EXCELLING STUDENTS FORM 1 MID TERM 2 SERIES 1 EXAMS *(ALL SUBJECTS TESTED)*



EXCELLING STUDENTS FORM ONE MID TERM TWO SERIES ONE EXAMS

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

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

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EXCELLING STUDENTS FORM 1 MID TERM 2 SERIES 1 EXAMS

NAME: ……..

SCHOOL: ……..

DATE:…….. ADM NO: …… SIGNATURE:……

AGRICULTURE FORM ONE
TERM 2
DURATION-2HRS

Instructions

- Write your name, class and admission number in the space provided above.
- Write the date of the examination and sign in the space provided above.
- Answer ***all*** the questions in the spaces provided.
- You may be *penalized* for wrong spelling especially technical terms.

Instructions: Answer all questions in the spaces provided

1. Give the meaning of the following words as used in agriculture (6mks)

a) Agriculture

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b) Apiculture

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2. Giving examples, explain why agriculture is both an art and science **(6mks)**

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3. Why is agriculture very important to the economic development of Kenya **(5mks)**

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4. Name and explain **four** methods of farming **(8mks)**

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5. Give the difference between the following

a) Olericulture and pomology **(2mks)**

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b) Intensive farming and extensive farming **(2mks)**

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c) Pastoralism and aquaculture **(2mks)**

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d) Plantation farming and ranching **(2mks)**

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e) Small scale farming and large scale farming **(2mks)**

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6. What are the advantages of shifting cultivation? **(3mks)**

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7. a) What is soil profile? **(2mks)**

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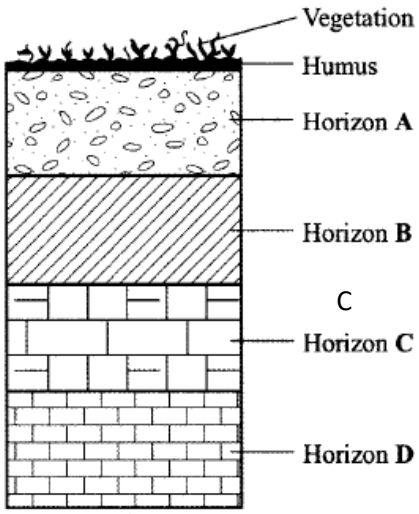
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b) Below is a diagram of soil profile, label the parts A to D **(4mks)**



8. Name **four** aspects of rainfall that influence agriculture **(4mks)**

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9. a) Name **four** factors that influence soil formation **(4mks)**

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b) Name the **three** agents of weathering **(3mks)**

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10. Name **four** biotic factors that influence agriculture **(4mks)**

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11. State **four** effects of HIV/ AIDS on agriculture **(4mks)**

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12. a) Give the meaning following terms as used in Agriculture **(4mks)**

A	B
1)Domestication	
2)Crop pathology	
3)Crop farming	
4)Agricultural engineering	

b) Name **five** constituents of soil **(4mks)**

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13. State **three** roles of soil organic matter **(3mks)**

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14. State **four** ways by which wind affects the growth of crops. **(5mks)**

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15. State **four** roles of good soil aeration in crop growth. **(4mks)**

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16. Outline **four** effects of soil organisms which benefit crop growth. **(4mks)**

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17. Explain **five** ways on how government policy improves agricultural production **(5mks)**

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18. State **four** disadvantages of pastoral nomadism system of farming. **(4mks)**

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EXCELLING STUDENTS FORM 1 MID TERM 2 SERIES 1 EXAMS

NAME: ……..

SCHOOL: ……..

DATE:…….. ADM NO: …… SIGNATURE:……

BIOLOGY

FORM ONE

HOURS

INSTRUCTIONS TO CANDIDATES

(a) Write your name, ADMNO and school in the spaces provided above

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

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

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

(e) Candidates should answer the questions in English

FOR EXAMINER'S USE ONLY

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

17	18	19	20	21	22	23	24	GRAND TOTAL

1. a) What is biology **(1mk)**

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b) State four scientific skills imparted to biologists by studying biology **(4mks)**

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2. a) What biological knowledge is required in dealing with ticks that infest a cow **(1mk)**

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b) State three main branches of biology **(3mks)**

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3. List **three** differences between a plant and an animal. **(3mks)**

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4. Mention the name given to the study of each of the following: **(3mks)**

a) The cell……..

b) Microorganisms……..

c) Insects ……..

5. State the importance of each of the following in living organisms **(2mks)**

a) Excretion

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b) Reproduction

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6. What characteristics of organisms is described below

a) A cat giving birth to kittens and eating them. **(2mks)**

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b) A snake hissing at the sight of a cat. **(1mk)**

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c) A boy running to class at the sound of a bell. **(2mks)**

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7. The figure below shows one of the characteristics of living things. Identify the characteristic shown. **(1mk)**



8. Give four reasons why Biology is studied in schools. **(3mks)**

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9. a) What is magnification **(1mk)**

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b) A student observed a leg of an insect under a hand lens and made a drawing of the leg whose length was 4cm with a magnification of X2. What was the actual length of the leg? **(2mks)**

10. a) State two precautions to observe when collecting millipedes, centipedes and spiders. **(2mks)**

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b) Name the apparatus used when collecting mosquitos for study**.** **(1mk)**

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11. a) i) Which microscope has a higher resolving power? **(1mk)**

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ii) Give a reason for your answer in 11 (a) (i) above. **(1mk)**

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12. The diameter of the field of view of a light microscope is 5.5mm. Plant cells lying across the diameter are 20. Determine the size of one cell in micrometers. (Show your working.) **(2mks)**

13. a) Name the organelles that perform each of the following functions in a cell**.** **(2mks)**

i) Synthesis of proteins

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ii) Transport of cell secretions

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14. a) What is the Binomial nomenclature**?** **(2mks)**

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b) The scientific names of three animals leopard, wolf and lion in the family carnivore are; *Panthera pardus, Canis lupus* and *Panthera leo* respectively.

i) Why are scientific names given in Latin? **(1mk)**

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ii) What does *Canis* refer to? **(1mk)**

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iii) Giving a reason, state the organisms that are most closely related. **(1mk)**

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15. a) Give reasons for carrying out the following during preparation of temporary slides. **(3mks)**

i) Cutting thin sections

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ii) Staining

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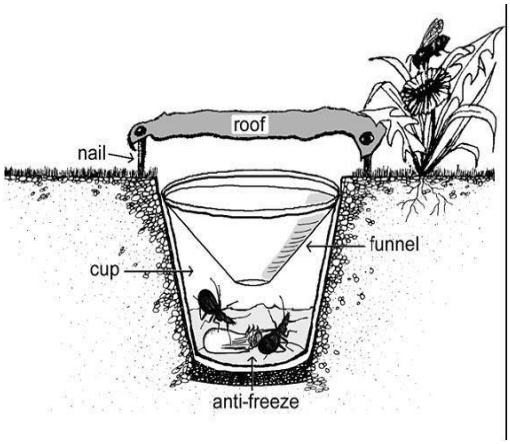
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iii) Adding a drop of water

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16. Below are some of the common apparatus used to collect the specimen. Use it to answer the questions that follow.



a) i) Name the apparatus**.** **(1mk)**

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ii) Give two functions of the roof in the apparatus. **(2mks)**

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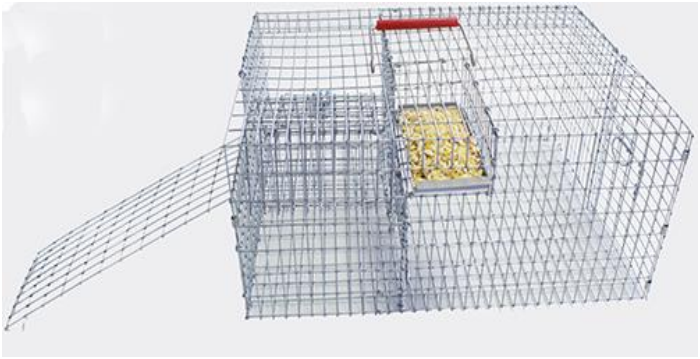
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b)



i) Name the apparatus shown in (b) above **(1mk)**

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ii) Give the role of the apparatus named in (b) (i) above**.** **(1mk)**

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17. Give the procedure of focusing an object using low power objective lens of a light microscope. **(3mks)**

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18. a) Define taxonomy. **(1mk)**

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b) Name the second taxonomic unit of classification in plants. **(1mk)**

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c) Name any three kingdoms of classification. **(3mks)**

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19. a) What is the function of centriole in a cell**?** **(1mk)**

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b) Name the cell organelle that would be abundant in a skeletal muscle. **(1mk)**

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20. A biology student used a microscope with X40 objective lens and X5 eye piece lens to magnify an object. Calculate the magnification of the object. **(2mks)**

21. The outbreak of COVID 19 posed a great threat and untold suffering among human population across the world. State how the importance of biology came out clearly in the following areas as a result of the outbreak of corona virus;

i) International cooperation **(1mk)**

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ii) Career choice **(1mk)**

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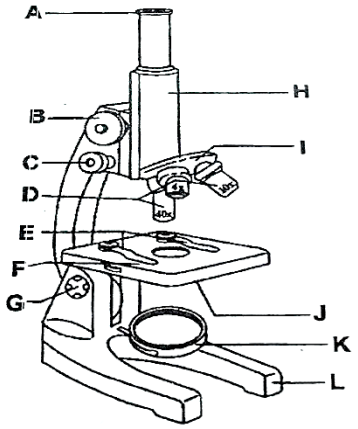
iii) Solving environmental problems **(1mk)**

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22. The diagram below represents a common laboratory equipment.



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

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

E: ……

G: ……

c. Identify the letters that represent the parts used in;

i) Changing the parts labeled D from one to the other**.** **(1mk)**

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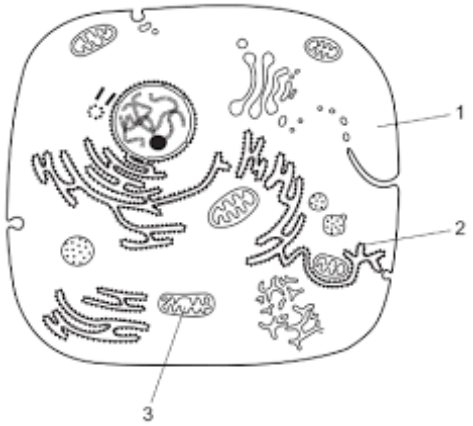
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ii) Inclining the equipment to an appropriate position. **(1mk)**

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23. The diagram below shows a certain cell. Use it to answer the questions that follow.



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

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b) Give two reason for your answer in (a) above. **(2mks)**

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c) Name the structures labeled 1, 2 **(2mks)**

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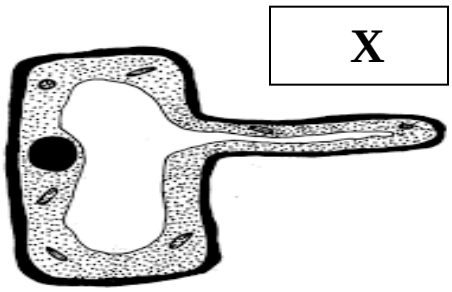
d) State the function of the part labeled 3 **(1mk)**

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24. The diagrams below represents some of the specialized cells in living things.





a) Identify the cells labelled X and Y. **(2mks)**

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b) Identify the modification in their structure that is common to both of them**.** **(1mk)**

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EXCELLING STUDENTS FORM 1 MID TERM 2 SERIES 1 EXAMS

NAME: ……..

SCHOOL: ……..

DATE:…….. ADM NO: …… SIGNATURE:……

BUSINESS STUDIES

FORM ONE TERM 2

Answer all questions in this paper.

1. Fill in the table with the correct term as used in business studies. **(5mks)**

	Definition	**Term**
a)	Study of all activities that are carried out in an office	
b)	Study of how people struggle to meet their endless needs using limited resources	
c)	Study of systematic ways of recording and reporting business information for decision making	
d)	Study of the process of identifying a business opportunity and acquiring the necessary resources to start and run it.	
e)	Study of trade and aids to trade	

2. Highlight four ways in which the study of business studies is important to the community you live in.

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3. By using a tick (√), show in the table below whether the activity listed are business activities or non-business activities. **(4mks)**

No.	Activity	Business	Non business
a)	Selling tomatoes by the roadside		
b)	Making chapatis for own breakfast		
c)	Growing onions behind the kitchen for home use		
d)	Teaching students in a classroom		

4. Outline four ways in which a business can perform its social responsibilities. **(4Mks)**

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5. Classify the following factors into either internal or external business environment. **(5Mks)**

Factor	Classification
a) Customers	
b) Objectives	
c) Suppliers	
d) Management	
e) Competitors	

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6. The following are description of features of human wants. Identify the features that relate to the descriptions in the spaces provided. **(4Mks)**

No	Description	Feature
(a)	Wants are too many to all be satisfied	
(b)	Once satisfied, they have a tendency of being felt again.	
(c)	Some wants are satisfied together.	
(d)	The same want can be satisfied using different resources.	

7. List down ten items a student may require at the beginning of term two in order of priority. **(5Mks)**

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8. Outline four differences between a good and a service. **(4Mks)**

	A GOOD	A SERVICE
a)		
b)		
c)		
d)		

9. The following are occupations under direct services and commercial services:

Teaching, transport, healthcare, security, hairdressing, communication, entertainment, warehousing, banking, insurance

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Classify the occupations appropriately. **(5Mks)**

Direct Services	Commercial services

10. Name the factor of production to which each of the following resources relate: **(4Mks)**

	Resource	Factor of production
a)	Firm manager	
b)	Farm tractor	
c)	Water	
d)	Cotton	
e)	The owner	
f)	Buildings	
g)	Office secretary	
h)	The climate	

11. In the spaces provided below, indicate the type of utility created by each of the following commercial activities: **(4Mks)**

Commercial activity	Type of utility
Selling goods to customers:	
Transporting goods:	
Store keeping:	
Making a chair:	

12. Identify five features of economic resources: **(5Mks)**

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13. Highlight five benefits of division of labor to an organization. **(5Mks)**

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14. State the reward for each of the following factors of production: **(4Mks)**

Factor of production	Reward
Land	
labor	
Capital	
Entrepreneur	

15. State four factors which may limit exploitation of natural resources in a country. **(4Mks)**

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16. State four reasons why human wants are not easily satisfied. **(4Mks)**

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EXCELLING STUDENTS FORM 1 MID TERM 2 SERIES 1 EXAMS

NAME: ……..

SCHOOL: ……..

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CHEMISTRY

FORM ONE

TERM 2

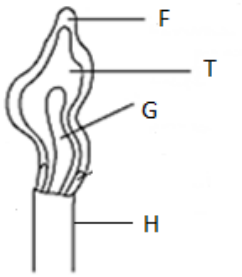
TIME: 2 HOURS

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

INSTRUCTIONS TO CANDIDATES:

(i) Write your name and Admission number in the spaces provided above.
(ii) Answer ALL the questions in the spaces provided.
(iii) Mathematical tables and silent electronic calculators may be used.
(iv) All working must be clearly shown where necessary.
(v) Students should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing

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

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(b) benzoic acid and sodium chloride

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(c) Iron filings and Sulphur

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3. Draw and state one use of the following apparatus. **(4mks)**

(a) Deflagrating spoon

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(b) Mortar and pestle

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

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5. (a) Define the following terms **(3mks)**

(i) Drug

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(ii) Drug abuse

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iii) Chemistry

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

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

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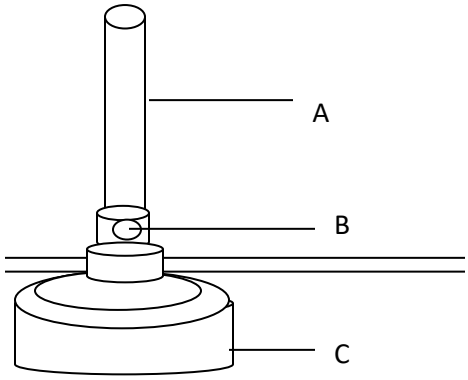
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7. The diagram below shows parts of a Bunsen burner.



a) Name the parts labelled A , B , C **(3mks)**

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b) Give one use of the part labelled A,B,C **(3mks)**

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8. Explain why most laboratory apparatus are made of glass **(2mks)**

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9. (a) Define the term conductor as used in chemistry and give two examples of conductors **(3mks)**

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b) Name two apparatus that are used to measure accurate volume of liquids in the laboratory **(2mks)**

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c) State THREE frequently abused drugs by the Kenyan youth **(3mks)**

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10. (a) A patient was given tablets with prescription 2 x 3 on the envelope. Clearly outline how the patient should take the tablets. **(2mks)**

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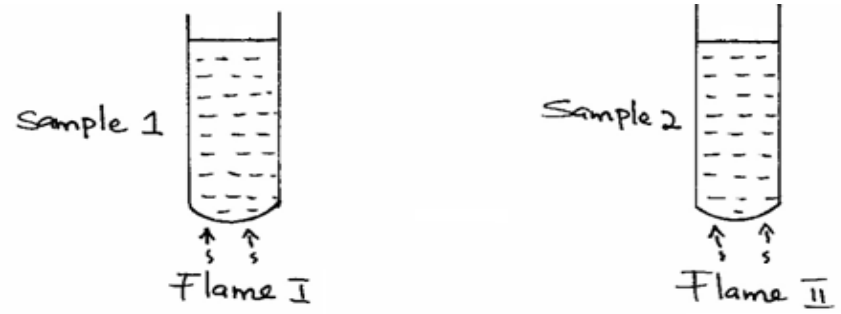
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(b) Two samples of equal volumes of water were put in 250cm³ beaker and heated for 10 minutes. Sample 1 registered a higher temperature than sample 2.



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i) State the condition under which flame II is produced in Bunsen burner. **(1mk)**

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ii) Name the flame used to heat beaker I. Explain your answer **(2mks)**

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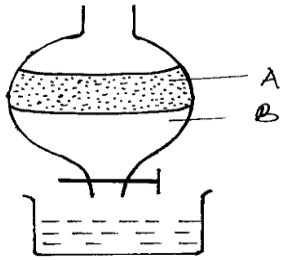
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11. The apparatus below was used to separate a mixture of water and kerosene.



a) State two properties of the liquids that make it possible to separate them using such apparatus. **(2mks)**

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b) Name the liquids A and B **(2mks)**

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c) Give the name of the above method of separation **(1mk)**

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12. Describe the procedure used in separating a mixture of sand, aluminium chloride, iron filings and sodium chloride in the laboratory **(5mks)**

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13. State two laboratory rules to observe when preparing a **poisonous** gas. **(2mks)**

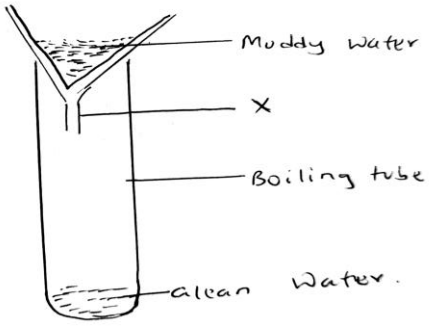
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14. The diagram below shows how muddy water can be made clean. Study it and answer the questions that follow.



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

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b) Identify the method of separation above **(1mk)**

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

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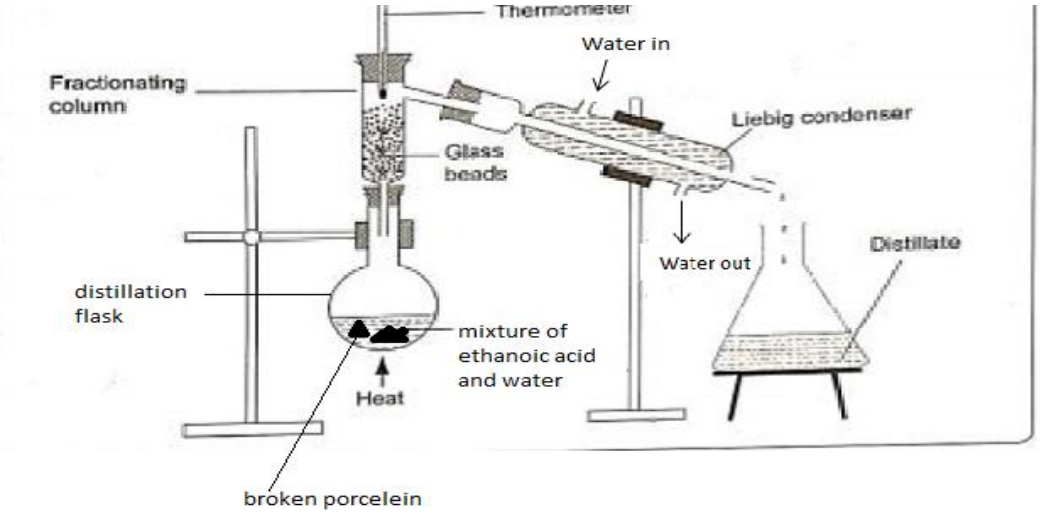
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(d) Give one industrial application of the above method **(1mk)**

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15.) 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 = $100^{O}C$, ethanoic acid = $118^{O}C$)



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; **(4mks)**

i. Thermometer

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ii. Liebig condenser

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iii. Fractionating column

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iv. Glass beads

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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. **(2mks)**

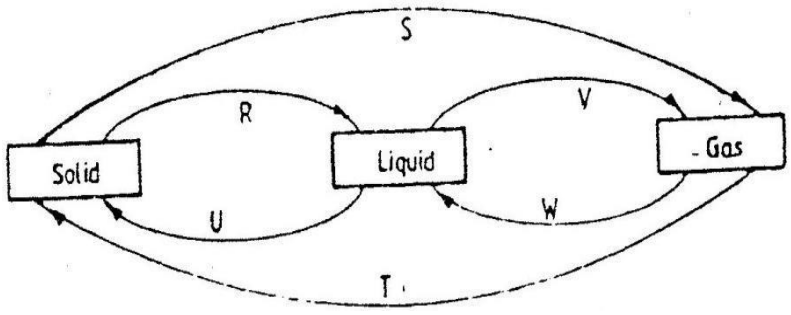
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16. The diagram below shows the relationship between the physical state of matter. Study it and answer the questions that follow;



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a) Identify the processes R, V, W and U **(4mks)**

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b) Name two substances that can undergo the process represented by process S and T **(2mks)**

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EXCELLING STUDENTS FORM 1 MID TERM 2 SERIES 1 EXAMS

NAME: ……..

SCHOOL: ……..

DATE:…….. ADM NO: …… SIGNATURE:……

FORM ONE EXAMINATION

CODE451/1 SUBJECT: COMPUTER STUDIES

TIME 2Hours

INSTRUCTION TO CANDIDATE

- Write your name and Admission number in the spaces provided above
- Answer **ALL** questions
- All answers should be written in the spaces provided on the question paper

FOR EXAMINER'S USE ONLY

QUSTIONS	CANDIDATE'S SCORE
1 -20	
TOTAL SCORE	

Answer all the questions

1. Define the following Terms as used in Computer studies

(i) Data **(2mks)**

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(ii) Information **(2mks)**

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(iii) ICT **(2mks)**

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2. Mention five examples of peripheral devices **(5mks)**

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3. List five components/ devices housed within the computer system unit **(5mks)**

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4. With an aid of a diagram state the difference between analog and digital data **(4mks)**

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5. Give five challenges experienced by users of first generation computer **(5marks)**

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6.

(i) State five characteristics of fifth generation computers **(5mks)**

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(ii) Mention three hardware technology difference between first generation and third generation computers **(3mks)**

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7. Mention four ways of controlling dust levels in a computer lab **(4mks)**

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8.

(i) Give four types of Keyboards **(4mks)**

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(ii) State the functions of the following mouse skills

(a) Double click **(2mks)**

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(b) Right click **(2mks)**

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(c) Drag and Drop **(2mks)**

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9. State five ways of enforcing security in computer laboratories established in learning institutions **(5mks)**

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10. Mention three functions of Uninterruptible Power Supply **(3mks)**

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11. Use abacus to represent the following numbers

(i)2370 **(2mks)**

(ii) 0967 **(2mks)**

12.

(i) Name three electronic pathway used by computer components mounted on motherboard to exchange signals **(3mks)**

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(ii) State three characteristics of Dynamic Random Access Memory **(3mks)**

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13. List three examples of toggle keys found on a standard keyboard **(3mks)**

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14. Identify the function of each key represented by the symbols shown below

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(i) **(2mks)**



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(ii) **(2mks)**



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15. Mention five disadvantages of using computers in organizations **(5mks)**

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16.

(i) Why is Charles Babbage considered as the father of computers **(2mks)**

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(ii) Name three non-electronic devices used to perform arithmetic manipulations before electronic computer were invented **(3mks)**

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17. State five ways of using computers in learning institutions like schools **(5mks)**

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18. List five input devices that capture directly from source **(5mks)**

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19. Name three Arithmetic and Logical operations undertaken by the ALU **(6mks)**

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20. State two ways in which dampness affects computers that are installed in the Laboratory **(2mks)**

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EXCELLING STUDENTS FORM 1 MID TERM 2 SERIES 1 EXAMS

NAME: ……..

SCHOOL: ……..

DATE:…….. ADM NO: …… SIGNATURE:……

CRE

FORM ONE

MID-TERM 2

TIME: 2 HOURS

Instructions: Answer All Questions.

1. Explain seven reasons for studying CRE **(7mks)**
2. Why is the bible referred to as a library **(7mks)**
3. Identify seven literary forms used in writing the bible **(7mks)**
4. Give the eight divisions of the books of the bible **(8mks)**
5. Identify occasions when bible is used in Kenya. **(5mks)**
6. Identify the Pauline letters in the New Testaments **(7mks)**
7. Mention seven versions of the bible used in Kenya today **(7mks)**
8. Outline seven differences between the first and second creation accounts. **(7mks)**
9. With reference to the Genesis stories of creation outline the attributes of God. **(8mks)**
10. Identify the responsibilities given to human beings by God in the Biblical creation accounts. **(8mks)**
11. Identify the consequences of sin from the story of the fall of man in Genesis 3. **(7mks)**
12. What are the causes of evil in Traditional African Communities. **(8mks)**
13. Outline seven similarities between the Traditional African view of evil and the Biblical concept of sin. **(7mks)**
14. Describe the call of Abraham**.** **(8mks)**
15. Identify how Abraham showed faith in God. **(7mks)**

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EXCELLING STUDENTS FORM 1 MID TERM 2 SERIES 1 EXAMS

NAME: ……..

SCHOOL: ……..

DATE:…….. ADM NO: …… SIGNATURE:……

MID TERM 2

ENGLISH

FORM ONE (1)

TIME: 2 HOURS 30 MINUTES

Instructions To Candidates:

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

b) Indicate your class and write the date of exam in the spaces provided.

c) Answer all the questions in this paper.

d) All your answers must be written in the spaces provided.

For Examiner's Use Only:

S/No.	Question	Maximum Score	Candidate's Score
1	Comprehension	20	
2	Oral Skills	20	
3	Writing	20	
4	Grammar	20	
	TOTAL	80	

1. COMPREHENSION

Read the passage below and answer the questions that follows. (20 Marks)

Why We Cannot Do Without Prefects

Prefects play a pivotal role in school leadership. As student leaders, their role has evolved with the ever-changing school systems the world over. Incidentally, the more the education set-up changes, the more the duties of this cadre remain the same. Our discussion explores the role of prefects as leaders in a school set-up.

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The concept of prefects is historical. It goes back to ancient Roman administrative systems where leaders were powerful, military, judicial and executive people. The word 'prefect' suggests 'one who does things first'. You could, therefore, say that a prefect is a prime mover. In education, the systems of having prefects grew out of 14th century experiments in British centers of academic instruction.

Prefects have considerable **authority** over other students. This is in line with the British and Commonwealth traditions. Prefects, in essence, assist the teachers in running schools. Basically, they deal with discipline and student control in and out of the classroom. The prefect leadership system is **hierarchical** with the head prefect, variably referred to as the school president. In this structure, a class prefect, for example, can refer particularly difficult students to the head prefect. A few years ago, prefects would actually administer corporal punishment. This has now been abolished in most countries, as modern opinion disapproves of enforcing discipline through cruel and degrading treatment.

In Kenya, prefects' bodies link the school administration and student. The democratically elected prefect body is a bridge between the school administration and students. The prefects inform the teachers about the aspirations and desires of students. This has become an essential **recipe** for the clam prevailing in most schools these days. Prefects also implement the wishes of teachers and the school administration. Furthermore, it has been mooted that these students' leaders may as well sit on school boards and other important organs in the school systems. In India, Malaysia, Singapore, Pakistan and Sri Lanka, prefects enjoy **sweeping** powers, including subtly having a say in the executive running of the institutions.

Prefects are usually students of high and admirable moral demeanor. They are role models for the other students.

They are expected to inspire stubborn and wayward students to change and they have positive influence on their colleagues. History has proved that schools' leaders who perform well and are of good character are highly admired and respected. They eventually carry this trait into their adult lives, hence becoming leaders in the fields of their choice. any respected leader today will probably point out that their background in school leadership was a major contributing factor.

Finally, prefects, particularly in Kenya, can now boast about having a direct input in the formation of education polices. The umbrella association for secondary school head teachers in the country has organized forums for student leaders with the aim of enhancing the participation of students in the management of school affairs. This usually culminates in a national students' council in which students'

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leaders articulate issues of education importance. This promotes unity among the schools. The first ever national students' council was launched at the Bomas of Kenya on 4th April 2009. It was attended by over two thousand democratically elected student leaders from secondary schools all over the country.

Although the responsibilities of prefects vary from school to school, their role has a huge bearing on the stability of their institution. They are, indeed, prime movers in most of the activities in schools. it certainly would not be a bad idea to have their role strengthened further.

Questions

a. According to the passage who is a prefect? **(2Mks)**

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b. What led to the systems of having prefects in education? **(2Mks)**

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c. How do prefects act as a link between the school administrators and the students? **(2Mks)**

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d. Give examples of countries stated in the passage where prefects are very powerful**.** **(2Mks)**

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e. How many elected student leaders attended 2009 national student's council? **(2Mks)**

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f. How do prefects in Kenya contribute to the formulation of education policies? **(2Mks)**

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g. State the functions of prefects in school leadership as highlighted in the passage? **(4Mks)**

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h. Give the meaning of the following words as they have been used in the passage? **(4Mks)**

i. Recipe

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ii. Authority

……

……

iii. Sweeping

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……

iv. Hierarchical

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……

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2. ORAL SKILLS

a. Fill in the gaps in each of the following sentences with the most suitable word from those given in brackets. **(3Mks)**

i. The lorry …….down Limuru road. (lolled, rolled)

ii. We sing songs to ……..God. (praise, please)

iii. The lorry was quite…… . (wrong, long)

b. Imagine you are preparing to make a presentation in class during the English lesson. How will you use your voice effectively in order to make a powerful presentation. **(2Mks)**

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……

c. Give other words that have same pronunciation but are spelt differently as the ones provided below. **(5Mks)**

i. Ore**……**

ii. One**……..**

iii. Hole**…….**

iv. Queue**……**

v. Flower**……**

d. During a class reader reading session, your teacher of English notes that some students have poor reading habits, what makes him/her to come to that conclusion**?** **(5Mks)**

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e. Read the following short form item and answer the questions that follows.

"The shortest soldier shot the second shortest soldier's shoulder."

i. Identify the short form item above? **(1Mk)**

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ii. Identify one feature of the item? **(2Mks)**

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iii. Give two functions of the item above? **(2Mks)**

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3. WRITING

a. Rewrite the following paragraph in good handwriting correcting the misspelt words. (10 Marks)

I feel confindent that I will find my mother at home. The messanger she had sent to me arrived in good time and brought me the good news. He is a responsible person. My mother works with good people. She has no enermies. I love her very much. She works quiet hard and let's me do my homework. There is ussually alot of schoolwork to be done at home. My mother has made our home a convinient working place.

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b. Use commas where necessary in each of the following sentences. **(5Mks)**

i. Well I hope you learnt a lesson from this.

……

ii. Kayleigh show the visitor the principal's office.

……

iii. After the mother left the child began to cry.

……

iv. The long rains failed . Consequently there was crop failure.

……

v. 'Jesus is the son of God' said the pastor.

……

c. Use the appropriate final or end punctuation marks in the following sentences. **(5Mks)**

i. What a wonderful animal a Kangaroo is

……

ii. Sunday is the first day of the week

……

iii. Which is the tallest mountain in the world

……

iv. Did Adam have milk teeth

……

v. Is it true to say that boys are superior to girls

……

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4. GRAMMAR

a. Use the list provided in the box below to group the nouns into common and proper nouns. **(4Mks)**

Man	College
Basweti	Afraha Stadium
Country	President
Kenya	Barrack Obama

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……

b. State whether the following nouns are concrete or abstract. **(4Mks)**

Kindness	Smell	Goat	Health
Table	Seat	Love	Mat

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c. Fill in the blanks with the plural form of the word in brackets. **(4Mks)**

i. All of Kenyatta's …….died because of the very cold weather. (sheep)

ii. The police produced three …….as exhibits. (knife)

iii. Why do you live in a house that attracts ……? (mouse)

iv. Semba consulted many …… before responding to the commissioner. (chief)

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d. Use ‘a’, ‘an’ and ‘the’ to fill in the blanks in the following sentences. **(4Mks)**

i.I am just going to **……**post office. I won’t be long.

ii.How often do you go to **……..**dentist?

iii.She is **……**useful person most of **……**time.

e. Fill in the gaps in each of the following sentences with the appropriate reflexive pronouns. **(2Mks)**

i.Nancy blamed **……** for the accident.

ii.When I went to college, I supported **……** by working in the institution cafeteria.

f. Underline the possessive pronouns in the following sentences. **(2Mks)**

i.This colourful shirt is yours.

ii.All I know is that theirs is just a joke.

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EXCELLING STUDENTS FORM 1 MID TERM 2 SERIES 1 EXAMS

NAME: ……..

SCHOOL: ……..

DATE:…….. ADM NO: …… SIGNATURE:……

FORM 1 MID TERM 2

GEOGRAPHY

TIME: 2 Hours

Answer all Questions

1. **(a)** Define the term geography? **(2mks)**

(b) Name three topics under physical geography. **(3mks)**

(c) Name three branches/divisions of physical geography. **(3mks)**

(d) Give three areas of study under practical geography. **(3mks)**

2. **(a)** State four reasons for studying geography. **(4mks)**

(b) Describe how geography is related to:

(i) Mathematics **(2mks)**

(ii) Chemistry **(2mks)**

(iii) Biology **(2mks)**

3. **(a)** What is solar system? **(2mks)**

(b) Name any three components of the solar system. **(3mks)**

(c) **(i)** What is a natural satellite? **(2mks)**

(ii) Name any three natural satellites. **(2mks)**

(iii) State one reason why stars are not part of the solar system. **(1mk)**

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(d) (i) Name three examples of the inner planets. **(3mks)**

(ii) State three characteristics of the sun. **(3mks)**

(iii) What is rotation of the earth? **(2mks)**

(iv) State four effects of rotation of the earth. **(4mks)**

(e) Name three processes the atmosphere is heated. **(3mks)**

(f) What is terrestrial radiation? **(2mks)**

4. (a)(i) Besides the crust name two internal parts of the earth's structure. **(2mks)**

(ii) Describe three characteristics of the crust. **(3mks)**

(b) Name any two transition zones in the interior of the earth. **(2mks)**

(c) State any three reasons why the interior of the earth is hot. **(3mks)**

(d) Give any two evidence to show that the interior of the earth is hot. **(2mks)**

5. (a) Define the term weather. **(2mks)**

(b) Name any three elements of weather. **(3mks)**

(c) Besides relief rainfall, name two other types of rainfall. **(2mks)**

(d) Describe how relief rainfall is formed. **(4mks)**

(e)(i) What is temperature? **(1mk)**

(ii) Name three factors that influence temperature of a place. **(3mks)**

(iii) State three factors that influence amount of solar radiation reaching the earth's surface. **(3mks)**

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6. (a) Describe the Passing Star Theory. **(4mks)**

(b) State three weaknesses of the passing Star Theory. **(3mks)**

(c) State any four proofs that the earth is spherical. **(4mks)**

(d) (i) What is equinox? **(2mks)**

(ii) Give two dates of the year when equinox is experienced. **(2mks)**

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

(ii) Name any two instruments kept in a Stevenson Screen. **(2mks)**

(iii) Describe any three features/Characteristics of a Stevenson Screen. **(3mks)**

(b) Name three main layers of the atmosphere. **(3mks)**

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EXCELLING STUDENTS FORM 1 MID TERM 2 SERIES 1 EXAMS

NAME: ……..

SCHOOL: ……..

DATE:…….. ADM NO: …… SIGNATURE:……

HISTORY AND GOVERNMENT (311)

MID OF TERM 2 EXAM

FORM ONE (1)

Time: $2\frac{1}{2}$ ***Hours***

Instructions to Candidates

a. *This paper consists of* ***TWO*** *sections* ***A AND B***

b. *Answer* ***ALL*** *QUESTIONS.*

c. *Answers to all the questions must be written legibly in the answer booklet provided.*

Candidates should answer the questions in English

SECTION A (40 MARKS)

ANSWER ALL THE QUESTIONS.

1. Define the term Pre-history **(1mk)**

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2. Apart from Political history, name two other branches of history **(2mks)**

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3. State two characteristics of a historical event **(2mks)**

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4. Identify two forms of government that exists in the world **(2mks)**

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5. Give three career choices that are influenced through the study of History and Government **(3mks)**

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6. State three forms of oral traditions **(3mks)**

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7. What is an archaeological site **(2mks)**

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8. State two disadvantages of relying on linguistics as a source of history and government **(2mks)**

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9. Identify two chemical methods that are used by archaeologists in dating fossils and artifacts **(2mks)**

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10. Give one example of an audio-visual source of history and government **(1mk)**

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11. State the two theories that explains the origin of agriculture **(2mks)**

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12. Identify two irrigation methods that were used in Egypt **(2mks)**

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13. Give a reason why *Homo habilis* was also called man with ability **(1mk)**

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14. a.) State five methods that are used by archaeologists to locate archeological sites **(5mks)**

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b.) Explain five benefits of the discovery of fire by the early man **(10mks)**

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SECTION B (60 MARKS)

ANSWER ALL THE QUESTIONS

15. a.) State three disadvantages of written sources of history and government **(3mks)**

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b.) Explain the importance of studying government **(12mks)**

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16. a.) Give three theories which explains the origin of human **(3mks)**

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b.) Explain six reasons why Africa is regarded as the original homeland for mankind **(12mks)**

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17. a.) Identify three prehistoric sites that are found in Kenya **(3mks)**

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b.) Describe the life of early human beings during the Old Stone Age period **(12mks)**

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18. a.) State three reasons why hunting of wild animals was mainly a group activity during the stone age period **(3mks)**

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b.) Explain six reasons why early people domesticated crops and animals during the Neolithic period **(12mks)**

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**********END**********

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EXCELLING STUDENTS FORM 1 MID TERM 2 SERIES 1 EXAMS

NAME: ……..

SCHOOL: ……..

DATE:…….. ADM NO: …… SIGNATURE:……

HOME SCIENCE

(Theory)

FORM ONE MID-TERM 2

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 11 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	1-17	40	
B	18	20	
		20	
		20	
Total Score		100	

SECTION A(40 marks)

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

1. List down **three** modern housing designs common in Kenya today. **(1½mks)**

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2. What measures would you take to prevent athlete's feet? **(2mks)**

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3. Give **two** advantages and disadvantages of using grass for thatching roofs. **(4mks)**

a. Advantages

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b. Disadvantages

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4. Give **three** things that good posture helps to eliminate**.** **(1½mks)**

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5. State **two** causes of tooth decay in small children. **(2mks)**

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6. Highlight **three** qualities a well groomed individual should possess**.** **(3mks)**

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7. Distinguish a burn from a scald**.** **(2mks)**

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8. State **three** disadvantages of maisonettes in Kenya**.** **(3mks)**

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9. In the management of burns, the following four items found in the First Aid box are used. **(2mks)**

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10. Suggest **three** good grooming habits that can help one prevent skin diseases. **(3mks)**

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11. Why would you boil a white cotton handkerchief used by someone suffering from common cold? **(2mks)**

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12. Give **four** ways of preventing dandruff on the scalp**.** **(2mks)**

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13. Highlight **two** factors which promote efficiency when cleaning different area in the house**.** **(2mks)**

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14. Mention **two** actions to avoid when managing a fractured limb**.** **(2mks)**

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15. Give **two** reasons why people prefer to rent houses. **(2mks)**

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16. State the uses of the following types of mops**.** **(2mks)**

a) Floor polishing mops

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b) Furniture mops

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c) Wet mops

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d) Floor dusting mops

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17. State **two** reasons for sprinkling water into which a disinfectant is added onto an earthen latrine floor. **(2mks)**

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18. Suggest **two** points to look for when choosing a cloth's wardrobe**.** **(2mks)**

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SECTION B (20 marks)

(Compulsory)

Answer question 19 in the spaces provided.

19. You are home for holiday and your mother has left you a few household tasks to perform.

a) Describe how you would clean your white canvas shoes with laces**.** **(10mks)**

b) Outline how you would launder a bloody or mucus stained handkerchief. **(10mks)**

SECTION C (40 marks)

*Answer any **TWO** questions in this section in the spaces provided.*

20. a) Explain factors to consider when choosing hats. **(8mks)**

b) Discuss **three** points to look for when choosing a sweeping broom. **(6mks)**

c) State **six** activities carried out during the cleaning of a food storage cupboard. **(6mks)**

21. a) Explain **four** factors to consider when choosing an ironing board**.** **(8mks)**

b) Outline **six** anti-social behaviour that adolescents should not engage in. **(6mks)**

c) Explain **three** factors to consider before renting a house. **(6mks)**

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22. a) Explain the functions of the following parts of the body.

i) Dermis **(2mks)**

ii) Sensory nerve ending **(2mks)**

iii) Blood capillaries **(2mks)**

iv) Epidermis **(2mks)**

b) Explain **four** advantages of building a family house**.** **(4mks)**

c) Explain **four** qualities that make plastic buckets and basins popular for use in Kenyan homes **(8mks)**

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EXCELLING STUDENTS FORM 1 MID TERM 2 SERIES 1 EXAMS

NAME: ……..

SCHOOL: ……..

DATE:…….. ADM NO: …… SIGNATURE:……

TERM 2
FORM ONE
IRE
TIME: $2^1/_2$ HRS

INSTRUCTIONS:

1. This paper contains five (5) questions.

2. Answer **all** questions

3. Write your answers in the answer sheet provided.

4. All answers must be in English.

1. a) Give the meaning of the following terms: (8 marks)

i.Islam

ii. Quran

iii. Ulumul Quran

iv. Ar-Rahman

v.Al-Malik

vi. Hadith

vii. Tawheed

viii. Shirk

b) How did angel Jibril help in the revelation of the holy Qur'an? **(6mks)**

c) Identify five other names of the holy Qur'an. **(5mks)**

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2.a) State three teachings of suratul Nasr. **(3mks)**

b) Write the English translation of *Suratul Asr*. **(3mks)**

c) Mention the rules to be followed when reciting the holy Quran. **(8mks)**

3.a) State and explain the forms of Hadith. **(8mks)**

b) Describe how Hadith contribute to Islamic thought and culture? **(10mks)**

c) State the pillars of *Iman* (faith). **(6mks)**

4.a) State and explain the three categories of *Tawheed*. **(6mks)**

b) Discuss five benefits that a Muslim gets when he/she worships Allah alone. **(10mks)**

c) Identify seven angels and the duties each perform. **(7mks)**

5.a) State seven pillars of *swalat.* **(7mks)**

b) Give three situations where the *shahada* is pronounced. **(3mks)**

c) Explain five importance of *Swalatul Jamaa* to Muslims. **(10mks)**

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EXCELLING STUDENTS FORM 1 MID TERM 2 SERIES 1 EXAMS

JINA: …….....

SHULE: …….....

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

KISWAHILI KIDATO CHA KWANZA

MTIHANI WA MUHULA WA 2

MUDA: SAA 2

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. Karatasi hii ina kurasa 7 zilizopigwa chapa
5. **Watahiniwa ni lazima wahakikishe kuwa kurasa zote za karatasi hii zimepigwa chapa sawasawa na kuwa maswali yote yamo.**

Kwa Matumizi ya Mtahini Pekee.

Swali	Upeo	Alama
1. UFAHAMU	15	
2.MATUMIZI YA LUGHA	40	
3.ISIMUJAMII	10	
4.FASIHI SIMULIZI	15	
Jumla	80	

SEHEMU YA A: Soma Taarifa ifuatayo kisha ujibu maswali

Nilianza kusikia habari za ugonjwa wa ukimwi mnamo mwaka wa 1984. Wakati huo nilikuwa nimemaliza masomo yangu ya kidato cha sita na kujiunga na chuo cha walimu kilichopo wilayani Nyeri kiitwacho Kagumo. Nilihofu sana maradhi hapo hasa nilipowaona walioambukizwa wakikondeana mithili ya ng'onda. Baada ya waathiriwa kufariki, jamaa zao hawakurusiwa kawazika. Wizara ya Afya ilitoa amri kali kuwa wale wote waliofariki kutokana na maradhi ya ukimwi wazikwe na kikundi maalum cha

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madaktari na wauguzi wa hospitali za wilayani. Kulikuwa na kasisi mmoja tuliyehusiana kiukoo aliyefariki kutokana na maradhi ya ukimwi. Sisi hatukurusiwa hata kumsongea karibu marehemu alipoletwa nyumbani. Madaktari na wauguzi walivalia majoho meupe ungedhani ni malaika. Mikononi walivaa glovu nyeupe ambazo zilitutisha machoni.

Mara nyingi nimeshangazwa na athari za ugonjwa huu. Inasemekana kuwa kuna njia kadha za usambazaji wa ugonjwa wa ukimwi. Njia moja ni kuhusika katika kitendo cha mapenzi na mtu ambaye ameambukizwa virusi vya ugonjwa huo. Njia nyingine nimeelezwa kuwa ni kwa kutumiwa kwa pamoja vifaa vyenye makali na mtu aliyeambukizwa virusi vya ukimwi. Inasemekana kuwa kugusa damu ya mtu aliyeambukizwa ugonjwa huu kunaweza **kukutia mashakani.**Mama mjamzito aliyeambukizwa ugonjwa huu anaweza kumwambukiza mtoto aliye tumboni anapojifungua na hata baadaye anapomnyonyesha mtoto wake mchanga. Kisha kuna kupokea damu kutoka kwa mtu ambaye tayari ameambukizwa janga hili la ukimwi.

Lakini nimewahi kusikia watu wakisema kuwa ukimwi si maradhi. Yaani ni upungufu tu wa kinga ya kukabiliana na magonjwa na katika mwili wa binadamu. Maadamu ukiweza kuimarisha kinga ya magonjwa katika mwili wako basi unaweza kuishi kwa **miaka na mikaka.**

Anachohitajika mtu ni apate chakula na lishe bora, afanye mazoezi ya kutosha, na kujiepusha na mahusiano ya kimapenzi na watu wengine ambao huenda wakamwambukiza aina tofauti za virusi vya ukimwi. Hayo yakifanyika mwathiriwa huwa na matumaini ya kuishi kwa muda mrefu kwani hatazidiwa na maradhi hayo na mwishowe **kwenda jongomeo**. Kuna haja kubwa ya kujilinda na kuepukana kabisa na janga hili lililotuzingira. Wengi tayari wameshapoteza roho zao. Wengine walioambukizwa wanaugua hospitalini na majumbani mwao kisirisiri. Mungu atujalie heri na atuepushe na shari, kwani utafiti wote ambao umefanywa kuhusu tiba ya uwele huu **haujafua dafu** hata kidogo. Hata hivyo Mola hamtupi mja wake. Dawa za kukabiliana na makali ya virusi vya ukimwi al maarufu ARVs zimevumbuliwa na zimesaidia pakubwa katika kuokoa maisha ya waja wengi ulimwenguni.

MASWALI

(a) Ipe habari hii anwani ifaayo; **(Alm1)**

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(b) Kwa nini mwandishi ana hofu sana ya maradhi ya ukimwi? **(Alm2)**

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(c) Hapo awali watu waliwachukulia vipi walioambukizwa maradhi ya ukimwi? **(Alm2)**

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(d) Eleza njia mbalimbali zinazomfanya mtu kuambukizwa maradhi ya ukimwi? **(Alm3)**

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(e) Je, tunawezaje kuepukana na janga hili la ukimwi? **(Alm2)**

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(f) Mwathiriwa wa virusi vya UKIMWI anaweza kuishi Maisha ya kawaida na kwa miaka mingi akifanya nini? **(alm2)**

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(g) Eleza maana ya msamiati ufuatao kama ulivyotumika katika taarifa. **(Alm3)**

(i) Uwele

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(ii) Haujafua dafu

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(iii) kuenda jongomeo

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2. MATUMIZI YA LUGHA. (ALM 40)

a) Tambua vipashio vya lugha kuanzia kidogo hadi kikubwa **(alm4)**

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b) i) Lugha ya Kiswahili ina aina mbili kuu za sauti. Zitaje. **(alm2)**

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ii) Tofautisha aina mbili za sauti ulizotaja katika b) i) na uzitolee mfano mmojammoja. **(alm2)**

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c) Tambua sifa tatu kwa kila sauti uliyopewa: **(alm3)**

/a/

……

……

/o/

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d) Huku ukizingatia kigezo cha namna hewa inavyozuiliwa wakati wa utamkaji, tambua aina za konsonanti na uzitolee mfano mmoja mmoja. **(alm7)**

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e) Tofautisha kati ya ala tuli na ala sogezi kisha utoe mfano mmoja mmoja kwa kila aina. **(alm2)**

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f) **i.** silabi ni nini? **(alm1)**

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ii. silabi zilizotiwa msitari katika neno lifuatalo ni za aina gani? Kwa nini? **(alm2)**

M-tu

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iii. Andika neno lenye muundo huu wa silabi: KKKI-KI **(alm1)**

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g) Tia shadda katika maneno yaliyokolezwa ili kutoa maana iliyokusudiwa. **(alm2)**

Barabara wanafunzi wapenzi wa Kiswahili **barabara** zote zinaelekea mjini kwa tamasha za muziki.

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h) Maneno yafuatayo yamo katika ngeli gani? **(alm3)**

Kiziwi**……**

Karatasi**……..**

Meza**……..**

i) Tambua maneno yaliyomo kwenye sentensi ifuatayo: **(alm4)**

Mwizi sugu sana na mwenzake walikamatwa na askari ndani ya msitu

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j) Andika katika wingi. **(alm2)**

Mkulima bora hupokea mazao tele kutoka shambani

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k) Kanusha katika wakati ujao. **(alm2)**

Ulisoma vizuri sana

……

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l) Karimu ni kwa -choyo, tua ni kwa**……..** **(alm1)**

m) Tambua kundi nomino na kundi tenzi katika sentensi ifuatayo. **(alm2)**

Wanafunzi wote wenye bidii watapita mtihani huu

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3. ISIMUJAMII (ALAMA 10)

1. Fafanua maana ya msamiati ufuatao: **(alm4)**

Isimu

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……

Jamii

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Isimujamii

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Lugha

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2. Lugha ina umuhimu gani katika jamii yako? **(alm6)**

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4. FASIHI SIMULIZI (ALAMA 15)

a) Fafanua maana ya msamiati ufuatao: **(alm4)**

i.Fasihi

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ii. Sanaa

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iii.fasihi simulizi

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iv.fasihi andishi

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b)Fasihi ina umuhimu gani katika jamii? **(alm6)**

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c) Kwa kutumia hoja tano, linganisha fasihi simulizi na fasihi andishi **(alm5)**

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EXCELLING STUDENTS FORM 1 MID TERM 2 SERIES 1 EXAMS

NAME: ……..

SCHOOL: ……..

DATE:…….. ADM NO: …… SIGNATURE:……

121/ 1 Mathematics Paper 1

FORM 1

MID TERM 2 – Time: 2 ½ hours

Instructions to candidates

1. Write your name, admission number and class in the spaces provided above.
2. The paper contains two sections: **Section I** and **Section II**. Answer **ALL** the questions in **Section I** and **ANY FIVE** questions from **Section II**.
3. All working and answers must be written on the question paper in the spaces provided below each question.
4. Marks may be awarded for correct working even if the answer is wrong.
5. Negligent and slovenly work will be penalized.
6. Non-programmable silent electronic calculators and mathematical tables are allowed for use.

For Examiner's use only

Section I

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

Section II

17	18	19	20	21	Total	Grand Total %	

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SECTION I (50 MARKS)

Answer all the questions in this section.

1. Write the following numbers in words **(3mks)**

i.900079

ii.17006952

iii.3000020739

2. Find the sum of all prime numbers between 0 and 50. **(3mks)**

3. State the place values of the following digits in 52368700941 **(4mks)**

i. 6: _____

ii. 5: _____

iii. 2: _____

iv. 9: _____

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4. The sum of four consecutive numbers is 102. Find the numbers. **(3mks)**

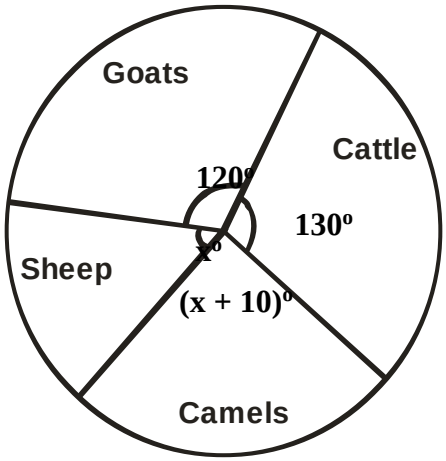
5. Arrange the following fractions in descending order. $\frac{2}{3}, \frac{4}{7}, \frac{7}{10}$ **(3mks)**

6. The GCD and LCM of three numbers are 3 and 504 respectively. If two of the numbers are 24 and 72 respectively, find the least possible value of the third number**.** **(3mks)**

7. Find the perimeter of a square whose area is 289 cm^2. **(3mks)**

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8. A farmer has four types of animals on his farm. The pie chart below represents the number of animals on the farm. If the number of goats were 30, calculate the number of camels on the farm. **(4mks)**



9. Factorise $4pqr^2 + 6p^2qr^2 - 2pq^2r^2$ **(3mks)**

10. Convert $0.4\dot{2}\dot{7}$ into fraction. **(3mks)**

11. Evaluate $\dfrac{8\frac{1}{8} - 2\frac{1}{2}}{5\frac{3}{20} - 1\frac{1}{6} \text{ of } 1\frac{1}{5}}$ **(3mks)**

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12. Work out $1305 \div (670 - 235) + 6 \times 780 \div 13$ **(3mks)**

13. Is 43516902 divisible by 11? Show your working. **(3mks)**

14. Express the following in terms of their prime factors. **(3mks)**

i. 72

ii. 686

iii. 1152

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15. Evaluate 55.31 + 100.184 – 143.9455 leaving your answer in standard form. **(3mks)**

16. Show that 35600 is divisible by 8 and not 3. **(3mks)**

SECTION II (50 MARKS)

Answer any FIVE questions in this section.

17. Use squares and square root tables to solve the following **(10mks)**

(i) $4.56^2 - \sqrt{30.4}$

(ii) $\sqrt{0.846} + \sqrt{0.095}$

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(iii) $20.7^2 - \sqrt{10486}$

(iv) $0.7865^2 - \sqrt{0.007267}$

(v) $7.059^2 - \sqrt{1850}$

18. (a) Without using mathematical tables or a calculator, evaluate **(5mks)**

$$\frac{2\frac{2}{7}-4\frac{1}{5}}{4-(-3)^2}+\frac{1}{35}$$

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(b) A fruit dealer blends the fruit juice in a common container to the brim before choosing the quantities in which to distribute them. She can pack them in either 20 litres, 24 litres or 36 litres can before selling them. If she chooses 20 litres cans she remains with 13 litres while when she uses 24 litres 17 litres remain in a container and 29 litres remain when distributed in 36 litres cans. Determine the least capacity of her container in litres. **(5mks)**

19. (a) A mother is three and a half times as old as her daughter now. Five years ago, the sum of their ages was equal to the mother's age four years from now. Taking the daughter's present age as d years, find the mother's actual age in 15 years. **(4mks)**

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(b) Annette has some money in two denominations only. Fifty shillings notes and twenty shilling coins. She has three times as many fifty shilling notes as twenty shilling coins. If altogether she has sh. 3,400, find the number of fifty shilling notes and 20 shilling coin. **(3mks)**

(c) The mean of five numbers is 20. The mean of the first three numbers is 16. The fifth number is greater than the fourth by 8. Find the fifth number. **(3mks)**

20. Use number lines to perform the following operations **(10mks)**

a) (+5) – (3)

b) (-4) + (2)

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c) (+2) + (+5) + (-8)

d)(-3) + (+6)- (-2)

e) (+2) + (-6) – (+3) – (-4)

21. (a) The area of a triangle whose height is equal to the length of its base is 40.25 cm^2.

Calculate the length of the base. **(3mks)**

(b) Without using a calculator and tables, evaluate **(4mks)**

$$\frac{11.7x0.036x5.8}{130x1.45x7.2}$$

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(c) A vegetable vendor had 1348 cabbages. He sold 750 on the first day and 240 on the second day. He added 466 to the remaining stock on the third day. **(3mks)**

(i) How many cabbages did he have at the end?

(ii) If he sold the cabbages at a cost of shs 15, how much money did he get?

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EXCELLING STUDENTS FORM 1 MID TERM 2 SERIES 1 EXAMS

NAME: ……..

SCHOOL: ……..

DATE:…….. ADM NO: …… SIGNATURE:……

PHYSICS THEORY

Time: 2 hours

Kenya Certificate of Secondary Education

PHYSICS

FORM 1 PHYSICS

MID TERM 2

Instructions to Candidates

- Write your name, admission number, class and signature in the spaces provided at the top of the page.
- Answer **ALL** the questions in the spaces provided.
- All working MUST be clearly shown.
- This paper consists of **8** printed pages.
- Candidates should answer the questions in English and check to ensure that no question(s) is missing.

FOR EXAMINER'S USE ONLY

QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
1-18	60	

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

1. What is Physics? **(1mk)**

……

……

2. State and explain any two branches of physics. **(4mks)**

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3. Explain the relationship between Physics and:

(i) Religious studies**.** **(1mk)**

……

……

(ii) Biology**.** **(1mk)**

……

……

(iii) Geography**.** **(1mk)**

……

……

4. Distinguish between derived physical quantities and basic physical quantities giving examples in each. **(4mks)**

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5. The diagram in figure 1 below shows a piece of sewing thread wound 12 times on a ruler.

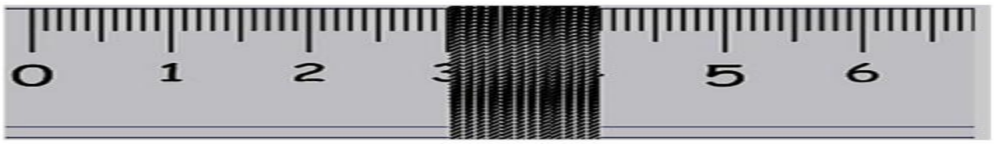


Figure 1

Determine the thickness of the sewing thread**.** **(3mks)**

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6. a) Draw a $50cm^3$ burette containing water of volume $28.2cm^3$. **(2mks)**

b) If 60 drops of water fell from the burette above, the final level of water was $42cm^3$.Calculate the volume of one drop**.** **(3mks)**

7. Define density and state its S.I units**.** **(2mks)**

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8. Figure 2 below shows a girl viewing an overhead tank carrying a liquid of mass 8,400 kg. the tank is calibrated in m^3.

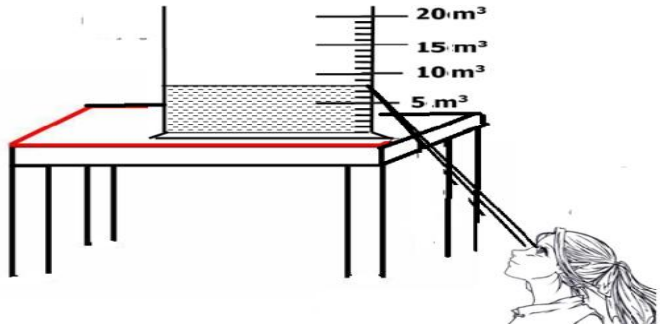


Figure 2

The girl read the volume from the tank and then used it for further calculation.

Determine;

i. The volume of the liquid in the overhead tank in cm^3. **(2mks)**

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ii. The density of the liquid as obtained by the girl**.** **(3mks)**

9. Explain why, while working in the laboratory it is advisable to:

i. NOT touch exposed electrical wires. **(1mk)**

……

……

ii. NEVER taste, drink or eat anything in the laboratory**.** **(1mk)**

……

……

10. Define force and state its S.I units**.** **(2mks)**

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11. Two horizontal springs are attached to a block, resting on a frictionless surface, as shown in figure 3 below. A force of 100N pulls on one spring. The block does not move. Find the value of the force on the other spring**.** **(2mks)**



Figure 3

12. State 3 effects of a force. **(3mks)**

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13. Name any two instruments you would use to measure mass in the laboratory. **(2mks)**

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14. An astronaut has a mass of 65Kg on earth's surface.

Calculate:

i. His weight on earth , given that earths gravitational field strength is $10\,N/Kg$. **(2mks)**

ii. His mass on the moon. (Give a reason for your answer.) **(2mks)**

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iii. The gravitational field strength of the moon, where his weight was determined to be 108.33N. **(2mks)**

15. Estimate the area of the irregular surface shown in the figure 4 below by counting the small squares.

The area of one complete square is $1cm^2$**.** **(3mks)**

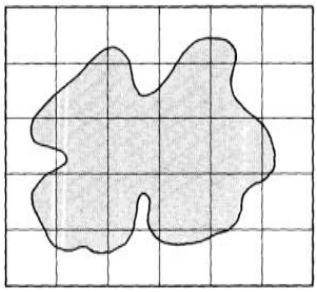


Figure 4

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16. In an experiment to determine the density of sand using a density bottle, the following measurements were recorded;

$$Mass\ of\ empty\ density\ bottle = 43.2g$$
$$Mass\ of\ density\ bottle\ full\ of\ water = 66.4g$$
$$Mass\ of\ density\ bottle\ with\ some\ sand = 67.0g$$
$$Mass\ of\ density\ bottle\ with\ the\ sand\ filled\ up\ with\ water = 82.3g$$

Use the above data to determine the following:

a) Mass of the water that completely filled the density bottle. **(1mk)**

b) Volume of water that completely filled the density bottle
(density of water = 1.0 gcm^{-3}) **(2mks)**

c) Volume of the density bottle**.** **(1mk)**

d) Mass of sand. **(1mk)**

e) Mass of water that filled the space above the sand. **(1mk)**

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f) Volume of sand**.** **(2mks)**

g) Density of the sand. **(2mks)**

17. Explain why it is easier to ride a bicycle round a bend on a road if the surface is dry than when it is wet. **(1mk)**

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18. Define pressure and state its SI units. **(2mks)**

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END.

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