

FORM 1 MID-TERM 2 EXAMS

ALL SUBJECTS

*Series 2 Compilation of Standard set of Mid-Term 2 Examinations
for the Current Class for all High Schools in the Republic of Kenya.*

SUBJECTS TESTED;

*Mathematics, English, Kiswahili, Biology, Chemistry, Physics, CRE,
Geography, History, Business Studies, Computer Studies, Home-Science,
French & Agriculture.*

SERIES 2

For Marking Schemes / Answers

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MWALIMU CONSULTANCY

FORM 1 MID-TERM 2 EXAMS

SERIES 2

BIOLOGY

TIME: 2 HOURS

NAME..... ADM NO;

CLASS..... DATE.....

FOR EXAMINER'S USE ONLY

QUESTION	MAX. SCORE	CANDIDATE'S SCORE
1 - 24	80	

QUESTIONS

1. i) Explain two main branches of Biology. (2mks)

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2. Name the cell organelle which would be abundant in: (2mks)

i) Sperm cell:

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ii) Pancreas:

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3. What is the name given to the study of; (3mks)

Fungi

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Cells

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Tissues

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4. Give reason why each of the steps is followed when preparing a cross section of a leaf for examination under a microscope. (2mks)

a) Cutting very thin sections

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b) Using sharp razor blade when cutting

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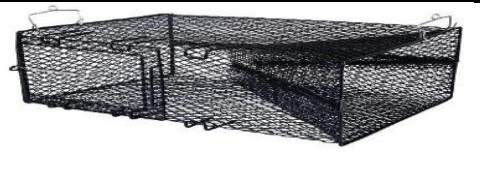
5. State three importance of osmosis in plants (3mks)

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6. a) Name the following apparatus used in specimen collection and for each, mention its function. (6mks)

Name	Apparatus	Function
		
		
		

b.) State four precautions during collection and observation of specimen. (4mks)

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7. Differentiate between plants and animals in terms of nutrition. (2mks)

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8. Define the term species. (2mks)

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9. State **three principles of binomial nomenclature (3mks)**

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10. Name the tissue in plants responsible for.

a) Transport of water and mineral salts. (1mk)

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b) Transport of synthesized food substances. (1mk)

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11. State the functions of the following cell organelles.

a) Golgi apparatus. (1mk)

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b) Ribosomes (1mk)

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c) Lysosomes (1mk)

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12. Name the organelle which carry out the following functions in a cell

(a) Transport of lipids (1mk)

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(b) Formation of cilia and flagella (1mk)

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13. The table shows substances at different concentrations between sea-water and the cell sap of the root hair cells of sea weeds.

Substance	Iodine	Phosphorus	Potassium
Concentration in sea water	20	50	33
Concentration in sea weed root hair cell	40	42	21

a.) Name the process by which;

i. The iodine molecules were absorbed by the root hair cell (1mk)

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ii. The phosphorus molecules were absorbed by the root hair cell. (1mk)

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14. State four importance of studying Biology. (4mks)

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15. Give three properties of a cell membrane. (3mks)

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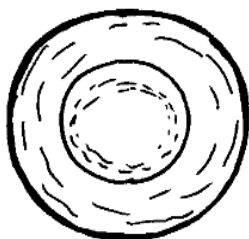
16. Explain three roles of diffusion in animals. (2mks)

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17. The diagram below a red blood cell that was subjected to a certain treatment.



At start



at the end of experiment

a) Account for shape of the cell at the end of the experiment. (2mks)

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b) Draw a diagram to illustrate how a plant cell would appear if subjected to the same treatment (1mk)

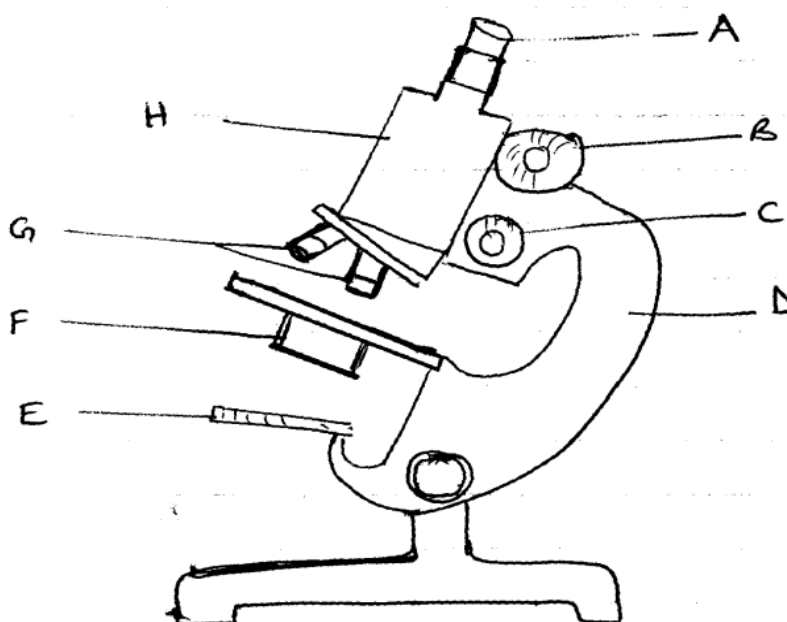
18. Plant cells do not burst when immersed in distilled water. Explain (2mks)

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19. The following is a diagram of a light microscope.



a) Name the parts labeled A, B, C, D and E. (5mks)

A.....

B.....

C.....

D.....

E.....

b) State the functions of parts labeled F and G (2mks)

F

G

c.) State the formular for calculating magnification in a Light Microscope. (1mk)

20. Name the organelle that Contains enzymes that are capable of destroying old damaged cell.
(1mk)

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21. The scientific name for beans is Phaseolus vulgaris

a) What taxa does the term Phaseolus represent (1mk)

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b) State **two** rules that are followed when giving a scientific name to an organism (2mks)

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23. List four careers that require knowledge in biology (4mks)

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24. Classify the following organisms into their kingdoms (4mks)

Organisms

Kingdom

a) Maize, Beans

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b) Mushrooms, Yeast

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c) Protozoa, algae

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d) Bacteria

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FORM 1 MID-TERM 2 EXAMS

SERIES 2

CHEMISTRY

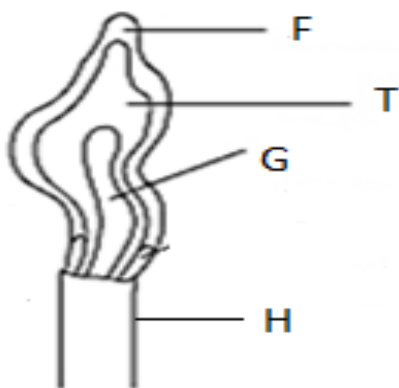
TIME: 2 HOURS

NAME..... ADM NO;

CLASS..... DATE.....

Answer All Questions In The Spaces Provided

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



(a) Name the type of flame shown and give a reason. (2mks)

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(b) Name the parts labelled F and G. (2mks)

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(c) State the three differences between the two flames of a Bunsen burner (3Mks)

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2. State the best method to separate the following mixtures (3Mks)

(a) Components of crude oil

(b) benzoic acid and sodium chloride

(c) Iron filings and Sulphur

3. Draw and state one use of the following apparatus. (2mks)

(a) Deflagrating spoon

(b) Mortar and pestle

4. State three roles of chemistry as a subject to the society (3mks)

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6.(a) Define the following terms (2mks)

(i) Drug

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(ii) Drug abuse

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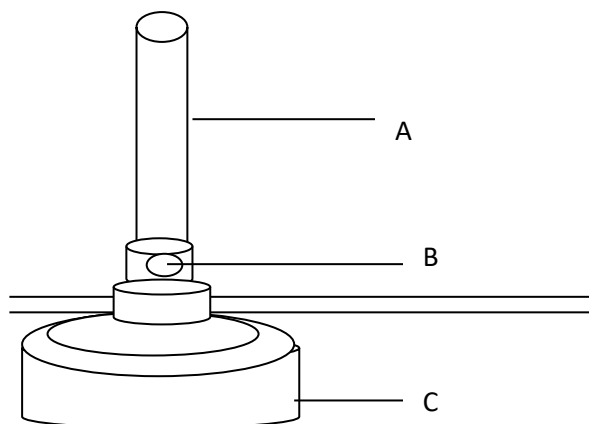
(b) State two effects of drug abuse to the consumer **(2mks)**

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7. Highlight five laboratory safety rules **(5mks)**

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8. The diagram below shows parts of a Bunsen burner.



a) Name the parts labelled A , B **(1 mark)**

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b) Give one use of the part labelled A **(1 mark)**

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9. Explain why most laboratory apparatus are made of glass **(3mks)**

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10.(a) Define the term prescription drugs and over the counter drugs (2mks)

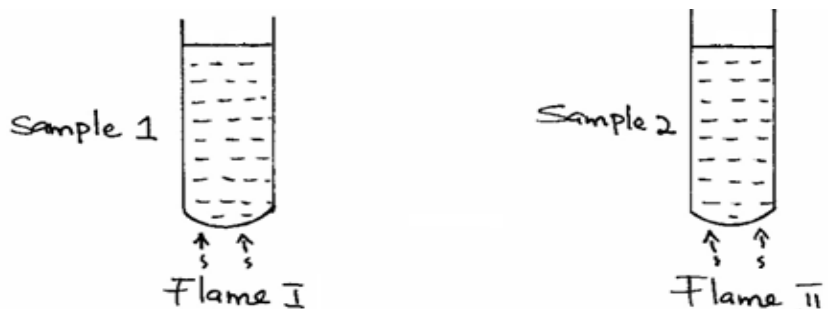
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b) State one effect of drugs (1mk)

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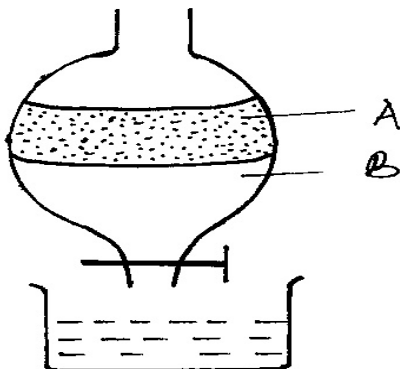
11.(a) A patient was given tablets with prescription 2 x 3 on the envelope. Clearly outline how the patient should take the tablets. (1 mark)

(b) Two samples of equal volumes of water were put in 250cm³ beaker and heated for 10 minutes. Sample 1 registered a higher temperature than sample 2.



State the condition under which flame I is produced in Bunsen burner. (1 mark)

12. The apparatus below was used to separate a mixture of liquid A and B.



State two properties of the liquids that make it possible to separate them using such apparatus.

(2 marks)

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13. Describe the procedure of separating a mixture of sand and **water**

(4mks)

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15. State two laboratory rules to observe when preparing a **poisonous** gas.

(2mks)

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16.a) Describe how to light and obtain a non- luminous flame from a Bunsen burner.

(3 mks)

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b) State one disadvantage of the flame obtained above.

(1 mk)

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17. **State** the type of changes undergone by the following substance,

a) Obtaining kerosene from crude oil.

(1 mk)

b) Souring of milk.

(1 mk)

18. The table below shows information about three solid substances A, B and C. Study it and answer the question that follow.

SOLID A	COLD WATER	HOT WATER
A	Soluble	Soluble
B	Insoluble	Insoluble
C	Insoluble	Soluble

Describe how you will separate the three solids from a mixture of these three. (3mks)

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19. Given iron fillings, a crucible, a plain piece of paper, sulphur powder, magnet , a source of heat and any other laboratory apparatus, explain how you can distinguish between a mixture and a compound (3mk)

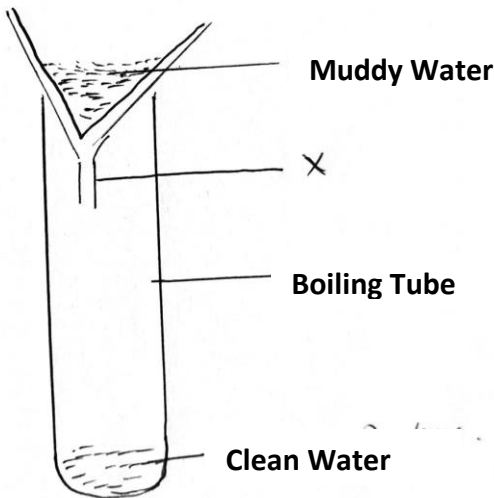
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20. The diagram below shows how muddy water can be made clean. Study it and answer the questions that follow.



(a) Name the apparatus labeled X. (1 mk)

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(b) Give the advantage of the above process over decantation (1mk)

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22. In the process of separating or extracting oil from castor oil seeds in the laboratory, students from Anestar schools crushed the seed sand then added propanone (acetone) instead of water.

(a) Why were the seeds first crushed? (1 mk)

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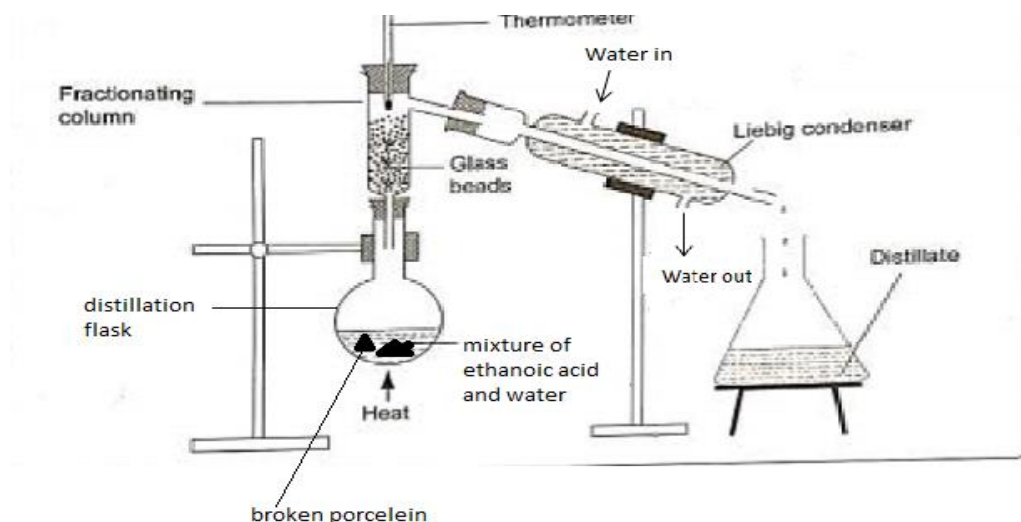
(b) Explain how the oil can be separated from propanone. (2 mks)

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23. The diagram below shows a set up that was used by a student to separate a mixture of water and ethanoic acid. Study it and answer the questions that follow. (Boiling point water = 100°C , ethanoic acid = 118°C)



a. State one mistake in the set up. (1mk)

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b. Which component of the mixture will be collected first and why? **(2mks)**

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c. What are the roles of the following; **(3mks)**

i. Thermometer

ii. Liebig condenser

iii. Pieces of broken porcelain

d. Why is it preferable for the distillation flask to be round- bottomed rather than flat bottomed rather than flat bottomed? **(1mk)**

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e. At what point does one know that the entire first fraction has been removed from the distillation flask. Explain. **(2mk)**

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24. State the three states of matter **(1mk)**

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FORM 1 MID-TERM 2 EXAMS

SERIES 2

PHYSICS

TIME: 2 HOURS

NAME..... ADM NO;

CLASS..... DATE.....

INSTRUCTIONS TO CANDIDATES

- a) Write your name and Adm No in the spaces provided above*
- b) Answer all questions in the spaces below each question.*
- c) For numerical questions, show all your working*
- d) Maths table may be used for calculation*

QUESTIONS	MAX SCORE	CANDIDATE SCORE
1	7	
2	8	
3	8	
4	19	
5	7	
6	5	
7	5	
8	8	
9	7	
10	6	
TOTAL	80	

1. (a) Define physics

(1mk)

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(b) Give three examples of natural phenomena in which physics can be used to explain their occurrence

(3mks)

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(c) State any three activities one is engaged in when conducting an experiment in physics (3mks)

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2. (a) Name five (5) major branches of **physics**

(5mks)

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(b) Explain how physics is related to the following **subjects**

(3mks)

i. History

ii. Mathematics

iii. Home science

3. (a) Define Laboratory (2mks)

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(b) List down any three basic requirements for a working school laboratory (3mks)

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(c.) Explain the first aid measures to be undertaken if the following calamities / accidents befall a student.

a. Cuts (1mk)

b. Eye damage (1mk)

c. Electric shock (1mk)

4. (a) The following table shows some basic physical quantities in PHYSICS. Fill in the blank spaces (4mks)

Basic physical quantities	SI Unit	Symbol of unit
Length		
		Kg
	Seconds	
	Kelvin	

(b) Show how the named derived quantities are derived from the basic physical quantities.

a. AREA (2mks)

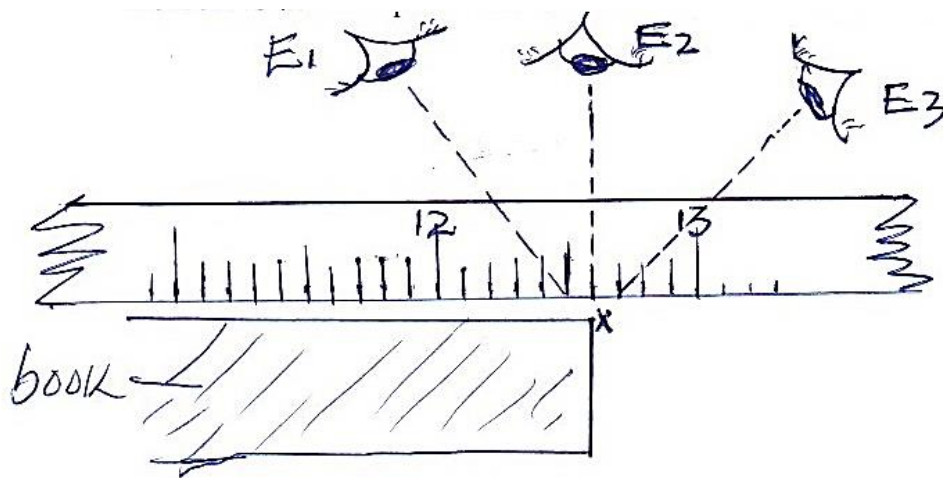
b. VOLUME

(2mks)

c. DENSITY

(2mks)

(c) A form one student used a metre rule to measure the width of a textbook as shown below. Point x is the end point of the text book from where the student read the width.



i. From which position did he read the correct width of the text book?

(1mk)

ii. State the correct width he read

(1mk)

iii. Which is the name of the error he would engage in if he used any of the other two positions

(1mk)

(d) A form one student was asked to estimate the circumference of a cylinder using, a thin thread and a meter rule. Describe using a diagram how he measured and estimated the circumference
(6mks)

5. (a) Define density and state it's SI units **(2mks)**

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(b) A block of glass of mass 240g is 5cm long, 2 cm thick and 8 cm high. Determine:

a. The volume of the block **(2mks)**

b. The density of the glass block in kg/m^3 **(3mks)**

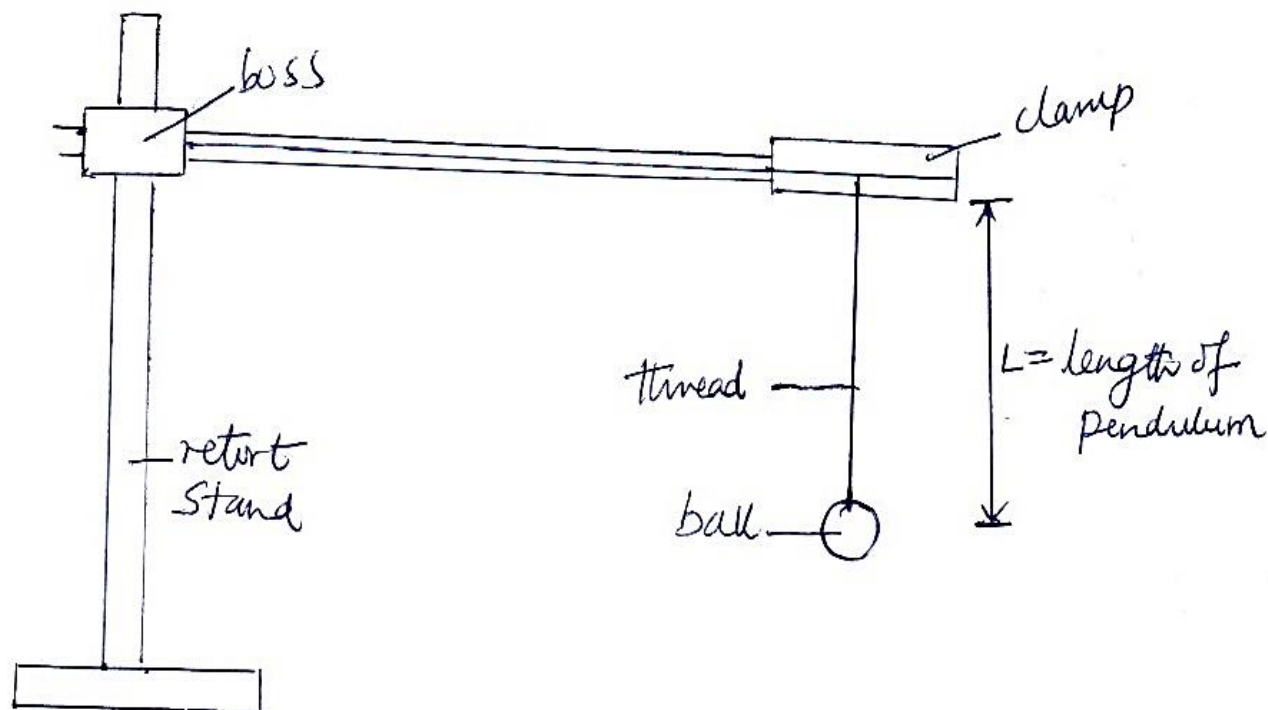
6. The mass of an empty density bottle is 20g. Its mass when filled with water is 40.0g and 50.0g when filled with liquid X. Calculate

i. Volume of water (density of water is 1g/cm^3) (2mks).

ii. Density of liquid X (3mks).

7. (a) Define Time, stating its **SI unit**. (2mks)

(b) A form one student had the following set up to do an experiment to determine the time taken to complete one oscillation by a pendulum ball. She also had a Stopwatch.



She timed 3 times for the time taken to complete 10 oscillations and recorded in the table below.

Trial	1	2	3
Time taken for 10 oscillations (sec)	5.5	5.6	5.7

Calculate

a. Average time for 10 oscillations (1mk)

b. Time taken to complete one oscillation (2mks)

8. (a) Define force, stating it's SI units (2mks)

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(b) Draw and name the instrument used to measure a force (3mks)

(c) State three (3) effects of a force on a **body**. (3mks)

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9. (a) Define the following types of forces

a. Cohesion (1mk)

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b. Adhesion (1mk)

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(b) State 2 factors affecting surface tension (2mks)

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(c) List down three differences between Mass and weight in the table below (3mks)

Mass	Weight

10. The weight of an object on the Earth's surface is 400N.

a. Calculate it's mass ($g=10\text{N/kg}$) (2mk)

b. The same object weighed 68N on the surface of the moon. Calculate gravitational field strength of the **moon** (2mks)

11. Show diagrammatically how forces of 13N and 8N can be combined to give a resultant force of

a. 21N (1mk)

b. 5N (1mk)

FORM 1 MID-TERM 2 EXAMS

SERIES 2

AGRICULTURE

TIME: 2 HOURS

NAME..... ADM NO;

CLASS..... DATE.....

443

AGRICULTURE

FORM ONE

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES:

- a) Write your name and admission number in the spaces provided*
- b) This paper consists of three sections; A, B and C*
- c) Answer ALL the questions in sections A, B and C*
- d) All answers to be written in English*

FOR OFFICIAL USE ONLY

SECTION	QUESTION	MAX. SCORE	CANDIDATE SCORE
A	1 – 15	50	
B	16 – 18	20	
C	19 – 22	30	
	TOTAL	100	

SECTION A (50 MKS)

Answer All Questions In The Spaces Provided

1. Define the term livestock farming (2mks)

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2. Differentiate between organic farming and shifting cultivation (2mks)

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3. Define the following terms as used in agricultural production

a) Floriculture (2mks)

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b) Apiculture (2mks)

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c) Olericulture (2mks)

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d) Agricultural economics (2mks)

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4. Give four examples that show agriculture is an art (4mks)

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5. State four environmental factors that influence agricultural production (4mks)

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6. State four aspects of rainfall that a farmer may consider when deciding on what crop to grow in an area (4mks)

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7. Differentiate between crop pathology and entomology as used in agricultural production. (2mks)

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8. State four effects of HIV and AIDS and ill health in agriculture. (4mks)

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9. Classify plants into three categories according to their light requirements (3mks)

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10. What is agro-forestry (2mks)

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11. What is mixed farming **(2mks)**

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12. State five soil constituents **(5mks)**

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13. State three functions of water in plants **(3mks)**

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14. State four factors that influence soil formation **(4mks)**

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15. Define the term ranching. **(1mks)**

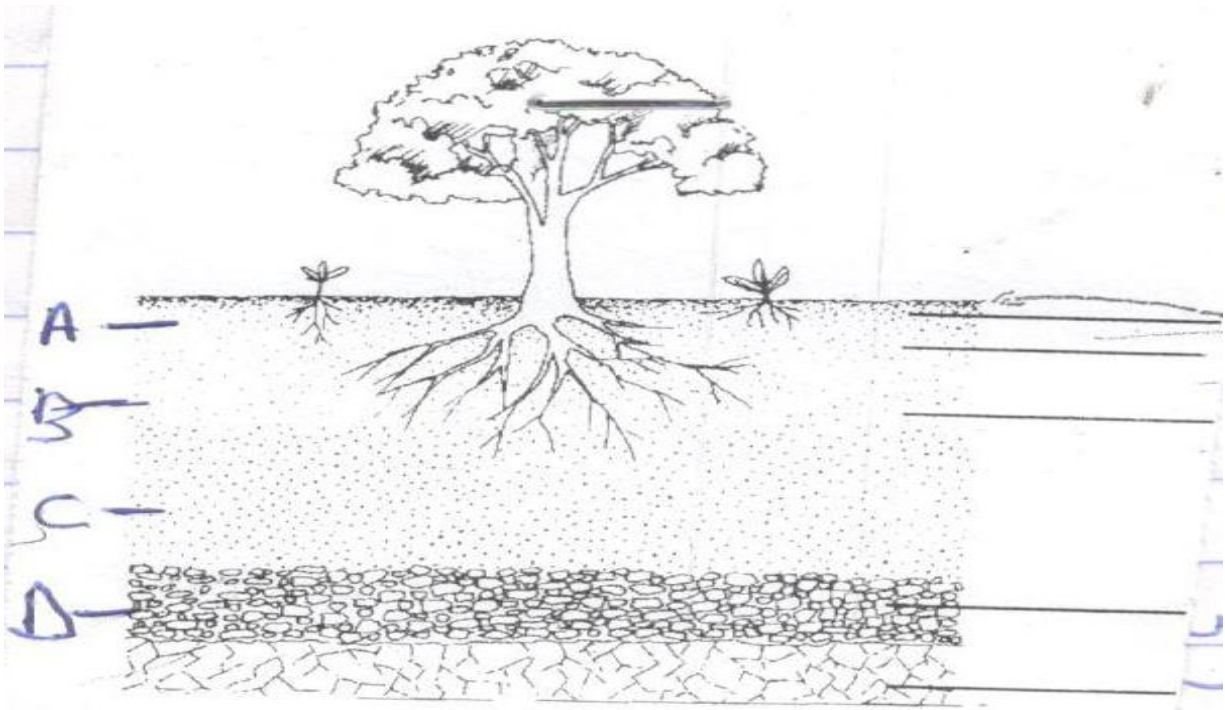
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SECTION B (20 MKS)

ANSWER ALL QUESTIONS IN THE SPACES PROVIDED

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



(a) Name the soil layers A-D .

(4mks)

A.....

B.....

C.....

D.....

(b) i) Which is the best layer to carry out agricultural production

(1mks)

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ii) Give a reason for the above

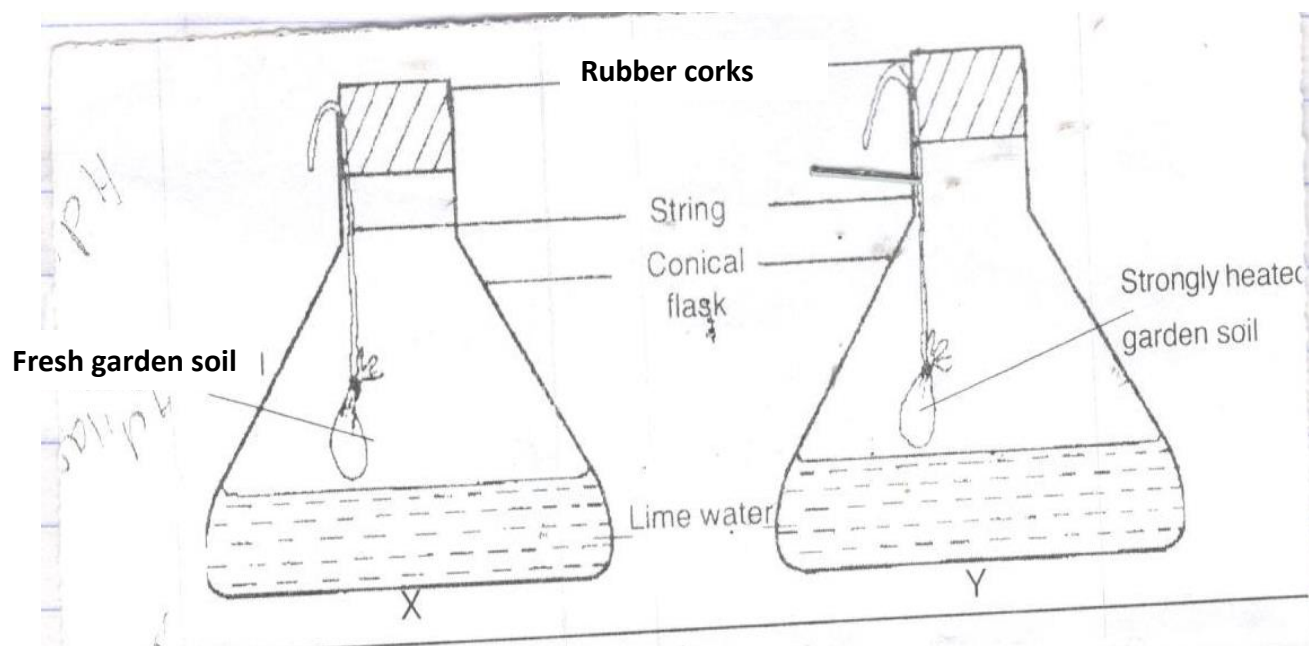
(2mks)

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17. Form one students from Mungu-ini Secondary school set an experiment as to investigate a soil constituent .Study it and answer the questions that follow.



- i) What was the aim of the experiment (2mks)

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- ii) What observation was made in flask X and flask Y

X (2mks)

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Y (2mks)

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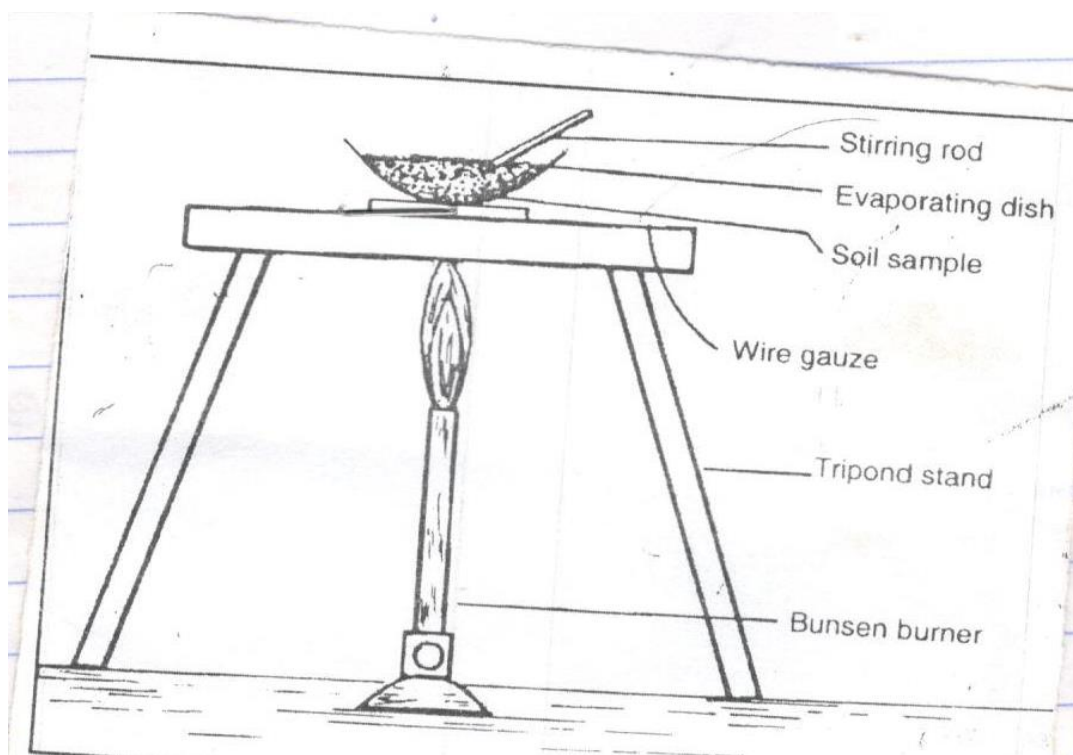
- iii) Give a reason for each of the above observations. (2mks)

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18. The diagram below illustrates an investigation on a property of soil using a sample of soil. Study it and answer the questions that follow;



- (a) What was the aim of the experiment? (2mks)

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- (b) If the mass of the evaporating dish and the fresh soil was 300g, the mass of the evaporating dish and the dry soil after heating was 250g and the mass of the evaporating dish was 50g. Calculate the percentage of water by mass present in the sample soil of show your working (3mks)

SECTION C (30 MKS)

Answer All Questions in The Spaces Provided

19. State and explain six reasons why agriculture is important in Kenya's economy **(12mks)**

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20. State and explain five ways in which biotic factors influence agricultural production **(10mks)**

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21. State five ways in which high temperatures affect agricultural production in Kenya (5mks)

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22. State three reasons for growing crops under optimum temperature conditions (3mks)

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FORM 1 MID-TERM 2 EXAMS

SERIES 2

BUSINESS STUDIES

TIME: 2 HOURS

NAME..... ADM NO;

CLASS..... DATE.....

Answer All Questions In This Paper

1. Give a term as used in business studies described below. (5 marks)

	Description	Term
a)	Movement from producer to consumer	
b)	Activity carried out by an organization for profit	
c)	The process of increasing the usefulness of a good	
d)	Actions by an individual that can be sold	
e)	The final use of a good or service	

2. List five activities that take place during distribution. (5 marks)

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3. Highlight five external factors that affect the operations of a business (5 marks)

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4. Highlight five characteristics of human wants. (5 marks)

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5. Differentiate between a good and a service. (5 marks)

Goods	Services

6. Explain five benefits that would accrue to a business studies student after school. (10 marks)

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7. Highlight five reasons why the government protect forests (5 marks)

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8. Name the type of utility associated with the following business activities. (5 marks)

	Activity	Type of utility
a)	Cooking chapati using wheat flour	
b)	Delivering Inventor Book 1 text books to school	
c)	Making students' chair from a sheet of metal	
d)	Buying a geometrical set from a bookshop	
e)	Packing snacks for your pre-school sister to use at break time in her lunch box.	

9. Highlight five characteristics of direct production (5 marks)

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10. Explain five constituents of business studies. (10 marks)

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11. In the table below, indicate the type of business activity represented by the actions given. (10 marks)

	Activity	Type of business activity
a)	Lumbering	
b)	Fishing	
c)	Teaching	
d)	Selling sweets in a kiosk	
e)	Buying dresses at Kshs. 200 each and selling for Kshs 500 each	
f)	Building a house	
g)	Grinding maize into flour	
h)	Making chapati	
i)	Wholesaling	
j)	Levelling of local road using murram	

12. Identify four factors of production and in each case give their rewards (4 marks)

Factors of production	Rewards

13. Highlight four ways on how efficiency of labour may be improved. (4 marks)

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14. Highlight five disadvantages of specialization **(5 marks)**

[illegible]

15. With examples, explain five types of good and services produced in an economy. (10 marks)

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16. Define the following terms as used in business studies.

(3 marks)

a) Scarcity

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b) Choice

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c) Opportunity cost

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17. Highlight four negative effects of production on community.

(4 marks)

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FORM 1 MID-TERM 2 EXAMS

SERIES 2

COMPUTER STUDIES

TIME: 2 HOURS

NAME..... ADM NO;

CLASS..... DATE.....

QUESTIONS

1. Define the following terms as used in Computer Studies.

Computer (2mks)

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Computer laboratory (2mks)

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Data Interface cables (2mks)

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Peripheral devices (2mks)

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System unit (2mks)

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Data

(2mks)

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Information

(2mks)

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2. Describe four physical parts of a computer.

(8mks)

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3. State six features or characteristics of a computer that make it better than human beings. (6mks)

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4. a) What is CPU?

(2mks)

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b) Write the following components of the CPU in full:

(6mks)

RAM

CU

ALU

c) Name and explain three different ways of classifying computers.

(6mks)

5. State five characteristics of the first generation computers.

(5mks)

6. With the aid of diagrams illustrate the difference between analog and digital data signal. **(4mks)**

7. Give five advantages and five disadvantages of using computer today. **(10mks)**

Advantages

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Disadvantages

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8. List and explain five areas a computer can be used in our society today. **(10mks)**

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9. a) State four factors to be considered when preparing a computer lab. (4mks)

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b) Outline five measures that should be put in place to ensure the security of the computers in the lab. (5mks)

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d) State five measures that should be put in place to ensure the security of the users in the lab. (5mks)

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10. a) What is booting? (2mks)

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b) List and explain two types of booting. (4mks)

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11. a) Apart from a keyboard, List six examples of input devices. (6mks)

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b) Give five categories of keys found on a standard keyboard. (5mks)

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12. a) Define the term output device. (2mks)

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b) List four examples of output devices. (2mks)

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FORM 1 MID-TERM 2 EXAMS

SERIES 2

CHRISTIAN RELIGIOUS EDUCATION

TIME: 2 HOURS

NAME..... ADM NO;

CLASS..... DATE.....

INSTRUCTIONS: Answer ALL five questions

1a) Give FIVE ways in which the God reveals Himself to humankind. (5mks)

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b) State SIX reasons why the study of CRE is important in Kenyan schools (6mks)

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c) List FIVE nationals' goals of education. (5mks)

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2 a) Why is the bible referred to as God's word

(10mks)

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b) Give FIVE reasons why it is important for Christians should read the Bible.

(10mks)

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c) Identify SIX human authors in the Bible

(5mks)

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3 a) Giving examples identify **EIGHT** literary forms used by writers of the Bible **(8mks)**

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b) Name **FIVE** Deutro-Canonical **books** **(5mks)**

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c) State **SEVEN** effects of Bible translation to African languages. **(7mks)**

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4 a) Give a record account of the first creation story. (7mks)

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b) Give SEVEN differences between the first and second account of creation stories. (7mks)

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c) With reference to the Genesis stories of creation in Chapter 1 and 2 outline the attributes of God (7mks)

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5 a) Outline FIVE teachings from the Biblical accounts of creation

(10mks)

[illegible]

b) With reference to the story of the fall of human beings in Genesis 3, state four effects of sin on Adam and Eve. (8mks)

[illegible]

FORM 1 MID-TERM 2 EXAMS

SERIES 2

ENGLISH

TIME: 2 HOURS

NAME..... ADM NO;

CLASS..... DATE.....

INSTRUCTIONS TO CANDIDATES

- *Write your name and Index number in the spaces provided above. Sign and write the date of examination in the spaces provided above.*
- *Answer ALL the questions in this question paper*
- *ALL your answers must be written in the spaces provided in this question paper.*

EXAMINERS USE.

QUESTION	MAXIMUM SCORE	CANDIDATES SCORE
1	20	
2	10	
3	30	
4	20	
TOTAL	80	

1. COMPREHENSION PASSAGE

(20 MARKS)

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

Discipline is something that we have all experienced personally in different forms, seen used on others, and is also something that many of us will go on to use later in life, both in the form of self-discipline and as something to keep children and even employees in check. It is essential to life as we know it, and we need it in its many different forms in many different situations.

The first reason that discipline is so important is that we all need to exercise self-discipline to be successful in life. Self-discipline can mean very different things to different people; for students, for example, self-discipline is often about motivating yourself and making yourself concentrate on your studies and get your assignments in on time. For working people, it can be as simple as getting up on time every morning, however tired you may be and how much you may hate your job, getting to work on time and doing your job. Without this kind of self-discipline, people would not be able to enjoy academic success, or be successful in their careers either.

Self-discipline is also required for dieters and anyone doing regular exercise, because given the chance, most of us would prefer to be lazy rather than get up and exercise, and eat burgers and fries rather than healthy food. Without it, even more people would be fat and unhealthy, and a lack of self-discipline in some people certainly contributes to the obesity crisis.

Discipline is also something that needs to be used on others where necessary. If parents didn't discipline their children when they were naughty, children wouldn't grow up knowing right from wrong, or be able to become productive members of society who contribute to the system. Equally, schoolteachers need to be able to dish out punishments to children who don't behave themselves. Without discipline in the classroom, there would be a great deal of **disruption** and nobody would ever learn anything. Indeed, teachers who struggle to command the respect of students and who fail to use discipline effectively will often have trouble even making themselves heard in a classroom.

In the workplace, discipline is also essential to maintaining a hierarchy and dealing with employees who do not follow company policies and procedures, regularly arrive late or not at all, or treat their co-workers unfairly. Then, you have to consider that without discipline, there would be no law enforcement. Murderers would be **roaming** the streets and everybody would be stealing from each other, because there would be no consequences for their actions.

Discipline acts as a **vital** deterrent to stop children being naughty, people from missing work, and even potential criminals from stealing and killing, and for this reason it is vital in human society.

QUESTIONS

(a) In which forms can discipline be used later in life of a person?

(2marks)

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(b) What would become of naughty children if parents didn't discipline them according to the passage? **(2marks)**

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(c) What does self-discipline mean to a student according to the passage? **(2marks)**

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(d) In note form, state the reasons for discipline. **(4marks)**

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(e) How does absence of discipline lead to no law enforcement according to the passage? **(3mk)**

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(f) What **three** things does discipline restrict one from doing according to the passage? **(3marks)**

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- (g) **Equally**, schoolteachers need to be able to dish out punishments to children who don't behave themselves. (1mark)

Replace the word in bold with a word with similar meaning.

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- (h) Explain the meaning of the following expressions As used in the passage. (3marks)

i) Disruption

ii) Vital

iii) Roaming

CLOZE TEST

Read the passage below and then fill the gaps with the most appropriate words. Use only ONE word in each space. (10marks)

A school is place of learning for a child. It is a training ground for him. Here he forms new associates, comes in contact with students of different temperaments and forms new ideas and habits. It is here that he prepares ...1.....for the stage of life. So the right type of educational school is for great importance for him. I was enrolled in a school ...2.....the age of five. It was a primary school. The memory of my first day in school is still ...3.....in my mind. It was a small school with eight rooms. There ...4.....ten teachers including the physical instructor. The headmaster's office was separate. The school ...5.....a compound with lush green lawns and flowers bedded. My father took me to the headmaster's office and got me admitted in the school. He ...6.....me a packet of toffees to be distributed among my classmates. My class teacher was very gentle. He encouraged me ...7.....treated me kindly. I felt a bit nervous in the new environment. The boys ...8.....at me with wonder and smiled. I had with me English primer and got my first lesson in alphabet. The bell for interval rang. The boys rushed out of the classrooms. Some of them gathered round me. They laughed at me and ...9.....fun of me. A few sympathized with me and befriended me. I had a novel experience. The last bell went at three in the afternoon. All the boys felt very happy. I also took my bag and hurried10.....to my home.

1. ORAL SKILLS 30MARKS

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

Today, the weather feels like heaven's bliss!
The balmy breeze and beautiful soft blue
Of sky above so makes me think of love.
I feel time's right to write a charming poem
Alone, together with my thoughtful views;
The day's bright glow morphs into sunny smiles
As sun speaks out to tell me all's okay.
Free gift, true fact, sun is my greatest joy!
Oh loveliness of day you melt my heart!
The words are humming, coming to my mind...
Not nasty, snippy ones, evoked by rain,
But sweet, melodious, soft, sing-song ones
That move what's seen to my poetic scene
To pant such happiness when weather's fine

i) Identify a word from the poem that is pronounced the same way as: **(6marks)**

I. Rite

II. Blew

III. Son
.....

IV. Seen
.....

V. Whether

VI. Reign

ii) Write words that begin in the same sound in the following lines of the poem. **(4marks)**

I. Line 2
.....

II. Line 4
.....

III. Line 8
.....

IV. Line 12
.....

(b) Underline the letter(s) that you don't pronounce in each of the following words. **(6marks)**

- i. Wednesday
- ii. Guest
- iii. Campaign
- iv. Architect
- v. Knew
- vi. Hymn

(c) Fill in the blank space with the more appropriate word. **(5marks)**

- i) Everyone attended the (fist, feast)
- ii) Look at your! Wash them before you come in. (feet, fit)
- iii)the door again. (pull, pool)
- iv) I will attend the lesson..... I miss a big opportunity. (lest, list)
- v) Planting onemay be unnecessary at this time. (been, bean)

(d) Jane is believed to be a slow reader. Suggest **three** ways she can use to increase her reading speed. **(3marks)**

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(e) Read the riddling convention below and then identify the parts that follow. **(6marks)**

Challenger: Riddle, riddle!

Respondent: Riddle come.

Challenger: What is full of holes but still holds water?

Respondent: A rack

Challenger: You are wrong. Try again.

Respondent: A bed sheet.

Challenger: Give me a prize.

Respondent: We have given you a boat.

Challenger: The answer is a sponge.

- i. Guesses
- ii. Invitation
- iii. Solution
- iv. Pose
-
- v. Challenge
- vi. Prize

2. GRAMMAR 20MARKS

(a) Use **a, an, the** to fill the blank space. (5marks)

- i. They are coming toparty next weekend.
- ii. Did you buynew car yesterday?
- iii. I feelman over there is mad.
- iv. I watched video you had sent me.
- v. He was wearingugly shirt when we met.

(b) Use the most suitable form of the word in bracket to complete the sentence. (5marks)

- i) The boy is suffering from a very serious (ill)
- ii)is what the teacher asks of us. (obey)
- iii) We thoughthad long been abolished. (slave)
- iv) Doing that work called for (strong)
- v) He will pay for his (cruel)

(c) Fill in the most suitable form of the verb in brackets. (5marks)

- i. The teacherthe boy for coming to school late. (punish)
- ii. The teacher you anytime you pass your exams. (award)
- iii. The little girl.....at the boy who fell down because she was sorry for him. (laugh)
- iv. Theyyou from far last night. (see)
- v. One reason she is loved by all is that shelies. (tell)

(d) Rewrite by replacing the words in bold with their equivalent pronouns. (5marks)

i. My name is Joseph and **Joseph** is a Nigerian.

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ii. We visit **my grandparents** often.

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.....

iii. Let **Lencer** help you carry these bags.

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.....

iv. Can **Kevin and I** help you throw away the flowers?

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.....

v. **Tom and Mary** have football practice.

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FORM 1 MID-TERM 2 EXAMS

SERIES 2

GEOGRAPHY

TIME: 2 HOURS

NAME..... ADM NO;

CLASS..... DATE.....

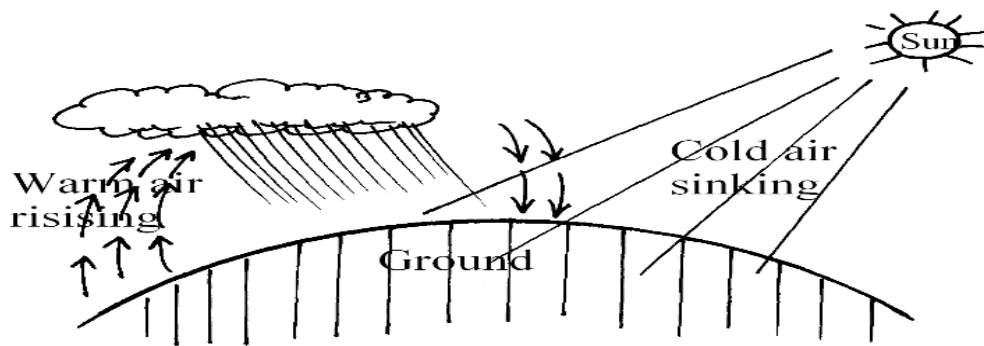
SECTION A

1. (a) Give two Greek words from which the term geography was coined. (2mks)
(b) Define the term geography. (2mks)
2. (a) What is environment? (2mks)
(b) Describe the following types of environment giving example in each case. (4mks)
3. (a) Name three main components of the universe. (3mks)
(b) Apart from the moon, give two other natural satellites. (2mks)
4. (a) Explain the relationship between geography and mathematics. (2mks)
(b) Name three study areas under human geography. (3mks)
5. State five reasons why the study of geography is important. (5mks)

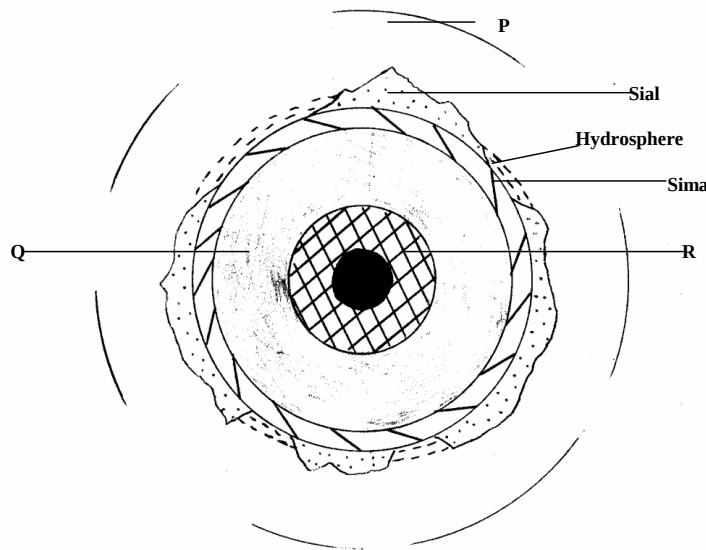
SECTION B

Answer all the questions in this section

6. (a) (i) What is a weather station? (2mks)
(ii) State four factors considered when citing a weather station. (4mks)
- (b) The diagram below show the formation of some type of rainfall .Use it to answer questions
(i) and (ii)



- (i) Name the type of rainfall shown by this diagram. (1mk)
 - (ii) Name the type of cloud marked. (1mk)
 - (iii) List three weather conditions associated with the above named type of rainfall. (3mks)
 - (iv) Give two factors that influence rainfall. (2mks)
 - (c) (i) Define the term humidity. (2mks)
 - (ii) Name two types of humidity. (2mks)
 - (iii) Explain three roles of moisture in the atmosphere. (6mks)
 - (d) State three factors that influence air temperature. (3mks)
7. (a) State three effects of the revolution of the Earth on its Orbit. (3mks)
- (b) The diagram below shows the structure of the Earth. Use it to answer questions below:



- (i) Name the parts marked **P, Q** and **R** (3mks)
- (ii) State three characteristics of the earth's oceanic crust (sima) (3mks)
- (iii) State four proofs that the earth is spherical. (4mks)
- (b) (i) Identify the shape of the earth. (2mks)
- (ii) The time at Conakry (Guinea) 10° W is 10.00am. What is the time at Mogadishu 37° E? (2mks)
- (c) (i) Identify **two** types of high level clouds. (2mks)
- (ii) Identify any **three** characteristics of troposphere. (3mks)

FORM 1 MID-TERM 2 EXAMS

SERIES 2

HISTORY AND GOVERNMENT

TIME: 2 HOURS

NAME..... ADM NO;

CLASS..... DATE.....

SECTION A (25 MARKS)

Answer All The Questions

1. Give the meaning of history. (1 mark)
2. State one characteristics of a historical event. (1 mark)
3. Name two main sources of information on history and government (2 mrks)
4. State two disadvantages of relying on oral traditions as a source of history. (2 mrks)
5. Identify two sources of Kenyan history (2 mrks)
6. Give two reasons for studying Government. (2mrks)
7. Identify one branch in the study of History and Government of Kenya (1 mark)
8. Give two forms of Oral traditions, (2mrks)
9. Give two limitations of using anthropology as a source of information on History and Government. (2 mrks)
10. State two ways in which the study of History and Government promotes a sense of patriotism in the learner. (2 mrks)
11. Give two ways in which archaeologists identify a pre-historic site. (2 mrks)
12. Identify one chemical method of dating fossils 1 mark)
13. Identify two pre-historic sites where the remains of Kenyapithecus were discovered.(2 marks)
14. Identify two theories which explain the origin of man. (2 mrks)

SECTION B (55 MARKS)

Answer All The Questions

- 15 a)** Name three- historic sites in Kenya. **(3 mks)**
b) Explain six uses of fire by Early Man. **(12mks)**
- 16 a)** State three theories why Evolution theory was not readily accepted **(3 marks)**
b) Explain six reasons why Africa is considered as original place where man probably lived first/cradleland **(12 marks)**
- 17a)** Identify three species of Homo Sapiens **(3 marks)**
b) Describe the culture of man during the Late/new stone age **(12 marks)**
- 18a)** Mention any two arms of government **(2 marks)**
b) Describe four types of government **(8 marks)**

FORM 1 MID-TERM 2 EXAMS

SERIES 2

HOME-SCIENCE

TIME: 2 HOURS

NAME..... ADM NO;

CLASS..... DATE.....

Answer all questions in the spaces provided

1. Define Homescience. (2mks)

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2. Give any 2 importance of Homescience to the nation. (2mks)

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3. Mention any 3 main areas covered in Homescience. (3mks)

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4. State 4 ways in which athletes foot can be prevented. (4mks)

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5. Mention the 2 main problems of the teeth. (2mks)

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6. Mention any 4 ways of preventing ringworms. (4mks)

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7. Mention any 4 dangers arising from misuse of cosmetics. (4mks)

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8. Mention any 5 anti-social behaviours that adolescents should desist from. (5mks)

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9. State any 5 factors to consider when choosing shoes. (5mks)

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10. Give any 2 reasons for stuffing shoes before storage. **(2mks)**

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11. Give the difference between burns and scalds. **(2mks)**

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12. Define a bruise. **(2mks)**

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13. a) Mention the 2 types of fractures. **(2mks)**

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b) Give 5 ways in which fractures from a fall can be prevented. **(5mks)**

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14. Mention the 3 signs and symptoms of insect stings and bites. **(3mks)**

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15. State any 5 ways of preventing drowning. (5mks)

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16. State the 5 main aims of 1st aid. (5mks)

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17. List and give one use of any 10 items found in a 1st aid box. (10mks)

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18. Mention any 4 prescribed medications that are commonly misused and abused. (4mks)

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19. State and explain the 5 basic instructions on the use of medicine. (10mks)

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20. State any 4 disadvantages of a traditional house. (4mks)

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21. State any 5 disadvantages of renting a house. (5mks)

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22. State any 5 advantages of living in a staff house. (5mks)

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23. State any 5 factors to consider when buying a house. (5mks)

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FORM 1 MID-TERM 2 EXAMS

SERIES 2

FRENCH

TIME: 2 HOURS

NAME..... ADM NO;

CLASS..... DATE.....

Answer all the questions in French

SECTION I GRAMMAR

I Define the following terms

5mks

1. Francophone
2. Lusophone
3. Arabophone
4. Anglophone
5. Linguistics

II Draw and name ‘les accents’ that guide in the pronunciation of French words

5mks

- 1
- 2
- 3
- 4
- 5

III Write the following months in French

10mks

- | | |
|-------------|-------------|
| 1. April | 6. July |
| 2. June | 7. January |
| 3. August | 8. December |
| 4. October | 9. March |
| 5. February | 10. May |

III List down 5 careers associated with the learning of French

5mks

- 1
- 2
- 3
- 4
- 5

IV Write the following expressions in French

5mks

1. Good day
2. See you later
3. Madam Kamau
4. Thank you very much
5. Good afternoon

V Use the correct form of the verb (s'appeler) to fill in the gaps

8mks

1. Elle _____ Mme Oumar
2. La fille _____ Catherine
3. Nous nous _____ hristine et Marie
4. Je _____ Janine
5. Vous vous _____ Coaker et Jean
6. Ils _____ M.et Mme Magu
7. Tu _____ comment?
8. Elles _____ Janice et Dorothee

VI Write down 5 francophone countries found in Africa with their articles

5mks

- 1
- 2
- 3
- 4
- 5
- 6
- 7

8

9

10

VII Fill in with the correct preposition (au, a, en, aux, a la, a l')

7mks

1. J'habite _____ Kampala _____ Ouganda
2. Pierre travaille _____ hopital Pona
3. Nous travaillonils _____ banque
4. Les enfants vont _____ toilettes
5. Marie travaille _____ ville
6. Ils habitant _____ Senegal

VIII Write the days of the week in French

7mks

Monday

Tuesdfay

Wednesday

Thursday

Friday

Saturday

Sunday

IX Write the following figures in French words

10mks

1. 15

2. 45

3. 30

4. 4

5. 7

6. 19

7. 14

8. 21

9. 13

10. 0

IX Fill in with the correct profession in French

5mks

- 1 ils travaillent à la ferme, ils sont _____
- 2 Pierre travaille à l'école. Il est _____
- 3 Marie travaille au bureau. Elle est _____
- 4 Nous travaillons à l'hôpital. Nous sommes _____
- 5 Je travaille à l'aéroport, je suis _____

X Write the nationalities of the people from the countries below as guided

7mks

Ex; le zaire masc/fem _____ zaïrois

1. Le Kenya masc/pluriel
2. Burkina faso fem/sing
3. Amerique fem/pluriel
4. Le Zaire masc/pluriel
5. L'ouganda masc/sing
6. La tunisie fem/sing
7. Le sud-afrique masc/sing

XI Conjugate the verb 'avoir' in present tense

3mks

- | | |
|-------------|----------------|
| 1.j' _____ | 4. Nous _____ |
| 2 tu _____ | 5. Vous _____ |
| 3. il _____ | 6. Elles _____ |

XII Respond to the following questions

3mks

1. Comment tu t'appelles?
2. Ou habitez-vous?
3. Quel age as-tu?

Section II Dictation

5mks

1

2

3

4

5

Section III

Write a composition in French about yourself with the title,

10mks

MOI-MEME

[illegible]

FORM 1 MID-TERM 2 EXAMS

SERIES 2

KISWAHILI

TIME: 2 HOURS

NAME..... ADM NO;

CLASS..... DATE.....

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

Kwa matumizi ya mtahini pekee

SEHEMU	UPEO	ALAMA
A.UFAHAMU	15	
B.MATUMIZI YA LUGHA	40	
C.ISIMUJAMII	10	
D.FASIHI SIMULIZI	15	
JUMLA	80	

Soma taarifa hii kisha ujibu Maswali

Wanafunzi walikuwa *wakiterema* kwa furaha katika ukumbi wa shule. Hii ilikuwa siku yao ya kwanza katika shule ya upili. Waliyasubiri kwa hamu kuu makaribisho rasmi ya mwalimu mkuu wa shule hii yenye sifa kem kem. Muda si muda mlango ulifunguliwa. Sauti zilizokuwa juu *zilinywea*. Wanafunzi wote waliyaelekeza macho mlangoni. Mwalimu mkuu aliingia. Alikohoa kidogo kulisafisha koo kisha akasema, “ Wanafunzi wa kidato cha kwanza hamjambo?”

“Hatujambo mwalimu!” Tulijibu kwa pamoja.

“Ni furaha yangu kuu kuwakakaribisha katika shule hii ya kitaifa ya Fanaka.

Madhumuni ya kuwataka mtangamane hapa, fauka ya kuwakaribisha rasmi, ni kuwajulisha na kuwafahamisha mambo kadha. Maisha yenu ya badaye ni kama jengo, na jengo likikosa msingi imara na madhubuti hutetereka na hatimaye kuanguka.

Lengo la kimsingi la shule ni kuwakuza wanafunzi ambao, zaidi ya kufuzu vizuri katika masomo yao, watakuwa *vielelezo* kwa taifa zima. Ninajua mna furaha kubwa baada ya kuhitimu mtihani wa darasa la nane. Ni kweli kuwa kila mtu ana haki ya kuufurahia ufanisi wake, lakini tujue pia kuwa tamu ikizidi tamu huwa si tamu tena. Ninachomaanisha ni kuwa *inatujuzu* kukumbuka kuwa, baada ya sherehe kuna kazi pia. Ili muweze kuwa na furaha kama hii tena baada ya matokeo ya mtihani wa kidato cha nne, lazima muwe na bidii kuanzia mwanzo. Elimu ni kama safari na ni muhimu kuwa tayari mapema. Waswahili husema kuwa msafiri ni aliye pwani.

Ni matumaini yangu kuwa haitawachukua muda mrefu kutulia na kuyazoea maisha yenu mapya. Kutulia huko ni muhimu ili kuwawezesha kukabiliana na majukumu mazito na adhimu yatakayowakabili. Ili kuwasaidia katika kutulia na kujizoeza vyema kwenye mazingira haya mapya, kila mmoja atapewa mwelekezi wa kumwongoza na kumshauri kuhusu kanuni za shule pamoja na kumjuza sehemu mbalimbali ambako shughuli Fulani maalum huendeshwa. Baadhi ya sehemu muhimu mnazotakiwa kuzijua ni *maabara*. Mathalani, maabara ya Kemia, Elimu-Viumbe na Fizikia. Aidha kuna chumba cha mafunzo ya tarakilishi. Kama mnavyojua, tunaishi katika karne ambapo maendeleo ya kisayansi ni nguzo kuu ya ufanisi wa maisha ya binadamu.

Ni muhimu kukumbuka siku zote kuwa shule yetu hii imejengwa kwenye misingi ya nidhamu kwa kutambua kuwa kijengacho mtu ni utu na tabia. Kila mwanafunzi anatarajiwa kuonyesha nidhamu ya hali ya juu kwa walimu, wafanyikazi wengine wa shule, *viranja* na kwa wanafunzi wenzako. Ni lazima kila mwanafunzi ahakikishe kuwa amezingatia adabu na *mbeko* katika matumizi ya lugha, kuzifuata kanuni zote za shule na kujiweka katika hali nadhifu.

Yamkini wengi mmeyazoea maisha ya nyumbani, laini hivi sasa mtalazimika kukaa mbali na ndugu, rafiki na *aila* zenu. Hali hii mpya haipaswi kuwa sababu ya kuwatosia katika biwi la simanzi. Badala ya kuhuzunika, mnapaswa kufurahia kuipata fursa na *abra* hii ya kujipatia marafiki wapya wa rika lenu. Aidha, hii ni nafasi nzuri ya kukumbana na hali nyingine ya maisha ambayo itawawezesha kuupanua ufahamu pamoja na uzoefu wenu wa kimaisha. Marafiki utakaokutana nao hapa wanatoka sehemu mbalimbali za nchi yetu na kwa kushirikiana nao na kufanya ushuba nao utajenga nguzo imara ya ushirikiano katika miaka ya usoni. Huu ni msingi muhimu wa ushirikiano katika kiwango cha taifa, na kiini cha utangamano mkubwa wa utaifa. Hata hivyo, sio

marafiki wote ambao ni wazuri kwa sababu hakuna mchele ukosao ndume. Lazima muwe na uangalifu katika kuwachagua marafiki zenu. Ukishirikiana na rafiki mbaya lazima atakuathiri. Nadhani sote tunajua kuwa mcheza na tope humruka.

Ikiwa utakumbana na matatizo yoyote usisite kumwuliza mwelekezi wako. Aidha, ni muhimu kuwauliza wanafunzi wengine ambao wana tajiriba ya mambo haya hapa shuleni au hata walimu wenu. Usilifutike jambo linalokusumbua au *kukukalifu* moyoni kwa sababu mwishowe litakuletea madhara makubwa. Ni muhimu kukumbuka niliyotangulia kusema kuwa, nia yetu siyo kuwaandaa wanafunzi wanaomudu masomo pekee, bali kuwakua watu waliokamilika kiakili na kiutu. Hali hii haiwezi kufikiwa ikiwa kila mmoja atajitenga kivyake. Sote tunaelewa umuhimu wa methali isemayo umoja ni nguvu, utengano ni udhaifu.

Ningependa kumalizia kwa kutoa mfano mfano huu. Mimi binafsi huiona shule kama kuku anayeatamia mayai. Akiyaatamia vizuri na katika mazingira mema, yale mayai yatatoatoa vifaranga wengi na wenye mayumaini. Vifaranga hawa nao wataindeleza jamii ya kesho. Lazima sote tushirikiane kuhakikisha kuwa hakuna *mayai viza* katika shule hii yetu.

Katika kipindi kijacho cha siku tatu, mtapata fursa ya kujulishwa sehemu mbalimbali za shule yetu na kuwajua walimu wenu. Ni matumaini yangu kuwa baada ya kipindi hicho, kila mmoja wenu atakuwa tayari kuyaanza masomo yake kwa msukumo mpya na bidi kubwa. Kwa miaka mine ijayo tutakutana mara nyingi na kuzungumza mengi. Kwa mara nyingine nawapongeza kwa matokeo bora katika mtihani wenu wa darasa la nane. La kuwakumbusha tu ni kuwa ukilima pantosha, utavuna pankwisha.

Sasa mnaweza kurejea madarasani mwenu kuwasubiri walimu ambao watawapa maelekezo na maagizo zaidi. Asanteni.'

MASWALI

a) Toa kichwa mwafaka kwa kifungu hiki

(alama 1)

.....

b) Ni kwa nini wanafunzi walikuwa wakiterema?

(alama 1)

.....

.....

c) Wanafunzi walijumuika katika ukumbi wa shule kwa sababu maalum. Zitaje

(alama 2)

.....

.....

.....

.....

d) Taja mawaidha yoyote mawili ambayo mwalimu mkuu aliwapa wanafunzi. **(alama 2)**

.....

.....

.....

e) Ni nini umuhimu wa nidhamu kwa maisha ya mtu? **(alama 2)**

.....

.....

.....

f) Tambua methali zozote mbili zilizotumika katika kifungu hiki **(alama 2)**

.....

.....

.....

g) Ni kwa njia gani shule huweza kulinganishwa na kuku aliyeotamia mayai? **(alama 2)**

.....

.....

.....

h) Eleza maana; **(alama 3)**

i) Viranja

.....

.....

ii) Tarakilishi

.....

.....

iii) Maabara

.....

.....

SEHEMU B: MATUMIZI YA LUGHA (ALAMA 40)

a) Taja na ueleze aina mbili kuu za sauti za Kiswahili (alama 2)

.....

.....

.....

b) Tambua na utoe mifano miwili ya aina mbili za ala za kutamkia (alama 2)

.....

.....

.....

c) i) Eleza tofauti kati ya sauti ghuna na sauti sikhuna. (alama 2)

.....

.....

.....

ii) Onyesha sauti ghuna au sikhuna kati ya hizi ulizopewa. (alama 2)

/k/:

/g/:

/s/:

/z/.....

d) i) Silabi ni nini? (alama 1)

.....

.....

ii) Taja aina mbili za silabi katika Kiswahili (alama 2)

.....

.....

.....

iii). Onyesha miundo yoyote miwili ya silabi za Kiswahili. **(alama 2)**

.....

.....

.....

e) Eleza maana; **(alama 2)**

(i)Kiimbo

.....

.....

(ii) Shadda

.....

.....

f) Tambua sifa tatu za sauti zifuatazo: **(alama 3)**

i) /a/

.....

.....

ii) /p/

.....

.....

g) Andika neno lenye muundo ufuatao wa silabi KKKI **(alama 1)**

.....

h) Taja na ueleze aina nane za maneno ya Kiswahili **(alama 4)**

.....

.....

.....

.....

.....

i) Tambua aina za maneno katika sentensi ifuatayo: (alama 3)

Mwervevu sana anapumzika chini ya mti jijini

.....

.....

.....

.....

j) Bainisha kundi nomino na kundi tenzi katika sentensi ifuatayo (alama 2)

Gari lile bovu liliondolewa barabarani

.....

.....

.....

k) Tunga sentensi kwa kutumia nomino za ngeli zifuatazo: (alama 3)

KI-VI.....

LI-YA.....

U-ZI.....

l) Kanusha katika wingi: (alama 2)

Mwalimu alinunua karatasi na kalamu

.....

m) i) Kirai ni nini? (alama 1)

.....

ii)Bainisha virai katika sentensi ifuatayo (alama 3)

Darasa letu lina wanafunzi watiifu sana

.....

.....

.....

.....

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(alama 2)

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(alama 1)

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(alama 10)

(alama 1)

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(alama 4)

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(alama 5)

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Sehemu ya D: Fasihi Simulizi (alama 15)

a) Fafanua maana ya Fasihi simulizi

(alama 2)

.....

.....

.....

b) Fasihi simulizi ina umuhimu gani katika jamii?

(alama 5)

.....

.....

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.....

.....

c) Bainisha tofauti kati ya fasihi simulizi na fasihi andishi

(alama 8)

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FORM 1 MID-TERM 2 EXAMS

SERIES 2

MATHEMATICS

TIME: 2 HOURS

NAME..... ADM NO;

CLASS..... DATE.....

Kenya Certificate of Secondary Education

INSTRUCTIONS TO CANDIDATES

1. Write your name and admission number in the spaces provided at the top of this page.
2. This paper consists of two sections: **Section I and Section II.**
3. Answer **all** questions in **section I** and **Section II.**
4. Show all the steps in your calculations, giving your answers at each stage in the spaces below each question.
5. Marks may be given for correct working even if the answer is wrong.
6. **KNEC** Mathematical tables may be used.

For Examiner's Use Only

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

17	18	19	20	21

**Grand
Total**

--

SECTION I (50 Marks)

1. Evaluate

(3 marks)

$$\frac{3 \times 3\frac{2}{5} - 2 \times 2\frac{1}{3}}{3\frac{2}{5} + 2 \times 2\frac{1}{3}}$$

2. Express the following number as a product of its prime factors and leave your answer in power form

(3 marks)

2601

3. Express the recurring decimal below to a fraction $0.\dot{3}$ and leaving your answer in the form $\frac{a}{b}$

where **a** and **b** are whole numbers

(3 marks)

4. A small scale poultry farmer packs eggs for sale in boxes of 6, 12 or 18 eggs. What is the smallest number of eggs that can be packed? **(3 marks)**

5. a) Write down the prime numbers between **20 and 30** in descending **order** **(1 mark)**

b) Round off the number formed in (a) above to the nearest **100** **(1 mark)**

c) Write down the number formed in (a) above in **words** **(1mark)**

6. Classes in a school start at 8:20 am and end at 4:20 pm. Tea and lunch breaks take a total of two hours. How long do the lessons take? **(2 marks)**

7. What is the total value of the underlined digit

a) 389,410,000,245 **(2 marks)**

b) 2657 **(1 mark)**

8. A shopkeeper sells a shirt for Sh. 450, and makes a 10% loss .For how much should he sell the shirt in order to make a 20% profit? **(3 marks)**

9. a) When is a number said to be divisible by **two** **(1 mark)**

b) Underline two numbers which are divisible by two **(2 marks)**
1002, 253,256,111125789

10. Round off the following numbers into the value in brackets.

i. 5 124 (100) **(1 mark)**

ii. 32 789 (1 000) **(1 mark)**

iii. 3 099 202 897 (10 000 000) **(1 mark)**

11. A cylinder has a volume of 550cm^3 .If the height of the cylinder is 70cm ,find its diameter.
(Take $\pi = \frac{22}{7}$) **(3 marks)**

- 12.** Find the greatest number which can divide 181 and 236 leaving a remainder of 5 in each case . **(3 marks)**

- 13.** Work out the following using a number line.

a) $(-7) + (-2) + (+6)$ **(2 marks)**

b) $(-9) - (+12)$ **(2 marks)**

- 14.** Use the prime factorisation method to find the square root of 2401 **(3 marks)**

15. The product of two number is $\frac{2}{7}$. *If one of them is $\frac{8}{21}$* , find the other number
(3 marks)

16. Evaluate

a)
$$\frac{-8 \div 2 + 12 \times 9 - 4 \times 6}{56 \div 7 \times 2}$$
 (3 marks)

b) $0.04 \times 10 \div 8 - 28 + 90$ (2 marks)

SECTION B (50 Marks)

17. a) Simplify the following expression $\frac{2x-5}{4} - \frac{1-x}{3}$ (3 marks)

b) Find the value of x in the equation $3x + 2(x + 1) = 4$ (2 marks)

c) A father is 3 *times* as old as his son .Write an expression for the sum of their ages five years ago if the son is x *years* old now (2 marks)

d) Find the value of $\frac{4x-\sqrt{y^2}}{2x}$ if $x = 4$ and $y = 6$ (3 marks)

18. a) Write the numbers below in words

(3 marks)

(i) 48,677,395

(ii) 2,499

(iii) 524,239

b) What is the place value of the underlined number?

(2 marks)

(i) 0.01258

(ii) 74,379,652,137

c) Otieno had 3469 bags of rice, each weighing 90kg. He sold 2654 of them.

(i) How many kilograms of rice was he left with?

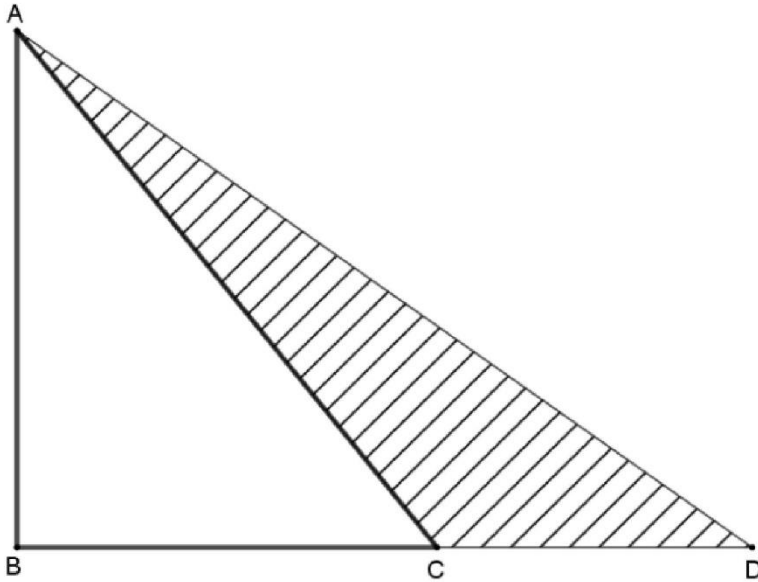
(2 marks)

(ii) If he added 468 more bags of rice, how many bags did he end up with ? **(1 mark)**

d) Work out $3(75 + 32) + 5(35 + 60)$

(2 marks)

19. The figure below shows a triangle, measurements in centimetres. Given that $AB = 10$ cm, $BC = 9$ cm and $CD = 8$ cm;



Determine;

- i. The area of triangle ABC. (2 marks)

- ii. The area of triangle ABD. (2 marks)

- iii. The area of the shaded region. (2 marks)

- iv. The perimeter of the triangle ACD. (4 marks)

20. a) Use tables of squares to evaluate

i) 4.92^2 (1mark)

ii) 0.0674^2 (2marks)

iii) 20.36^2 (2marks)

b) Use square root tables to evaluate

i) $\sqrt{69.78}$ (1mark)

ii) $\sqrt{0.005792}$ (2marks)

iii) $\sqrt{486.4}$ (2 marks)

21. a) A tailor used 2.15 m of material to make a dress, 1.8m to make a skirt and 0.75m to make a blouse .How much cloth did he use? **(2 marks)**

b) The total mass of two pigs and 12 goats is 241.64 kg . The mass of the two pigs is 145.36kg .Find the average mass of each goat to nearest 1kgs . **(3 marks)**

c) Evaluate $0.02 + 3.5 \times 2.6 - 0.1(6.2 - 3.4)$ **(2 marks)**

d) Work out $1.532 \div 4$ **(1 mark)**

e) Multiply each by the number in bracket

a) 0.090256 **(10,000)** **(1 mark)**

b) 5.16 **(100)** **(1 mark)**

THE END

For Marking Schemes, Contact Mr Isaboke

0746-222-000/0742-999-000

Mwalimu Consultancy Ltd

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