (40 marks)

*Answer **ANY** two questions from this section in the spaces provided.*

21. a) Give **four** reasons why cotton is suitable for making games uniform while wool is not. **(8mks)**

b) Highlight **four** disadvantages of using hard water in laundry. **(4mks)**

c) Discuss **four** reasons why inorganic refuse should be well disposed. **(8mks)**

22. a) Draw and label **eight** care label symbols. **(8mks)**

b) Discuss **four** factors that influence the choice of a seam made on a garment. **(8mks)**

c) Give **four** reasons leather school shoes are not suitable for use during sports**.** **(4mks)**

23. a) Identify **five** environmental challenges that can be associated with the recent prolonged rains in the country. **(5mks)**

b) Mention **four** rules to observe when starching clothes. **(4mks)**

c) Suggest **five** amenities that one should consider when choosing an area to live in**.** **(5mks)**

d) Discuss **three** disadvantages of the mushrooming high-rise buildings in many residential areas in towns. **(6mks)**

……

……

……

……

……

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

This is the last printed page

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

PROGRESSIVE STUDENTS FORM TWO
MID TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

ADM NO: ……...……. SIGN:……..……..… DATE: ……..

ISLAMIC RELIGIOUS EDUCATION/314

FORM TWO

TIME: $2^1/_2$ HRS

INSTRUCTIONS:

- *Answer ALL the questions*
- *Write your answers in the answer sheet provided.*
- *All answers must be in English*

1.a) List the etiquettes that should be observed when reading the Qur'an **(8mks)**

b) Explain the reasons why Qur'an was not compiled during the time of the Prophet (S.A.W) **(7mks)**

c) Teachings of the last two verses of Suratul-Baqarah **(5mks)**

2.a) Discuss contributions of Hadith towards Islamic culture **(6mks)**

b) List ways through which hadith evolved **(4mks)**

3. a) Outline any four manifestations of Shirk Al-Akbar **(4mks)**

b) Discuss the factors that make Prophet Muhammad to be the final prophet **(6mks)**

4. a) List the obligatory acts of wudhu **(6mks)**

b) What is the relevance of Shahada in the life of a muslim? **(8mks)**

5. a) State the effect of zinaa in the society **(6mks)**

b) What is the significance of exercising the virtue of tranquility (Sakinah) **(4mks)**

6.a) Mention any six conditions of marriage **(6mks)**

b) Explain the types of divorce. **(4mks)**

7.a) List the terms of the first covenant of Al Aqaba **(4mks)**

b) State the effects of the battle of Uhud **(8mks)**

8. Explain any four achievements of Al- Amin Ali bin Abdullah Al- Mazrui**.** **(8mks)**

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

PROGRESSIVE STUDENTS FORM TWO
MID TERM 3 SERIES ONE EXAMS

JINA: ……..……

SHULE: ……..……

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

KISWAHILI

MUDA: SAA 2 ½

Maagizo

1. Jibu Maswali yote
2. Majibu yote yaandikwe katika nafasi ulizoachiwa katika karatasi hii ya Maswali
3. Majibu yote lazima yaandikwe kwa lugha ya Kiswahili
4. Wahataniwa lazima wahakikishe kuwa kurasa zote za karatasi hii zimepigwa chapa sawasawa na kuwa Maswali yote yamo

Matumizi ya mtahini pekee

SEHEMU	UPEO	ALAMA
1. UFAHAMU	15	
2. UFUPISO	15	
3. MATUMIZI YA LUGHA	40	
4. ISIMU JAMII	10	
JUMLA	80	

1. UFAHAMU (ALAMA 15)

Soma makala yafuatayo kisha ujibu maswali

Mzawa alikuwa **mziwanda** miongoni mwa ndugu zake wanne. Alipopigwa darubini, alionekana kuwa mwanagenzi ambaye **falau** angemakinika angefikia upeo wa ufanisi masomoni kwa kuwa na vipawa adimu vilivyofaa kuchochewa, kufukutwa, kurandiwa na kapigwa msasa. Nia ingekuwepo njia ingepatikana. Wala hakuwa peke yake. Kulikuwa na wengi kama yeye. Na kisiki kilichomkingamia kilikuwa kipi? Kisiki kilichokuwepo kilikuwa kwamba licha ya kuwa katika kidato cha tatu na mwenye umri wa miaka yapata kumi na sita, alikuwa mfano wa ajabu ya shingo kukataa kulala chini, hakukomaa. Na mtu ataitwa mtu vipi bila kukomaa? Wenzake darasani walimwita ‘toto kuu’ kwa kuwa japo alionekana katutumka, tena mlingoti, alidinda kukaramka. Nao utu mzima hufunzwa katika taasisi gani? Jawabu la swali hili lingalipatikana lingalimfaa sana Mzawa.

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

Na usidhani wasiokomaa ni waziwanda tu, hata vifunguamimba na wanuna wao wote waweza kukomaa kutegemea misukumo, ari na mazingira yaliyo karibu nao. Mtoto azaliwapo, bongo lake huwa ombwe tupu na chochote kiingiacho humo huwa kama kinachoandikwa kwa wino usiofutika, hunata kama gundi. Ukomavu huanzia hapa na mzazi akifanya waa katika maneno na vitendo afanyavyo kwa mtoto, huenda akachangia kwa kutokomaa kwake.

Mzawa hakuwa na umbu. Hii ilionyesha kuwa, kwa kuwa wazaziwe walikuwa wamejikopoa wana wanne wa jinsia moja, walimngojea mwana wa jinsia tofauti kwa hamu na ghamu. Si ajabu kuwa pindi alipozaliwa waliamua kufikisha uzazi hatima yake baada ya kupata walichokikamia. Msisimko uliowapata wazazi wa Mzawa ndio uliowapeleka kumtendekeza. Na ni kwa nini wazazi wengi huwa hawatosheki kamwe kwa kuwapata watoto wa jinsia moja tu? Si ajabu kuwaona wengine wakijifungua hata zaidi ya wana kumi, tena katika karne hii ya upangaji uzazi, lengo likiwa kusaka jinsia wasiyojaliwa kuipata. Sijui ni nani atakayeuganga ukongo huu.

Mama Mzawa alipofunga mkaja, walisitisha shughuli zao zote, wakawa wanasherehekea kwa vigelegele, wakikipakata kitoto chao kwa zamu zilizorembeshwa kwa mashairi ya sifa za utanashati wa mwanao kwa mahadhi mbalimbali yaliyotiwa udamisi ajabu. Msisimko kama huu lazima uwepo huwatokea wampatao mwanao wa kwanza na hasa waliolimatia kujikopoa, hivyo baba mtu akaamua hataitwa tena jongoo asiyeukwea mtungi na mama hataitwa tasa. Hili huzua hatari ya kumdekeza mwana, naye atadeka milele kama huyu Mzawa.

Wazazi wa Mzawa hawakumkomaza. Kila kuchao walimwita ‘mtoto’, naye akawa mtoto wa kweli hata akafikia kidato cha tatu. Yasemwa kuwa Mzawa alilikamata ziwa la mamaye hata akafikia darasa la tano. Haikuwa ajabu kumpata mamake akimsubiri njiani eti maziwa yanamwasha, naye mwanawe amekishika kilembe kadamnasi ya watu huko njiani, huku amepakatwa kiweoni. Kisha akishakinai kuama, angeelekwa kwa umbeleko hadi nyumbani alikomkuta babaye aliyemngojea kwa hamu na kwa nyimbo za kumuongoa hadi alale.

Hadi afike hapo alipokuwa sasa, Mzawa hakujua hata kunawa uso. Daima alioshwa na mvyele wake bila hata kuona soni kwa kuwa aliamini kuwa bado ni mtoto- mfikirie mtu aliyevunja ungo akioshwa na mamaye! Izara yafaa kumkumba, ila Mzawa alinyimwa soni. Ama ndiye aliyezua maneno, “waso haya wana mji wao?” Kama walisema avuliwaye nguo huchutama, ikawaje hata Mzawa avuliwa nguo na hata kukoshwa? Jitihada za nduguze kumkebehi na kumwambia ajitegemee na zile za majirani kuwasuta wazazi wa Mzawa ziliambulia patupu.

Hii sasa ni shule ya sita aliyosomea Mzawa tangu aingize mguu wake katika shule ya upili. Kila aingiayo haimweki. Mara atasingizia kuwakosa wazazi wake, mara atalia eti chakula ni kigumu, atasema aona baridi akilala peke yake kwa kuzoea kulala mbavuni mwa wazae wake, homa ikimpata hulia kuwa hatunzwi, mwili haogi na hata anaposhikiwa shokoa na wenzake hajui kunawa hata uso! Huyaacha matongo yakiwamulika watu. Naye hunuka fee! Mahali alalamo ungedhani ni makao ya beberu kwa mnuko. Harufu aliyotoa viatuni mwake ingesababisha pua kung’oka na mapafu kurudi. Alimradi Mzawa au “toto

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

kuu," kama alivyobatizwa, alikuwa zaidi ya mtoto. Na ingawa ni mapema sana huyawaza haya, je, Mzawa atakomaa, atengenee, apate ajira, apate mbawaze arukie au atakuwa kinda milele? Atapata kufu yake hatimaye?

Wako wapi hawa vifungamimba, wanuna au waziwanda waliokomaa wawakomaze wawakomaze wasiokomaa? Ama wewe usomaye wasubiri kwenda likizoni kupakatwa na wazazio? Tabia zisizoafiki umri wa mtu huongonga, na wenye hekima walitufaa waliposema, "Mtoto akinyea kiweo hakikatwi," tutakiosha 'kiweo' chenyewe mtoto aadilishwe aadilike, aadibishwe aadibike.

MASWALI

(a) Yape makala haya anwani mwafaka. **(alm1)**

……

……

(b) Eleza vile wazazi wa mzawa walivyochangia katika tabia yake **(alm3)**

……

……

……

……

……

(c) Kwa nini shule mbalimbali hazikuweza kumweka Mzawa? **(alm4)**

……

……

……

……

……

(d) Kwa kuitolea mifano, **taja aina nne** ya tamathali za usemi zilizotumika katika taarifa uliyoisoma. **(alm4)**

……

……

……

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

(e) Eleza maana ya maneno yafuatayo kama yalivyotumika katika makala**.** **(alm3)**

(i) Mziwanda

…….

(ii) Kukaramuka

…….

(iii) Waa

……..

SEHEMU B: UFUPISHO

Soma taarifa ifuatayo kisha ujibu Maswali

Dawa za kulevya zinaweza kugawika katika makundi mawili makuu; dawa hasi na dawa sugu. Katika kundi la kwanza zinaingia dawa zozote ambazo hunywewa, kunuswa na hutumiwa kwa nia ya kulewa au kumwingiza mtumiaji katika hali ya kujihisi amepanda'. Dawa za aina hii huwa na matokeo hasi kweye mwili wa mtumiaji. Inawezekana jamii ikakubali kuwepo kwake, kwa watumiaji. Baadhi ya dawa hizi ni bidhaa za tumbako ambazo huwa na aina za kemikali inayoitwa nikotini. Nyingine ni vileo kama wiski, bia, divai,mairungi, gundi ya viatu na bidhaa zinazotokana na petrol.

Hebu sasa tuangalie zile zinazoitwa dawa sugu. Hizi ni dawa ambazo kimsingi humchangamsha mtumiaji na kumfanya apandwe na nishati za ajabu. Dawa hizi hufanya hivi kwa kuzitekenya seli za ubongo wa anayehusika. Katika kulifaya hili dawa zenyewe huishia kuziua seli za ubongo huo. Huu ndio msingi wa mtumiaji kuwa na ustahimilivu Fulani wa dawa zenyewe. Ustahimilivu huu ndio unaomfanya awe kama aliyetawaliwa na dawa hizo. Yani mtumiaji huwa hana njia nyingine ya kujizuia na huishia kuwa mtumwa wa dawa hizo. Baadhi ya dawa sugu ni bangi, afyuni, heroini, mihadarati na kokeini. Baadhi ya wataalamu wanajumlisha miraa katika kundi hili pia.

Ni kawaida kusikia madai kuwa mtu anayetumia dawa za kulevya huonekana kuwa na furaha kuliko wenzake. Ili kuelewa chanzo cha msisimko na furaha hiyo ya ajabu, lazima tuzijue hatua anazopitia mtumiaji dawa za kulevya. Kimsingi kuna hatua tatu kuu. Mara tu mtu anapozitumia dawa za kulevya, dawa hizo huzichangamsha seli za ubongo kwa kiasi kikubwa. Kuchangamshwa huku kwa seli kunazuia mwili wa anayehusika kutopata hisia kutoka viungo vya mwili au misuli ya mwili. Matokeo ya hali hii n kumfanya mtu anayehusika kutenda mambo kupita kawaida yake. Mathalan, ataonekana kuwa na furaha nyingi, atasoma kupita kawaida, anaweza kwa kipindi kirefu na kadhalika. Hali hii inaweza kuitwa hali ya 'mpumbazo'. Mpumbazo huu unaweza kumdanganya anayehusika kuhisi kuwa ana uwezo usiokuwa wa kawaida. Lakini hii ni hali ya muda tu ambayo hutangulia kuuliwa na kuharibiwa kwa seli za ubongo.

Mtumiaji anayeingia katika hatua ya pili huwa anatoka kwenye ile hali ya mpumbazo. Hatua ya pili huambulishwa na dalili zifuatazo; Uchovu, kulala kupita kiasi, kutokuwa na hamu ya kazi au mambo mengine. Kupuuza maswala ya siha na afya, usahaulifu, kukosa malengo au shabaha katika kazi yake, kupungukiwa na kumbukumbu, kujitenga na watu wengine na kuwa

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

na hisia za chuki au uhasama na jamaa. Mtumiaji anapofikia hatua hii hutambulikana waziwazi na watu walio karibu. Mtumiaji wa dawa za kulevya huweza tu kunusurika au kuokolewa katika hatua hii. Akipita hatua hii ya pili, huwa anaingia katika awamu mbaya sana.

Hatua ya tatu ya mtumiaji wa dawa za kulevya huitwa hatua 'isiyo ya kawaida'. Sifa za kutambulisha mtumiaji aliye kwenye ngazi hii ni fadhaa kubwa, unyonge wa mwili msongo wa mawazo na uvunjifu mkubwa. Mtumiaji aliyefikia ngazi hii huonyesha sifa kadha milele. Mathalani kujitenga kabisa na jamaa au watu walio karibu naye, kupakiwa kabisa na usingizi, kuudhika haraka na kuwa na tabia ya kuonyesha uchukivu wa vitu kwa kupigana, kuchanganyikiwa kunatokana na kuharibikiwa kwa seli za ubongo, wazimu au kuangukaanguka kama mgonjwa wa kifafa. Katika ngazi hii, seili za ubongo zinazomsaidia mtu kufanya uamuzi mzuri huwa zimeharibiwa na dawa zenyewe. Si ajabu basi kuwa mtumiaji anaonyesha tabia za kitoto na huishi kama mtu aliye kwenye ndoto. Hatimaye ubongo unazongwa kabisa kutokana na madhara ya seli na mtumiaji huweza kushikwa na magonjwa ya kiakili kama wendawazimu.

Mwisho wa mtumiaji wa dawa za kulevya aliyefikia ngazi hii ni kufariki baada ya mwili wake kushindwa kuhimili uzito wa dawa zenyewe. Wengine huishia kujinyonga au kufariki kutokana na madhara ya moyo.

a) Fupisha aya kwanza na ya pili. **(maneno 45-50, alm7)**

Matayarisho

.....

.....

.....

.....

.....

.....

.....

.....

Nakala safi

.....

.....

.....

.....

.....

.....

.....

.....

.....

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

.....

.....

b) Eleza hatua anazopitia mtumiaji wa dawa za kulevya. (maneno 90-100) **(alm8)**

Matayarisho

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

Nakala safi

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

MATUMIZI YA LUGHA (ALAMA 40)

a) i) Andika neno lenye sauti zifuatazo**.** **(alm1)**

Kipasuo sighuna cha mdomoni, Irabu ya mbele juu, kipasuo sighuna cha kaakaa laini, Irabu ya chini kati.

.....

.....

ii) Andika neno lenye muundo ufuatao; Konsonanti + Konsonanti + nusu Irabu + Irabu + Konsonanti + Irabu. **(alm1)**

.....

.....

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

b) Bainisha miundo ya silabi katika maneno yafuatayo; **(alm2)**

i) Muktubi

……

……

ii) Choma

……

……

c) Pigia mstari silabi inayotiwa shadda katika maneno yafuatayo**.** **(alm2)**

i) Samehewa

.....

ii) Ala (kifaa)

.....

d) Dhihirisha majukumu yanayojitokeza katika sentensi zifuatazo**.** **(alm2)**

Tafadhali naomba maji ya kunywa.

Leteni vitabu viwili viwili

……

……

……

……

e) Bainisha maneno katika sentensi ifuatayo.

Mbwa mwitu alisakwa msituni**.** **(alm2)**

……

……

……

……

f) Tumia neno ‘kama’ katika sentensi kama; **(alm2)**

(i) Kitenzi

……

……

(ii) Kiunganishi

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

g) Bainisha mofimu katika neno lifuatalo: kilimliza. **(alm3)**

……

……

……

……

……

h) Andika kwa wingi**.** **(alm2)**

Mti ule unapendeza.

……

……

……

……

i) Bainisha aina tatu za virai vilivyopigiwa mstari katika sentensi. **(alm3)**

Huyu wa mama alikuwa darasani jioni.

……

……

……

……

……

j) Tambua kiima na kiarifu kwenye sentensi.

Mlumbi hodari atatuzwa zaidi**.** **(alm2)**

……

……

……

……

k) Changanua sentensi hii kwa njia ya mstari.

Msichana mrembo alipika ugali asubuhi sana**.** **(alm4)**

……

……

……

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

l) Kanusha sentensi ifuatayo;

Chakula kilikuwa kimeliwa chote**.** **(alm2)**

……

……

……

……

m)Andika katika usemi wa taarifa**.** **(alm2)**

"Je, mmesoma makala haya? Musa aliwauliza.

……

……

……

n) Andika kinyume cha sentensi ifuatayo.

Mama alianua nguo wakati wa magharibi**.** **(alm2)**

……

……

……

……

o) Unda nomino kutokana na vitenzi vifuatavyo. **(alm2)**

Imba

……

……

La

……

……

p) Nomino hizi zinapatikana katika ngeli gani? **(Alm2)**

i) Kipepeo

……

……

ii) Kiwiko

……

……

q) Akifisha sentensi ifuatayo

kombo alimpelekea maria kitabu jijini nairobi **(alm2)**

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

……

……

……

……

r) Chuma ni kwa mhunzi**.....** ni kwa mfinyanzi na **……**ni kwa seremala . **(alm2)**

ISIMU JAMII (ALAMA 10)

a) Thibitisha kuwa Kiswahili ni kibantu. **(alm5)**

……

……

……

……

……

……

……

b) ‘‘Usiwesurprised ukifail tena’’

i) Tambua mtindo huu wa kutumia lugha **(alm1)**

……

……

ii) Kwa nini wanajamii hutumia mtindo huu wa lugha? **(alm4)**

……

……

……

……

……

……

……

……

……

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

PROGRESSIVE STUDENTS FORM TWO
MID TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

ADM NO: ……..……. SIGN:……..……..… DATE: ……..

MATHEMATICS

FORM TWO- TERM 2

121/1

Paper 1

Time: 2½ Hours

Instructions to Candidates

(a) Write your name and admission number in the spaces provided at the top of this page.
(b) Write your school name, sign and write the date of the examination in the spaces provided above.
(c) This paper consists of **Two** sections: **Section I** and **Section II**
(d) Answer **ALL** questions in Section I and **any five questions** from Section II
(e) Show all the steps in your calculations, giving your answers at each stage in the spaces provided below each question.
(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.
(h) Candidates should check the question paper to ensure that all the pages are printed as indicated and no questions are missing**.**
(i) Candidates should answer the questions in English.

For Official Use Only

Section I

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

Section II **Grand Total**

17	18	19	20	21	22	23	24	Total

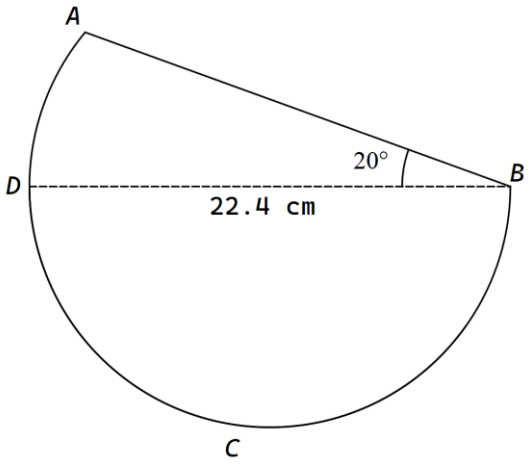
Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

SECTION I – 50 Marks

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

1. Simplify without using calculators $\frac{2}{5} of 1\frac{2}{3} - \frac{1}{2}\sqrt{\frac{1\frac{2}{3} - 2\frac{1}{2}}{\frac{1}{3} - \frac{19}{27}}} + \frac{2}{3}$ **(3mks)**

2. Find the perimeter of the figure ABCD given that BCD is a semicircle with DB as its diameter and the arc AD is a part of a circle whose centre is at point B. (Take $\pi = \frac{22}{7}$) **(3mks)**



3. One interior angle of an irregular polygon is 800 and each of the other interior angles is 1250. Find the number of sides of the polygon. **(3mks)**

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

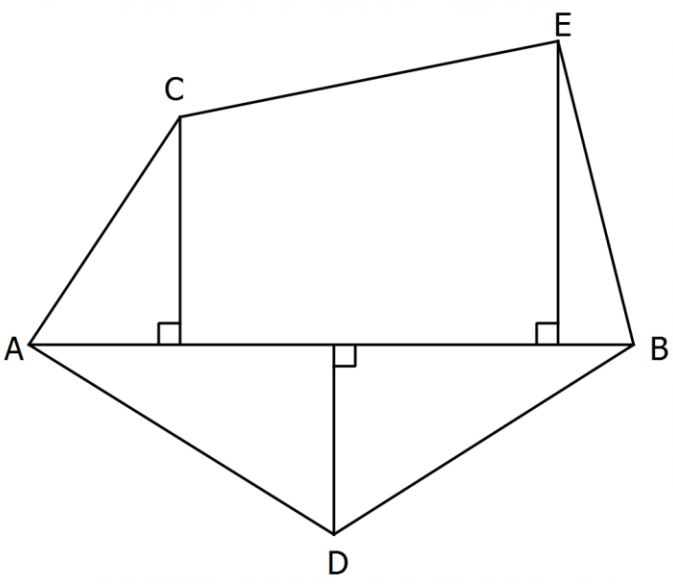
4. Given that $\cos\theta = 0.8$, without using a mathematical table or a calculator find the value of $\tan(90-\theta)$ **(3mks)**

5. The wall of a bathroom has its length equal to its width. The wall is to be fitted with a number of whole rectangular tiles of dimensions 0.6 m by 0.48 m. Calculate the least dimension of the wall that can be covered by such tiles. **(3mks)**

6. Use logarithm tables to evaluate: $\sqrt{\frac{2.913\times 0.0765}{38.74}}$ **(4mks)**

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

7. The figure below shows the shape of a flower garden accurately drawn to scale of 1:1000.



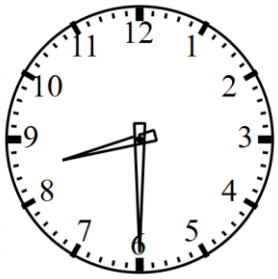
(a) Find the area of the garden, in hectares. **(3mks)**

(b) Taking AB as the base line, record the actual measurements of the garden as they would appear in a surveyor's field book **(1mk)**

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

8. Solve for x in the equation; $9^{x+1} + 3^{2x+1} = 36$ **(3mks)**

9. Juma left his home at the time show in the clock below.



He drove a distance of 140 km and arrived at his aunt's home at 10.15 a.m. Determine the average speed, in km/h, for Juma's journey. **(3mks)**

10. Use tables of cubes, reciprocal and square roots only to evaluate $26.52^3 - \dfrac{10}{\sqrt{0.0256}}$. **(4mks)**

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

11. Simplify $\dfrac{2a^2 - b(5a + 12b)}{5ab^2 + 12b^3 - 2a^2b}$ **(3mks)**

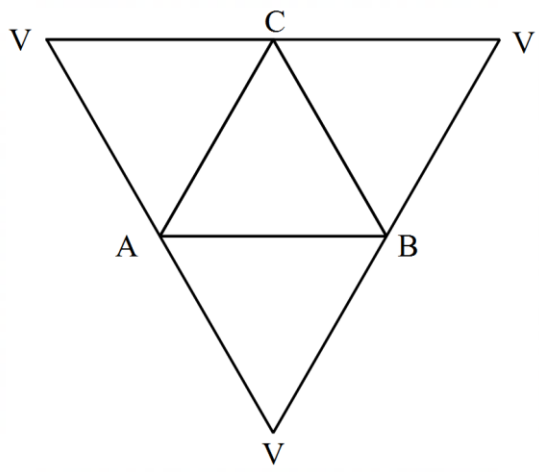
12. Show that the number 26753298 is divisible by both 6 and 11. **(3mks)**

13. When a shopkeeper sells an appliance to a customer at Ksh. 15000, he makes a loss of 4% on the cost price. What percentage profit would he have made by selling the appliance for Ksh. 18000? **(3mks)**

14. Two containers have base area of 900 cm^2 and 144 cm^2 respectively. Calculate the capacity of the larger container in litres given that the volume of the smaller container is 200 cm^3. **(3mks)**

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

15. The diagram below shows an accurate net of a solid VABC.



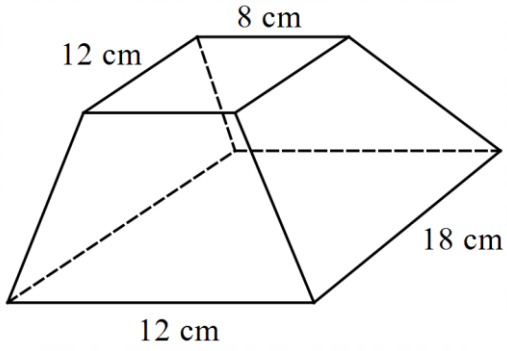
Describe the solid VABC. **(2mks)**

16. Mary has a driver, a gardener and a house manager. The driver's daily wage is three times that of the gardener. That of the gardener is Ksh.500 less than that of the house manager. Their total daily earnings are Ksh. 5500. Express the ratio of their earnings; driver: house manager: gardener in its simplest form. **(2mks)**

SECTION II (50 Marks)

*Answer any **five** questions in this section*

17. The figure below shows a solid rectangular based frustum whose vertical height is 20 cm.



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

(a) Find the height of the original pyramid for which the frustum was obtained. **(2mks)**

(b) Calculate the volume of the frustum. **(3mks)**

(c) The frustum is recast into a composite solid comprising of a cone mounted on a hemispherical bottom of diameter 16.8 cm. Calculate the height of the composite solid. Use $\pi = \frac{22}{7}$. **(5mks)**

18. Jackie is a sales executive earning a basic salary of Ksh. 20000 and a commission of 8% for the sales in excess of Ksh. 100000. If in April, she earned a total of Ksh.48000 in salaries and commissions.

(a) Determine the amount of sales she made in that month **(3mks)**

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

(b) If the total sales in the month of May and June increased by 18% and then dropped by 25% respectively.

Calculate

(i) Jane's commission in the month of May **(3mks)**

(ii) Her total earning in the month of June. **(4mks)**

19. Three traders Rehema, Lucie and Milly decided to buy a canter truck. The marked price of the truck was Ksh. 2800000. They could pay a deposit of 60% of the money and the rest to be paid within one year. Rehema, Lucie and Milly raised the deposit in the ratio 3:7:4 respectively. The balance was to be paid from the proceeds of the truck in the same ratio as the deposits. During the year, the truck realized Ksh. 2030000, which was shared in the same ratio as the deposits.

(a) How much deposit did each person contribute? **(4mks)**

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

(b) How much of the remaining amount did Milly pay at the end of the year? **(2mks)**

(c) After paying the remaining amount at the end of the year, how much money was Rehema left with? **(4mks)**

20. Amobi School English Club intends to buy a number of scrabble boards for Ksh. 16200. The supplier agreed to offer a discount of Ksh. 60 per scrabble board which enabled the club to get three more scrabble boards. By letting b as the original number of scrabble boards to be bought,

(a) Write an expression in terms of b for:

(i) the original price per scrabble board. **(1mk)**

(ii) the price per scrabble board after the discount. **(1mk)**

(b) Determine:

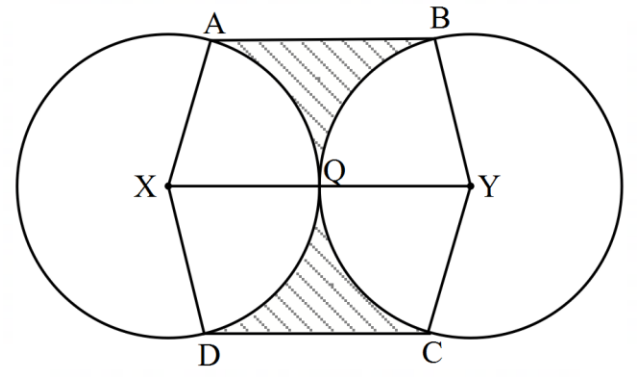
(i) the number of scrabble boards that the club originally intended to buy. **(4mks)**

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

(ii) the price per scrabble board after the discount **(1mk)**

(iii)the amount of money the club would have saved per scrabble board if they got the intended number of chess boards at a discount of 15%. **(3mks)**

21. The figure below shows two equal circles with radius 7 cm each with centres X and Y. The two circles are in contact at Q.



Given that $\angle AXD = \angle BYC = 120^0$, and lines AB, XQY and DC are parallel,

Calculate the area of:

(a) the minor sector XAQD **(2mks)**

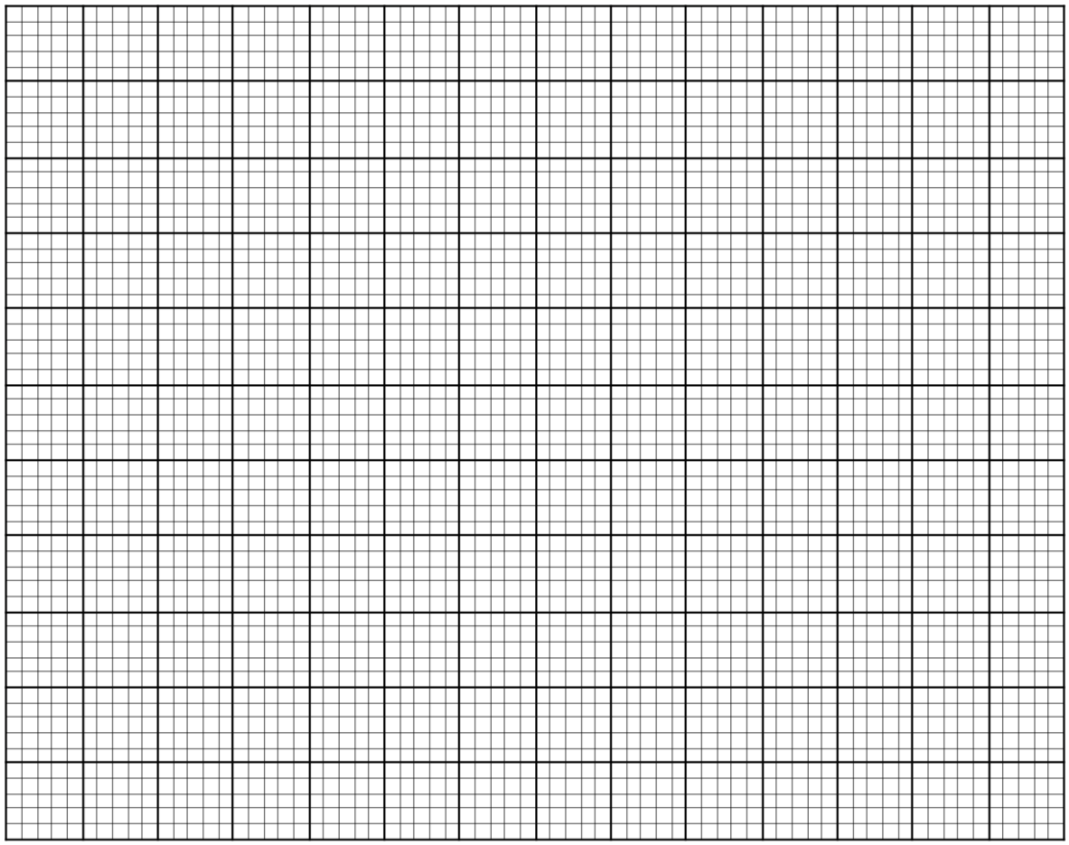
Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

(b) the area of the trapezium XABY **(4mks)**

(c) the shaded region. **(4mks)**

22. Triangle PQR whose vertices are $P(0,0)$, $Q(0,6)$ and $R(2,4)$ undergoes a transformation **M** to produce triangle $P'Q'R'$ with vertices $P'(3,-1)$, $Q'(4,1)$ and $R'(3,2)$

(a) On the grid provided, plot and draw triangles PQR and $P'Q'R'$. **(2mks)**



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

(b) Describe **M** fully. **(2mks)**

(c) Triangle $P''Q''R''$ is the image of $P'Q'R'$ under a rotation of $+90^0$ about P

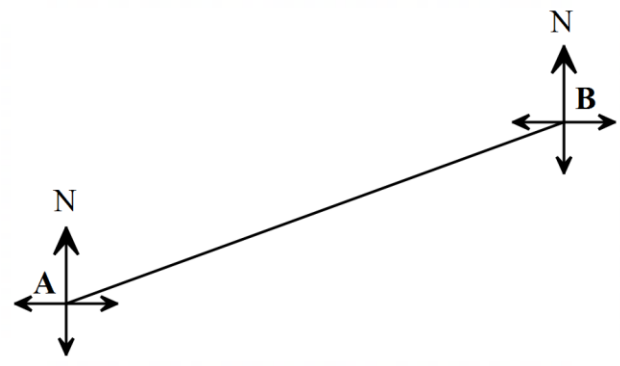
(i) On the same grid, draw triangle $P''Q''R''$ **(2mks)**

(ii) State the coordinates of $P''Q''R''$. **(1mk)**

(d) Triangle $P''Q''R''$ undergoes a reflection along the line y+x=0 to give triangle $P'''Q'''R'''$. On the same axes, draw triangle $P'''Q'''R'''$. **(2mks)**

(e) Identify the type of congruency between triangles $P''Q''R''$ and $P'''Q'''R'''$. **(1mk)**

23. The diagram below shows part of a ranch enclosed by the boundaries AB, BC, CD and DA whose corners are at the points A, B, C and D



(a) Given that the boundary AB is given as 70 km,

(i) Determine the ratio used in drawing the boundary AB. **(2mks)**

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

(ii) Describe the location of point B with reference to point A. **(2mks)**

(b) If point D is on a bearing of 130^0 from A at a distance of 55 km, while point C is on a compass bearing of S40^0E from B, and due east of D, use the scale in part (a) (i) to show the boundaries BC, CD and AD. **(3mks)**

(c) Find;

(i) the distance of point C from D. **(2mks)**

(ii) the bearing of D from B. **(1mk)**

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

24. Line B whose equation is $4x + 3y - 12 = 0$ is parallel to another line C which passes through the point $(-7, 4)$

(a) Find the equation of C in the form $y = mx + c$, where m and c are constants and hence state the coordinates of the y-intercept. **(3mks)**

(b) Another line D is perpendicular to C and passes through the point $(-5, -7)$. Find the equation of D in the form $ax + by = c$, where a, b and c are integers. **(3mks)**

(c) Find the coordinates of the point of intersection of the lines C and D. **(4mks)**

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

PROGRESSIVE STUDENTS FORM TWO
MID TERM 3 SERIES ONE EXAMS

NAME: ……..……

SHOOOL: ……..……

ADM NO: ……..……. SIGN:……..……..… DATE: ……..

PHYSICS

Instructions to candidates

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

b) *This paper consists of **two** sections **A** and **B.***

c) *Answer **all** the questions in sections **A** and **B** in the spaces provided.*

d) ***All** working **must** be clearly shown.*

e) *Silent non-programmable electronic calculators may be used.*

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

g) ***Students should answer the questions in English.***

For Examiner's Use Only

Section	Questions	Maximum Score	Candidate's Score
A	1-13	25	
	14	10	
	15	12	
	16	11	
	17	11	
	18	11	
	Total Score	**80**	

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

SECTION A: (25 marks)

Answer <u>all</u> the questions in this section in the spaces provided.

1. State what is studied under Electricity and Magnetism as a branch of Physics. **(1mk)**

……

……

……

2. Figure 1 below shows two setups by a student using identical lamps and thermometers.

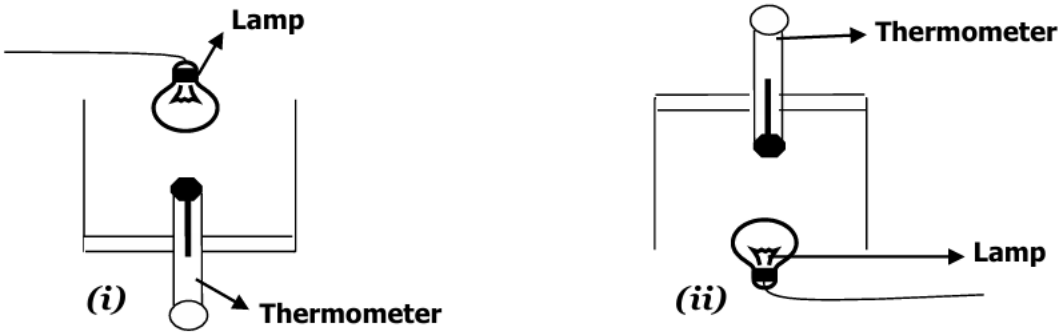


Figure 1

If the lamps are switched on for the same duration, state which setup is thermometer reading a higher temperature? **(2mks)**

……

……

……

……

3. Differentiate between a fundamental quantity and a derived quantity. **(1mk)**

……

……

……

4 In an experiment to determine the density of certain solid B, the following readings were obtained using a density bottle;

Mass of empty density bottle = 9 g

Mass of the density bottle + some solid B = 99 g

Mass of the density bottle + solid B + water to full =135 g Mass of the density bottle + Water = 88 g

Calculate the density of solid B. (*Take density of water to be 1g/cm*^{3}) **(4mks)**

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

5. State **one** way of making the surface tension of water higher. **(1mk)**

……

……

……

6. A mercury barometer reads 640 mmHg at a raised point and normal pressure of 760 mmHg at the sea level. If the density of mercury is 13.6 g/cm^3 and that of air is
1.3 kg/m^3, determine the altitude of the point. **(3mks)**

……

……

……

……

……

7. State **two** conditions that must be met by a horizontal rod acted upon by several forces in order to be at equilibrium. **(2mks)**

……

……

……

……

8 State the role of lycopodium powder in the Oil Drop Experiment. **(1mk)**

……

……

……

9. In the spaces provided below, sketch two cones resting on a flat illustrating stable equilibrium and unstable equilibrium. **(2mks)**

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

10. A student added water to capacity into a bottle and then kept it in the refrigerator for a day. He realized that the bottle developed a crack after that duration. Explain. **(2mks)**

……

……

……

……

11. Explain why heat transfer by radiation is faster than by convection or conduction. **(2mks)**

……

……

……

……

12. State Coulomb's Law for charges. **(1mk)**

……

……

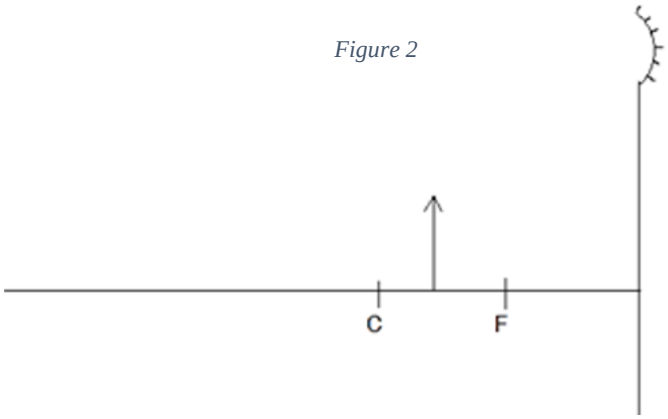
……

……

13. **Figure 2** shows an object pin in front of a concave mirror.

Draw a ray diagram to show how the image is formed. **(3mks)**

Figure 2



Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

SECTION B: (55 marks)

Answer <u>all</u> the questions in this section in the spaces provided.

14. (a) Define the term *'particulate nature of matter'* **(1mk)**

……

……

……

(b) Explain why it is possible to add salt to water without a substantial change in its volume. **(2mks)**

……

……

……

……

(c) Brownian motion of smoke particles can be studied by using the apparatus shown in **Figure 3.**

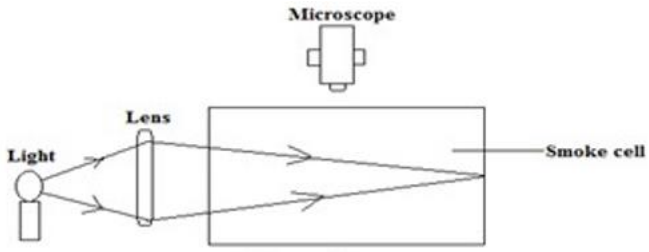


Figure 3

To observe the motion, some smoke is enclosed in the smoke cell and then observed through the microscope. State the role of:

(i) Lens **(1mk)**

……

……

(ii) Microscope **(1mk)**

……

……

(iii) State and explain the observation made. **(3mks)**

……

……

……

……

(iv) State and explain what will be observed about the motion of smoke particles if the temperature surrounding the smoke cell is raised slightly. **(2mks)**

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

……

……

……

15. (a) Define the term *moment of force.* **(1mk)**

……

……

……

(b) State **one** application of antiparallel forces. **(1mk)**

……

……

……

(c) The figure 4 shows a device for closing a steam outlet. The area of the piston is$4.0 \times 10^{-4} m^2$and the pressure of the steam in the boiler is $2.0 \times 10^5\ Nm^{-2}$. Determine the weight W that will just hold the bar in the horizontal position shown. (4mks)

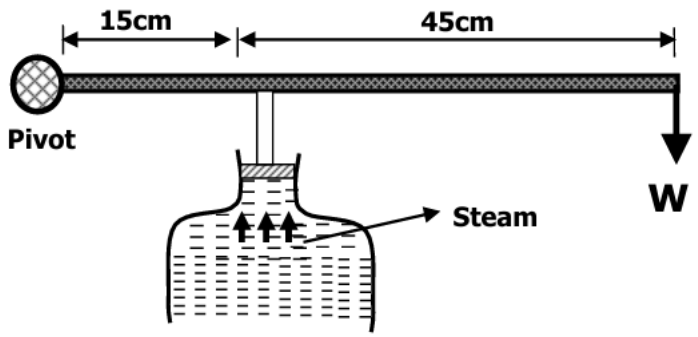


Figure 4

(d) Explain why car mechanics have a preference for carjacks with long handles. **(1mk)**

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

(e) A uniform meter rule of mass 150 g is pivoted freely at the 0 cm mark. Determine the force to be applied vertically upwards at the 60 cm mark to maintain the rule horizontal. **(3mks)**

(f) Locate the position of the C.O.G. of the body given. **(2mks)**

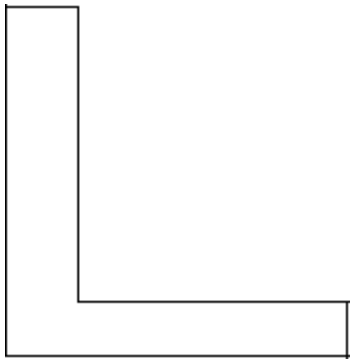


Figure 5

16. (a) Differentiate between magnetic and non-magnetic materials. **(1mk)**

……

……

……

……

(b) Four bars of metal A, B, C and D are tested for magnetism. B attracts both A and C but not D. D does not attract A, B or C. A and C sometime attract one another and sometimes repel one another. What conclusion can you draw about?

(a) Bar A

(b) Bar B

(c) Bar D **(3mks)**

……

……

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

(c) State the *Motor Rule*. **(1mk)**

……

……

……

(d) Explain how shape of the core affects strength of an electromagnet. **(2mks)**

……

……

……

……

(e) State **two** uses of a charged electroscope. **(2mks)**

……

……

……

……

(d) Determine how much charge flows in a circuit if 2 mA current passes in 2.5 minutes. **(2mks)**

……

……

……

……

17. (a) Define the following terms as used in optics; **(4mks)**

(i) Paraxial rays.

……

……

(ii) Principal axis of a convex mirror.

……

……

(iii) Pole.

……

……

(iv) Focal length.

……

……

(b) State **one** effect of rectilinear propagation of light. **(1mk)**

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

The figure 6 below shows an incomplete periscope.

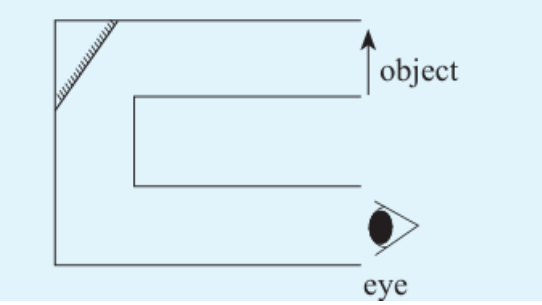


Figure 6

(a) Draw the second mirror. **(1mk)**

(b) Complete the diagram to show how the eye views the object. **(2mks)**

(c) State and explain the disadvantage of this periscope**.** **(1mk)**

(d) State and explain an advantage of using glass prisms rather than plane mirrors in a periscope. **(1mk)**

……

……

……

……

(c) State **two** ways the pinhole camera can be modified to take still photographs. **(2mks)**

……

……

……

……

9. (a)A butcher has two masses; 2 kg and 0.5 kg. Explain how he can weigh 1.5 kg of beef at once from a beam balance. **(2mks)**

……

……

……

……

……

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

(b) Figure 7 shows a machine.

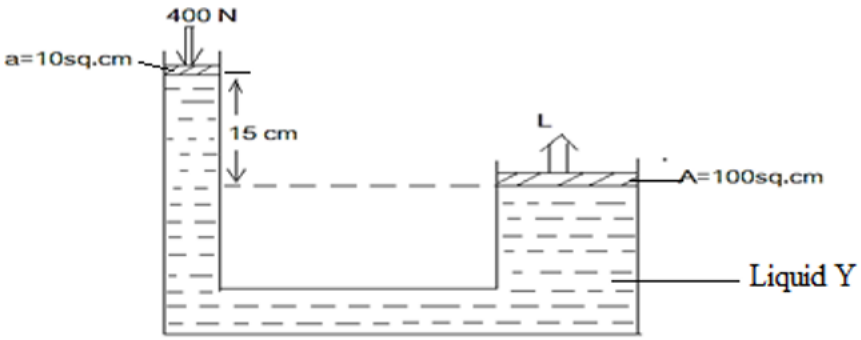


Figure 7

(v) State the name of the machine. **(1mk)**

……

……

(vi) Name the principle governing its functioning. **(1mk)**

……

……

(vii) Determine the maximum load that can be raised by the machine if the liquid used had a density of 1200 kg/m^3 **(3mks)**

(viii) State **three** properties of liquid Y.

(ix) State an advantage of force pump over lift pump. **(1mk)**

……

……

THIS IS THE LAST PRINTED PAGE

Prefer Calling Amobi Group of Examiners @ 0743 333 000 or 0706 851 439 for Marking Schemes

Amobi Group Of Examiners

Call Us @

0743 333 000 or 0706 851 439

CALL 0743 333 000 OR 0706 851 439

- Mid/End Term, Pre/Mock Exams
- K.C.S.E Prediction/Forecast Exams
- F1-F4 All Subjects Notes/Topical Qsns
- Updated Schemes of Work/Syllabus
- Acted Set Books Videos/ Guides
- Set Books Essays/Excerpts Qsns
- Past K.C.S.E Papers & Holiday Assignments
- 70 Biology Graphical/Essays Qsns
- 70 Biology Pictorial Practical Qsns
- Poetry & Ushairi Qsns.... e.t.c