FORM 1 ENDTERM 3 EXAMS

ALL SUBJECTS

SERIES 1

SUBJECTS COMPILED:

Maths,English,Kiswahili,Biology,Chemistry,Physics,History,CRE,Geography,Agriculture &Business Studies.

A Collection of well-organized standard updated End of Term Three Test Examinations for our Current Form 1 Students in all Schools in Kenya.

Contact Mr Isaboke for marking schemes.

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MWALIMU AGENCY

FORM 1 ENDTERM 3 EXAMS

(SERIES 1)

BIOLOGY

TIME: 2 HOURS

NAME…… ADM NO……

SIGN…… DATE;……

QUESTIONS

1. State the name given to the study of **(2mks)**

(i) Insects

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(ii) Classification of living organisms.

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2. (a) Name the products of complete hydrolysis of sucrose. **(1mk)**

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(**b)** What happens to these products named in (a) above, when they are excess in the body of man. **(2mks)**

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3. (a) State the roles of light in plant nutrition. **(2mks)**

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(b) Give a reason why glucose formed at the end of photosynthesis is converted at once into starch. **(1mk)**

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4. (a) State the formula for calculating linear magnification of a specimen when using a hand lens. **(1mk)**

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(b) Give **one** functional advantage of use of the following microscopes. **(2mks)**

(i) Light Microscope

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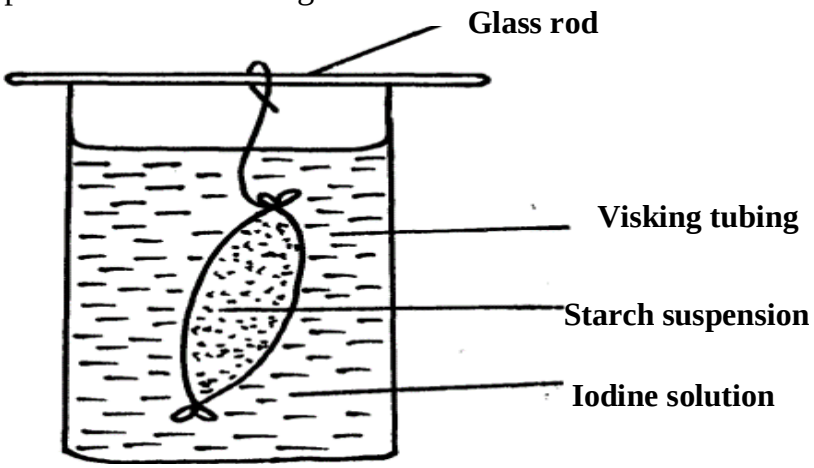
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(ii) Electron Microscope.

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5. An investigation was set up as shown in the diagram below.



After 30 minutes, starch suspension had turned blue-black while iodine solution retained its colour.

(a) Name the physiological process that was being investigated in the experiment. **(1mk)**

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(b) Account for the results observed after 30 minutes. **(3mks)**

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6. Define the term osmosis**.** **(2mks)**

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7. (a) Distinguish between homodonts and heterodonts. **(1mk)**

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(b)A certain mammal has no incisors, no canines, 6 premolars and 6 molars in the upper jaw. In the lower jaw, there are 6 incisors, 2 canines, 6 premolars and 6 molars.

(i) Write down the dental formular of this mammal. **(1mk)**

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(ii) What is the mode of nutrition of this mammal? **(1mk)**

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8. The reaction represented by equation below occurs in the body

Hydrogen peroxide ⟶ Oxygen + Water

(a) Name enzyme **Z** **(1mk)**

……

(b) Name an organ in the human body where this reaction occurs **(1mk)**

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(c) State the biological importance of the reaction above **(1mk)**

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9. State how each of the cells below are specialized to carry out their functions

(a) Palisade cell **(1mk)**

……

(b) A sperm cell **(1mk)**

……

10. State the functions of each of the following organelles.

(i) Ribosomes **(1mk)**

……

(ii) Golgi apparatus **(1mk)**

……

11. Name the bond that exists between amino acids during condensation process of forming proteins? **(1mk)**

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12. Explain how the following factors affect the rate of photosynthesis

(a) Concentration of carbon (iv) oxide. **(1mk)**

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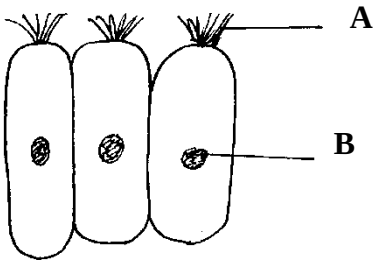
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(b) Light intensity **(1mk)**

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13. Study the figure below which shows a type of epithelial tissue



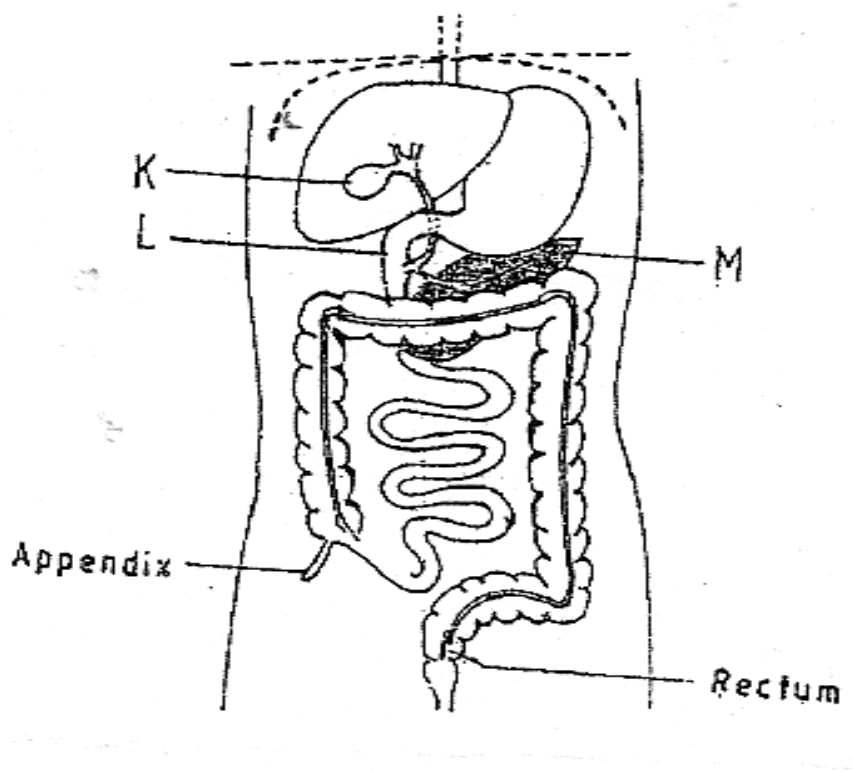
(a) State the name of structure **A**. **(1mk)**

……

(b) Give an example in humans where this epithelium is found **(1mk)**

……

14. The diagram below represents part of the human digestive system.



Name the organs labeled L and M. **(2mks)**

L: ……

M: ……..

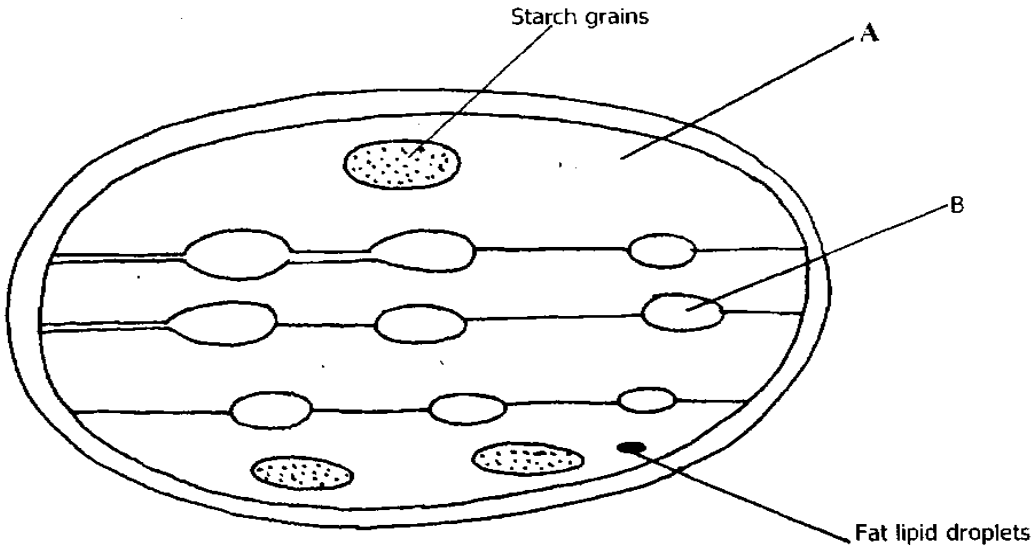
15. Some form one students wanted to collect the following animals for study in the Laboratory. State the suitable apparatus they should use.

i) Flying insects ..... **(1mark)**

ii) Crawling stinging insects ..... **(1mark)**

iii) Small animals from tree barks ..... **(1mark)**

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



a) Identify the structures labeled A and B **(2marks)**

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b) What process takes place in the parts labeled A and B **(2mark)**

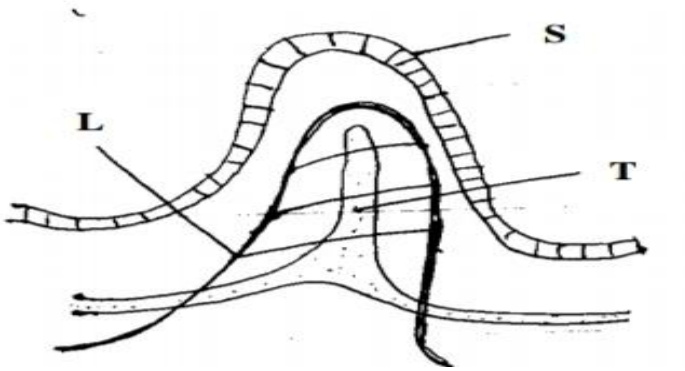
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17. A student estimated the diameter of a field of view to be 2.8mm. The diameter was occupied by four onion cells. Estimate in micrometers the diameter of onion cell. Show your working.

(2 marks)

18. The diagram below represents structure found in the walls of ileum.



a) Identify the structure shown in the diagram. **(1 mark)**

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b) Name parts labeled S, T and L. **(3 marks)**

S .....

T .....

L .....

c) Name products of digestion which are absorbed into; **(2 marks)**

L .....

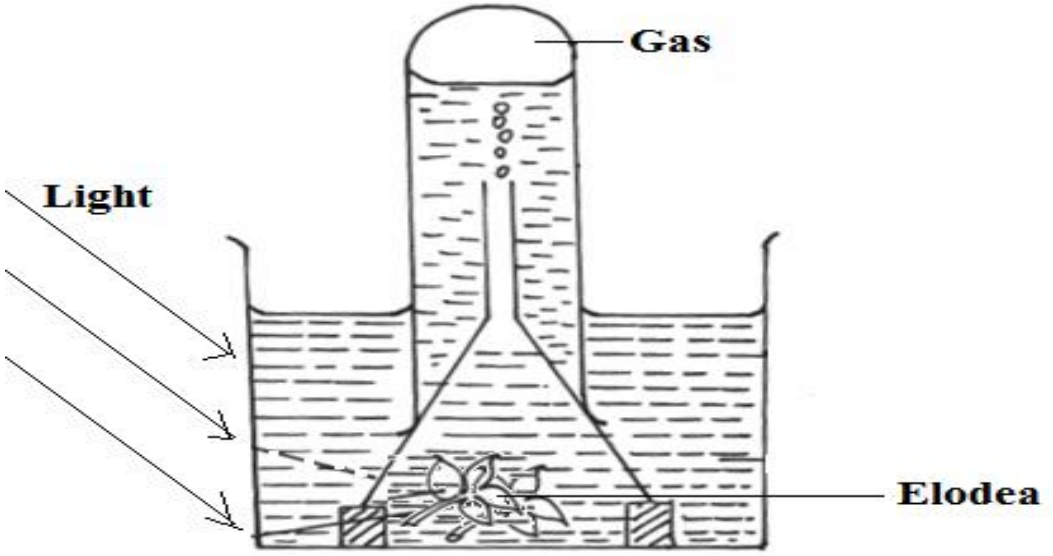
T .....

d) State how the above structure is adapted to its function. **(2 marks)**

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19. The diagram below represents a set up that was used to investigate a certain process in a plant.



(a) State the process that was being investigated. **(1 mark)**

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(b) Other than the factors shown, state two factors that would affect the process named in (a) above.

(2 mark)

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20. Outline two roles of active transport in human beings. **(2 marks)**

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21. Write the role of the following parts of microscope. **(3marks)**

i) Mirror

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ii) Diaphragm

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ii) Coarse adjustment knob

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22. Explain why plant cells do not burst when immersed in distilled water**.** **(2mks)**

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23. (a)State two functions of bile juice in the digestion of food? **(2marks)**

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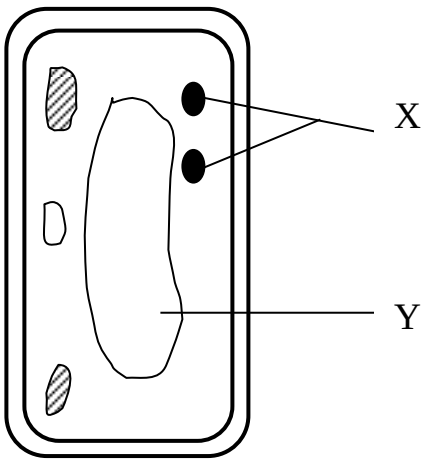
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(b) How does substances concentration affect the rate of enzyme reaction**?** **(1mark)**

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24. The diagram below represents a cell



a) Name the parts labeled X and Y **(2marks)**

X .....

Y .....

b) State why the structures labeled X would be more on one side than the other side**.(1mark)**

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25. a) What is diffusion **(2marks)**

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b) How does diffusion gradient affect the rate of diffusion? **(1mark)**

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FORM 1 ENDTERM 3 EXAMS

(SERIES 1)

ENGLISH

TIME: 2 HOURS

NAME…… ADM NO……

SIGN…… DATE;……

COMPOSITION. (20 MRKS)

I could hardly sleep that night simply because**.....**

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Read the following passage and answer the questions that follow.

Human Rights

One area that the constitution of Kenya of Review Commission will have to seriously discuss and upgrade is that of human rights .

Human rights is a very fundamental component of any political process .When you talk of a democratic constitution , you are simply talking about human rights .When you talk of good governance you are; in essence , urging people to respect human rights .

Human rights form the foundation of the human family.The very existence of the human race depends on the fact that we recognize everyone's right to live and to enjoy freedom and security .If we did not guarantee each person these rights , the human family would stare extinction in face.

There is , therefore , need to rewrite the Kenya Constitution from a human rights'perspective .In any case , the clamour for constitutional review was **precipitated** by extensive abuse of human rights and liberties of the citizens .Days are not forgotten yet when police brutality was the order of the day.The officers charged with the responsibility of protecting the citizens would mercilessly club and kick one senseless in the name of maintaining law and order.

The issue of human rights should therefore be central in the constitution .It should **supersede**all other issues like the presidency , parliament , the judiciary and other organs of government .

Kenyans have the rights of association and individuals are free to express themselves even if the views are not in line with the thinking of the **powers that be .**In this particular respect , we should never again allow these basic human rights to be denied to us .No longer must we allow detention without trial to be used as a weapon to silence those who dare raise their voices against gross injustices in society .

Subsumed in the concept of human rights are children's rights .For a long time , society has tended to ignore this area.Stories are reported in the newspapers of children being tortured , forced to work , denied the opportunity to go to school , married off when they are of school age and circumcised against their own will .Even more horrifying are cases in which defenseless children ,sometimes just a couple of months old , are brutally defiled .Yet others are wrapped in plastic bags and thrown in dumping sites to be devoured by scavenging dogs.

Without legislation to protect children's rights , these **atrocities** are bound to increase .However , legal measures have been instituted and most of these heinous deeds have now been criminalized.

Answer the following questions

1.What is the work of the constitution of Kenya Review Commission (CKRC) ? **(2mks)**

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2.What constitutes good governance ? **(2mks)**

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3.How would the denial of the right to life and security lead to extinction of the human family? **(2mks)**

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4.Explain what a constitution is according to the passage. **(2mks)**

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5.Identify four human rights mentioned in the passage. **(4mks)**

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6.What can Kenyans do to ensure that no basic human right is deniedfrom anyone . **(4mks)**

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7.Rewrite the following sentence in singular:

Even more horrifying are cases in which defenseless children, sometimes just a couple of months old are brutally defiled . **(1mk)**

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8.Explain the meanings of the following words

(a) Precipitated

(b) Supersede

(c) Atrocities

KARIA

Once upon a time there lived a very beautiful girl known as Karia in a distant village. One day, Karia and her mother went to dig in the garden by the edge of the forest that was home ogres that could talk and sing. When it was time to leave, the mother out called her daughter who was bathing in the stream near the garden."Karia" we had better rush home; darkness will soon descend upon us and there are many ogres along the way.

Karia hurriedly picked up the luggage her mother her mother had packed and they went home.

Once reaching home, karia realized that she had left her beautiful neckless by the stream where she had taken a bath. Her grandmother had given to her saying, "take good care of this neckless and pass it on to your eldest daughter." Karia was very depressed at the fact that she had left it beside the stream.

'Mother, I have to go back for the neckless. I forgot it by the stream,' Karia said.

"No my daughter, it is already dark outside and besides the ogres are roaming the forest."

She could not bear the thought of her only daughter setting out in the pitch darkness.

The girl started crying, saying that if she waited for daylight, she would find the neckless missing. Her mother withdrew to the kitchen to check whether the food was ready. She came out only to find Karia missing.

"karia, karia! Karia! Where are you? Come!" she called out. It dawned on her that karia must have gone back to the stream for the neckless. She immediately run to her brother-in-law's home in search of her husband panting; "father of karia, gather other men, karia has gone back to the stream for her neckless! Oh, my only daughter ……those ogres……. What will I do?"

"What is wrong with my daughter? I could have bought her another necklace ", said karia's father.

It took about an hour for men to prepare and set out to for the search. Their hearts beat with apprehension as they pressed through the dark.

Karia had been running swiftly and by this time was by the edge of the forest. She slowed down for the remaining part of the journey in order to catch her breath. The early morning chilled her skin. The thought, "if I fail to get the neckless, what will I tell my granny?" quickened her pace to where she had undressed and found that her neckless was intact. Joy flooded her heart. She quickly picked up the necklessand started on her way home with a springy leap, laughing at her mother's fear of ogres.

She had hardly taken a few steps, when she met an ogre squarely planted in the middle of the path. In order to be allowed to pass shesang:

You ogre
Do not bother me
I am njanwa's daughter
Take this bead
And let me pass

The ogre accepted the bead and let her pass only to run through the bush past her and stop in the middle of the road. She reached the point where it stood blocking the way and she repeated her song. By the time she was half way back home, she had run out of beads. Having no alternative, she tearfully said, "take this arm let me pass."

Through her sorrow and pain, she thought of the necklace and the ogre that still demanded something in exchange for passage.

After a while, she had only one leg and so the ogre decided to eat her up. Her father and the village elders came upon the satisfied ogre. They spared it and slit open its belly. To their delight, karia emerged, holding the beautiful necklace.

There ends the story.

Questions

(a) What type of narrative is this? **(2mks)**

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(b) State the functions of the formula used in the story. **(4mks)**

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(c) State and illustrate any three oral features of narratives evident in the story. **(6mks)**

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(d) Identify two socio-economic activities of the community in this community. **(2mks)**

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(e) Identify and illustrate two character traits of Karia. **(2mks)**

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(f) Explain one lesson learnt from the story. **(2mks)**

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3.GRAMMAR

1. Replace the underlined phrases in the sentences below using a suitable collective noun. (4mks)

a) The Kenya Defence force operate<u>a large number of ships.</u>

b) The <u>father, mother and children</u> attended the wedding ceremony.

c) A fisherman normally nets <u>a large number of fish</u> at lake Victoria.

d) The tourists were excited on seeing <u>large groups of elephants</u>.

2. Fill in the blanks using the simple present forms of verb in the brackets.(4mks)

a) My luggage……..very heavy (be)

b) Omindo and Khaemba……at sugar company (work)

c) Each athletic ……their exercises early in the morning.(do)

d)He normally…….a bus to the city center.(take)

3. Rewrite these sentences in the past tense form. (3mks)

a) Miano prefers to swim early in the morning.

b) Whenever the president visits a school he plants a tree.

c) Are you planning to attend the trade fair this year?

4. Fill in the gaps in the following passage with the correct form of the word given in bracket (6mks)

Malaika liked watching her children as they played. Although she ……(feel) that life was ……(good) when she was younger, she …….(know) that things will never be same again. She remembered that as she was …….(grow) up, most of people were ……..(generous) than people today. Urbanization truly was a double edge sword. It had ……(lead) to the degeneration of values in the society.

5. Rewrite the following sentences in their superlative form. (3mks)

a. Mukani is a pretty girl.

b. The governor is a senior officer in a county.

c. Kaluki considers English as a good subject.

6. Replace the underlined phrases with a suitable adverb. (2mks)
i) The teacher walked into the classroom in a quick manner.

ii) Ali drove the pickup truck in a careless manner along the dusty road

8. Complete the following sentences using ths correct word from this given in brackets.(2mks)
i) The material is rather ……(coarse, course)
ii) I stopped seeing the dog……..(all together, altogether)
9. Fill the gaps in the following sentences by using the correct form of the word in brackets. (2mks)
a) The …… of the factory dealt a big blow to the workers. (close)
b) The family has enjoyed a deep sense of …….for the last decade. (cohesive)
10. Rewrite the following sentences in the plural form. (3mks)
a) A night flight is more comfortable for me.

b) The Commander-in-chief is the most powerful person in the armed forces.

c) Her new table cloth has beautiful colours.

13. Fill in the blanks in the sentences below with suitable pronouns**.** **(2mks)**
a) Can…….be good friends? You and I have known each other for long enough.
b) I cannot allow……..to take over the restaurant before she is well trained.

FORM 1 ENDTERM 3 EXAMS

(SERIES 1)

GEOGRAPHY

TIME: 2 HOURS

NAME…… ADM NO……

SIGN…… DATE;……

INSTRUCTIONS.

Answer all the questions in the spaces provided.

1. a. Give three reasons why it is important to study Geography. **(3mks)**

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b. Name any three study areas in physical geography. **(3mks)**

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ii. List six disciplines related to geography. **(6mks)**

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2. a. What is a line of longitude? **(2mks)**

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b. What is the local time at Alexandria 30^{O}E when the local time at Malindi 40^{O}E is 12:00 noon?

(4mks)

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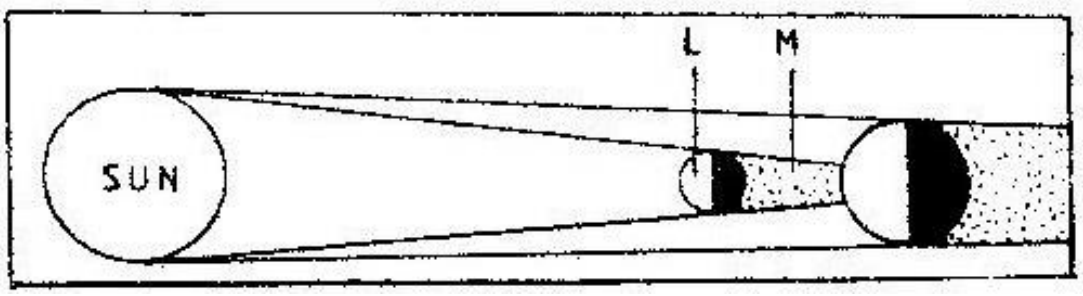
c. What is a solar system? **(2mks)**

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ii. Use the diagram below and answer the questions that follow.



What type of eclipse is represented by the diagram? **(1mk)**

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Name the features marked L and M. **(2mks)**

L -

M -

d. Define equinox. **(2mks)**

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ii. State the characteristics of summer solstice. **(4mks)**

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3. Name four layers of the earth's atmosphere. **(4mks)**

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b. The table below represent rainfall and temperature of station Y. use it to answer question (i) and (II).

Station Y

Months	J	F	M	A	M	J	J	A	S	O	N	D
Temp ^{o}C	21	20	20	17	15	13	12	13	15	16	18	20
Rainfall (mm)	12	12	15	15	90	110	87	87	50	35	20	15

(iii) In station Y. calculate the mean annual range of temperature. **(2mks)**

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(iv) Calculate the annual rainfall for station y. **(2mks)**

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ii. Describe how convectional rainfall is formed. **(6mks)**

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4. State two types of statistical data. **(2mks)**

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ii. What factors must be considered in selecting methods of data collection. **(4mks)**

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b. marks: 72, 60, 65, 70, 65, 80, 65,70, 80, 84, 63,75,63,71, 74.

i. Use the data above to find out the mean. **(2mks)**

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ii. Use the data above to find out the median. **(2mks)**

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iii. Use the data above and find the mode. **(2mks)**

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(v) What is the significance of statistics in geography? **(5mks)**

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ii. Name two main methods used in analyzing statistical data. **(2mks)**

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5. List three types of field work. **(3mks)**

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b. Explain the importance of field work. **(5mks)**

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FORM 1 ENDTERM 3 EXAMS

(SERIES 1)

HISTORY

TIME: 2 HOURS

NAME…… ADM NO……

SIGN…… DATE;……

QUESTIONS

1. Define the term History **(1mk)**

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2.Name two aspects of History **(2mks)**

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3.Mention two arms of Kenyan government **(2mks)**

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4.Name two forms of oral tradition **(2mks)**

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5.Identify the scientific theory of evolution **(1mk)**

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6.State two reasons which made the earliest manuals to live on trees **(2mks)**

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7.Give the name given to a homo erectus remains found in Asia **(1mk)**

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8.Mention two sub-species of homosapiens **(2mks)**

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9.What is stone –age period **(1mk)**

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10. Mention the earliest animal to be domesticated by man **(1mk)**

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11.Outline two factors that led to success of agriculture in Mesopotamia **(2mks)**

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12. State two factors that marked agrarian revolution in Britain **(2mks)**

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13. Highlight two ways how HIV/AID disease contribute to food shortage in Kenya **(2mks)**

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14. State two communities that belong to the coastal Bantu **(2mks)**

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15. Who is the head of the county government? **(1mks)**

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16.Give the name of Maasai God **(1mk)**

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SECTION B (answer any two questions from this section)

17.a)Outline five reasons why the Bantu migrated from Shungwaya area **(5mks)**

b)Explain five effects of the Bantu migration and settlement in Kenya **(10mks)**

18.a)Mention five archaeological sites in **Kenya** **(5mks)**

b)Explain five reasons why Africa is regarded as the original homeland of mankind **(10mks)**

19.a)Mention the earliest crops to be domesticated by man **(3mks)**

b)Explain the importance of domestic animals to early man **(12mks)**

SECTION C 15 MARKS

(answer any one question from this section)

20.a)Give three arms of the government **(3mks)**

b)Explain reasons why government is studied in schools **(10mks)**

21.a)State five forms of government **(5mks)**

b)Explain five characteristics of a government **(10mks)**

FORM 1 ENDTERM 3 EXAMS

(SERIES 1)

PHYSICS

TIME: 2 HOURS

NAME…… ADM NO……

SIGN…… DATE;……

INSTRUCTIONS TO CANDIDATES:

- Write your name, admission number and class in the spaces provided above.
- The paper consist of two Sections A and **B**. Answer all the questions in the spaces provided.
- Mathematical tables may be used.

FOR EXAMINER'S USE ONLY:

SECTION	MAXIMUM SCORE	CANDIDATE'S SCORE
A	40	
B	30	

TOTAL SCORE

SECTION A - (40 MARKS)

1. Define the term physics. **(1 mark)**

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2. **State three** career opportunities related to physics. **(3 marks)**

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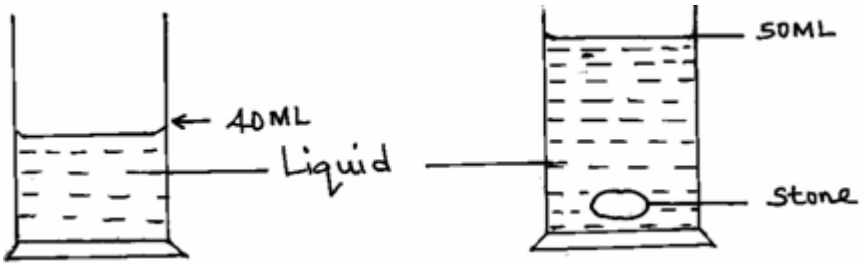
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3. The table **below** shows some basic quantities and their SI units. Complete the table to show the missing entries. **(2 marks)**

	Quantity	S.I unit	Symbols
1		Candela	
2	Amount of substances		

4. A stone of mass, 40g was completely immersed in a liquid. The levels of the liquids are shown in the figure.



Determine the density of the stone in SI unit. **(2 marks)**

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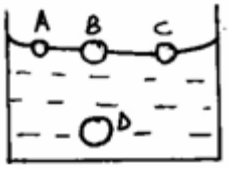
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5. **(a)**One of the factors that affect surface tension is temperature of the liquid. State o**ne** other factor. **(1 mark)**

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c) Use surface molecules **A**, **B**, **C** and inner molecule **D** shown **below**, to explain why surface of a liquid is under tension. **(2 marks)**



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6. Name **two** forces that determine the shape of a liquid drop on a solid surface. **(2 marks)**

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7. 1800cm^3 of fresh water of density 1000kg/m^3 is mixed with 2200cm^3 of sea water of density 1025kg/m^3. Calculate the density of the mixture **(4mks)**

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8. State the reason why it may not be possible to suck a liquid in to your mouth using a drinking straw in the surface of the moon. **(1 mark)**

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9. In building construction, beans made of concrete are reinforced with steel. Explain.**(2 marks)**

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10. When a liquid is heated in a glass flask, its level first falls and then rises. Explain this observation. **(2 marks)**

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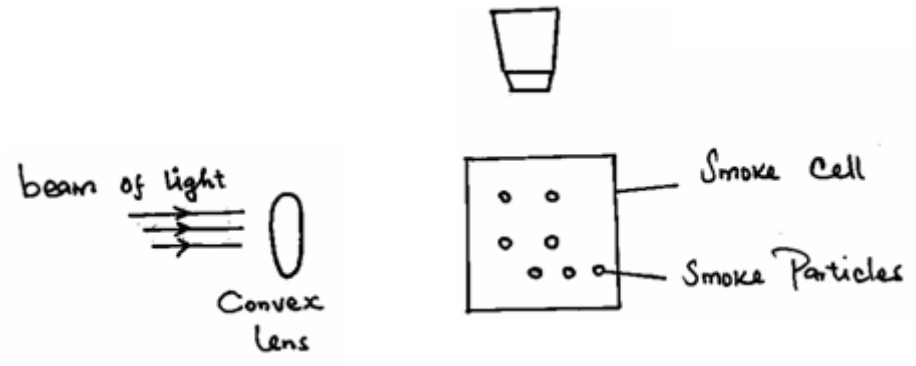
11. Name the thermometric liquid that is most suitable to use in very cold places. **(1 mark)**

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12. (a) State **one** factor which makes gases compressible. **(1 mark)**

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(b) The figure **below** shows a set up used to demonstrate Brownian motion in gases.



State the role of the; **(3 marks)**

(c) Convex lens.

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(d) Microscope.

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(iii) Beam of light.

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(c) Define the term diffusion. **(1 mark)**

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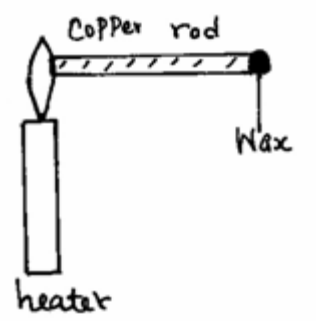
13. Highlight **two** factors which shows that heat from the sun does reach the earth surface by convection. **(2 marks)**

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14. The figure **below** shows some wax at the end of a copper rod.



State **three** factors that affect the rate at which the wax melts. **(3 marks)**

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15. (a) Define force and give its S.I units **(2mks)**

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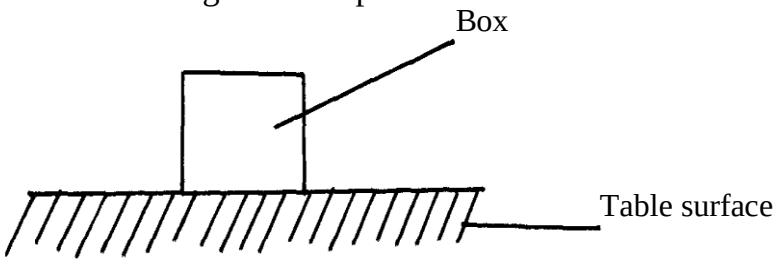
(b) State **three** effects of force on an object **(3mks)**

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(c) Name and show forces acting on a box placed on a table. **(2mks)**



SECTION B - (30 MARKS)

1. A ream of foolscaps containing 500 papers has a thickness of 50mm and a mass of 2kg. if it has a width of 200mm and a length of 300mm, find;

1. The thickness of one sheet of paper **(2 marks)**

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2. The mass of one sheet of paper **(2 marks)**

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3. The volume of one sheet of paper **(3 marks)**

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4. The density of the paper. **(3 marks)**

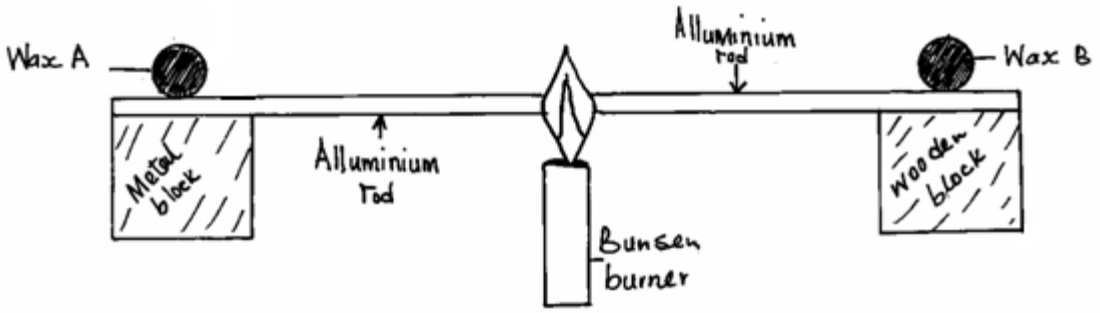
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17. (a) **Two** identical aluminium rods shown in the figure **below** are heated by the same Bunsen burner. One rests on a metal block and the other on a wooden block.



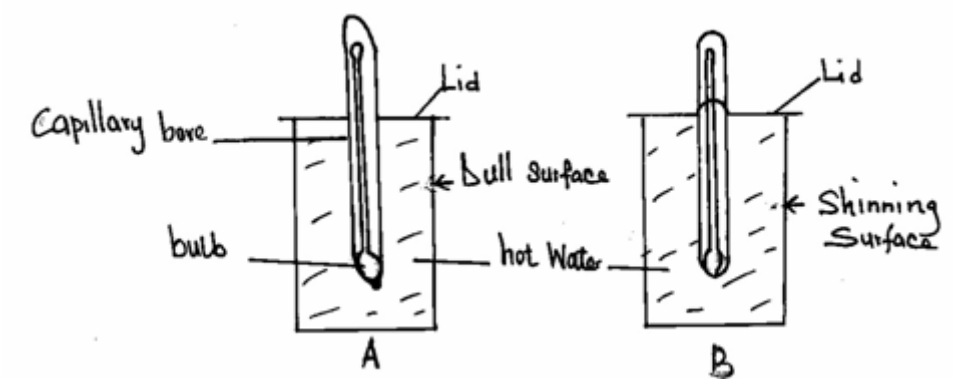
State with a reason which wax is likely to melt. **(2 marks)**

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(vi) Two identical cans **A** and **B** were each filled with hot water at the same temperature and covered with an air tight lid as shown **below**.



Given that the outer surface of can **A** is dull while that of **B** is shiny, state with a reason which thermometer would show lower temperature after ten minutes. **(2 marks)**

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(c) State the purpose of the following features of a thermometer. **(3 marks)**

(i) Narrow capillary bore.

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(ii) Thin bulb.

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(iii) Thick glass stem.

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(vii) State **three** properties of mercury that makes it a good thermometric liquid**. (3 marks)**

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18. States the reason why it is not correct to quote the weight of solid objects in kilograms. **(1 mk)**

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19. Wasike found that the width of his desk was approximately 10 palm-lengths. If his palm was 15.0cm long, what was the width of his desk in metres? **(3 mks)**

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20. Describe how to estimate the height of a tree using a rod of about 2m long and a tape measure. **(3 mks)**

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21. The mass of an empty density bottle is 20g its mass when filled with water is 40.0g and 50.0 when filled with liquid x. Calculate the density of liquid X if the density of water is 1000kgm^{-3}. **(3 mks)**

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FORM 1 ENDTERM 3 EXAMS

(SERIES 1)

AGRICULTURE

TIME: 2 HOURS

NAME…… ADM NO……

SIGN…… DATE;……

INSTRUCTIONS.

Answer all the questions in the spaces provided.

1. Give four reasons for ridging in potato production. **(2mks)**

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2. List four activities carried out in secondary cultivation. **(2mks)**

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3. Name two methods of water collection in the farm. **(1mk)**

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4. State any six art activities in agriculture. **(3mks)**

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5. List four advantages of mixed farming. **(4mks)**

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6. List four characteristics of a crop grown for green manure. **(4mks)**

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7. What is organic farming? **(1mk)**

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8. State four characteristics of large scale farming system. **(4mks)**

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9. Mention the importance of agriculture in Kenya's economy. **(4mks)**

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10. State four human factors that affect agriculture. **(4mks)**

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11. State four methods of drainage. **(2mks)**

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12. State two reasons why nomads move with their livestock from place to place. **(1mk)**

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13. State four problems associated with shifting cultivation. **(2mks)**

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14. State four characteristics of clay soil. **(2mks)**

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15. What is agro forestry? **(1mk)**

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16. Why is it important to prepare land before planting? **(4mks)**

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17. Name four types of water pumps. **(2mks)**

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18. What is pollution? **(1mk)**

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19. State six characteristics of a fertile soil. **(3mks)**

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20. State six ways in which soil loses fertility. **(3mks)**

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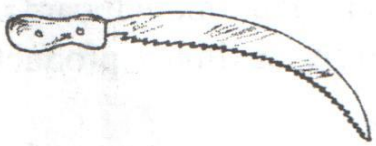
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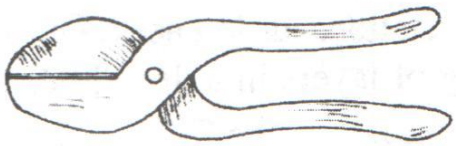
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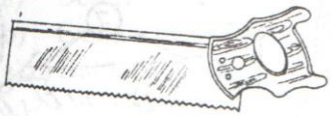
21. Examine the farm tools drawn below and then answer the questions that follow.



(i)



(ii)



(iii)



(iv)

iii) Identify the tools. **(2mks)**

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iv) State the uses of the tools (ii) and (iv). **(2mks)**

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v) State four maintenance practices carried out on tool. **(2mks)**

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22. Name four types if tools used in smoothing wood. **(2mks)**

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23. Differentiate between a drenching gun and a bolus gun. **(2mks)**

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24. State four reasons why it is important to maintain farm tools and equipment. **(4mks)**

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25. What is the functional difference between a cold chisel and a wood chisel? **(2mks)**

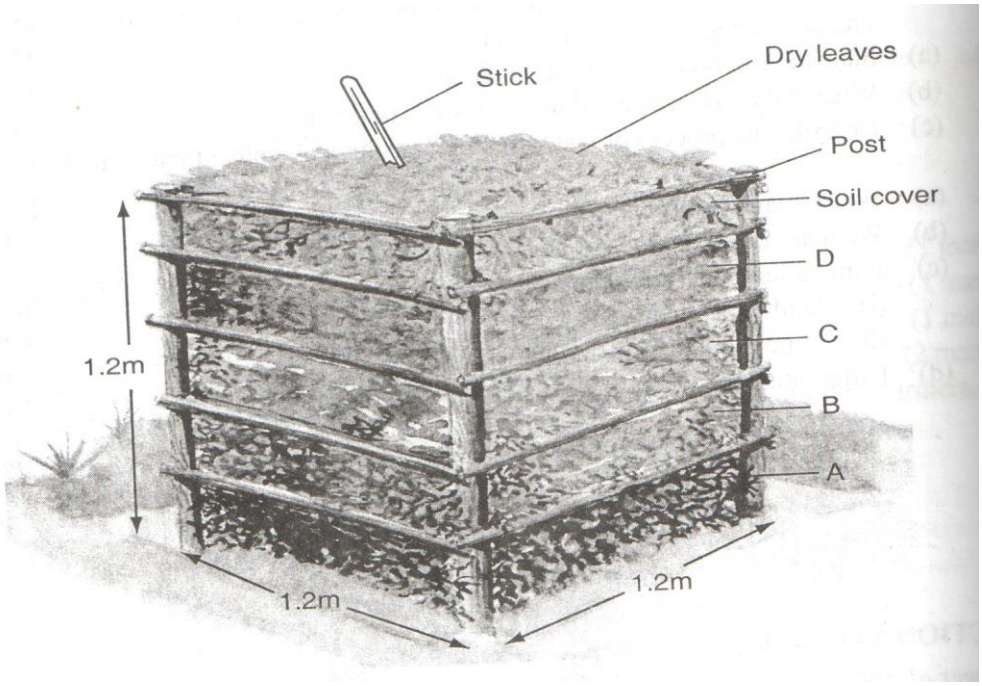
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26. The following is an illustration of a compost heap.



a. Label parts A, B, C and D **(2mks)**

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b. What is the use of each of the part labeled? **(1mk)**

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c. Give two reasons why is compost manure not commonly used in the farms. **(1mk)**

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FORM 1 ENDTERM 3 EXAMS

(SERIES 1)

BUSINESS STUDIES

TIME: 2 HOURS

NAME…… ADM NO……

SIGN…… DATE;……

QUESTIONS

1. State four characteristics of basic human wants **(4mks)**

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2. Commerce is the study of trade and aids to trade highlight four aids to trade. **(4mks)**

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3. The following are factors that influence a business tick appropriately**.** **(4mks)**

Factor	Internal environment	External environment
vi) Business technology		
vii) Financial		
viii) Demographics		
ix) Legal political		

4. Outline four factors that one should consider when selecting office equipment. **(4mks)**

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5. Outline four advantages that a business may get from division of labour. **(4mks)**

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6. Highlight four characteristics of capital as a factor of production. **(4mks)**

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7. Outline four ways of creating utilities. **(4mks)**

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8. As a business student, advise your parents on three things they can do to encourage your house girl to work harder**.** **(3mks)**

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9. Outline four shortcomings of direct production**.** **(4mks)**

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10. Outline four source of business ideas**.** **(4mks)**

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11. State four roles played by ethics in business**.** **(4mks)**

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12. Classify the following office staff as managerial, junior or subordinate staff**.** **(4mks)**

Staff	**Category**
Office Managers	
Drivers	
Company Secretary	
Copy Typist	

13. Highlight four trends in office**.** **(4mks)**

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14. Highlight **four** features of a good filing system. **(4 marks)**

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15. State four factors that influence entrepreneurial practices. **(4mks)**

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

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17. State three differences between open office layout and enclosed office layou**t.** **(3mks)**

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18. Outline four services offered by wholesalers to producers**.** **(4mks)**

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FORM 1 ENDTERM 3 EXAMS

(SERIES 1)

CHEMISTRY

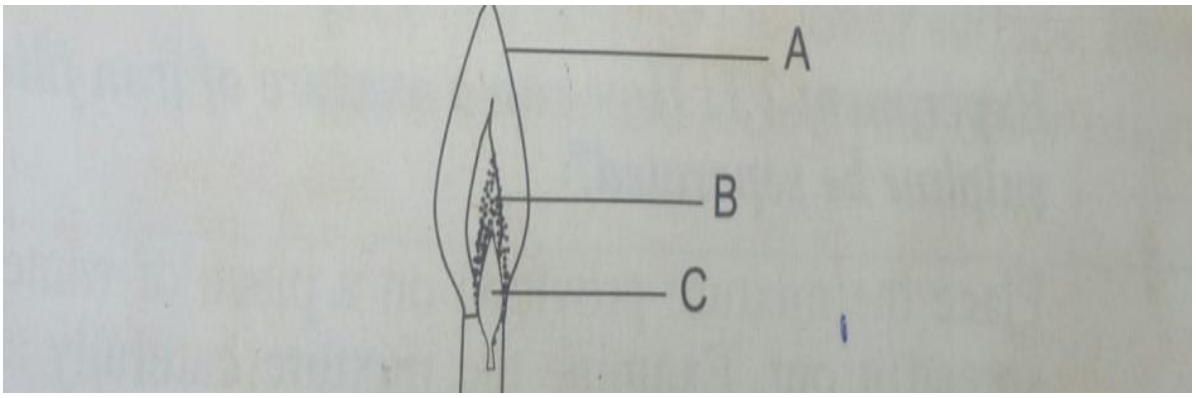
TIME: 2 HOURS

NAME…… ADM NO……

SIGN…… DATE;……

QUESTIONS

1. The following diagram represents a non-luminous flame of the Bunsen burner



(e) Name the parts of the flame labeled A,B andC **(3 marks)**

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b)Which of the parts in (a) above is the hottest and why**?** **(2marks)**

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c)Under what conditions does the Bunsen burner produce the flame drawn above **(1mark)**

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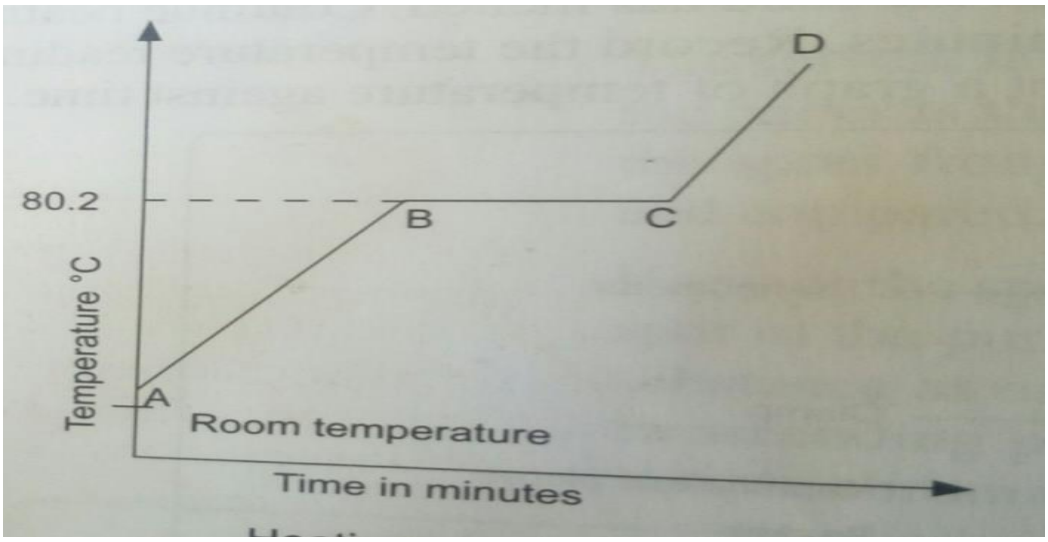
2. Complete the following word equations. **(3marks)**

i)Magnesium Hydrogen Carbonate+ dilute Nitric acid ⟶

ii) Carbon + Oxygen ⟶

iii) Zinc oxide + dilute Sulphuric acid ⟶

3. The curve below is a heating curve of naphthalene. Use it to the questions that follow.



a) Explain what happens in the following regions. **(6 mks)**

i. AB

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ii. BC

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iii. CD

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b) Give the effect of impurities on both melting and boiling points of a pure substance. **(2mrks)**

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4.a) Give any two examples of mineral acids **(2marks**

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(f) Give two effects of acids on substances. **(2marks)**

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c. Acids and bases are of importance in our daily life. State 3 uses of bases **(3 marks)**

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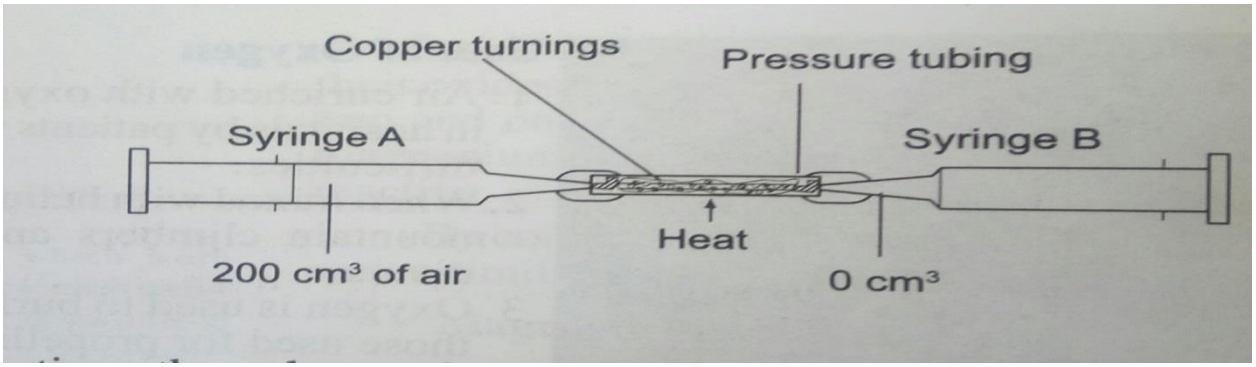
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5. a) Air is a mixture of gases. Give the various components of air. **(2marks)**

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b. The apparatus below were used to determine the volume of oxygen in air. About 200 cubic centimeters of air were passed repeatedly from syringe A to syringe B over heated copper turnings are shown in the diagram below. After some time, the volume of air in syringe A was 160 cubic centimeters and in syringe B 0 cubic centimetres.



c. Calculate the percentage of oxygen in the initial sample of air**.** **(3marks)**

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d. Give one possible source of error in the experiment. **(1mark)**

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e) Write a word equation for the experiment **(1mark)**

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6.a. Define the following terms **(2marks)**

i. Rust

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ii Saturated solution

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b. Give two conditions necessary for rusting to occur**.** **(2marks)**

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c. State two ways of preventing rusting to occur. **(2marks)**

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d. Cars in Mombasa rust faster than those in Nyeri .Explain **(2mrks)**

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7.) Classify each of the following change as either temporary or permanent. **(3marks)**

a. Striking a match to burn.

b. Burning a piece of paper.

c. Zinc oxide $\overset{Heat}{\underset{Cool}{\rightleftharpoons}}$ Zinc oxide

(White) (Yellow)

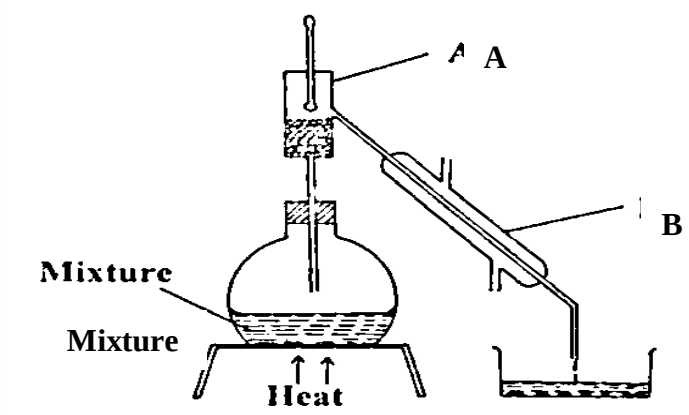
8.) Identify the elements present in the following compounds.

(a) Calcium oxide(1mark)

(b) Magnesium nitrate ($1^{1}/_{2}$ marks)

(c) LeadSulphate($1^{1}/_{2}$ marks)

9.) The diagram below shows a set-up of apparatus used to separate miscible liquids.



4. Name the parts labelled A and B. **(2marks)**

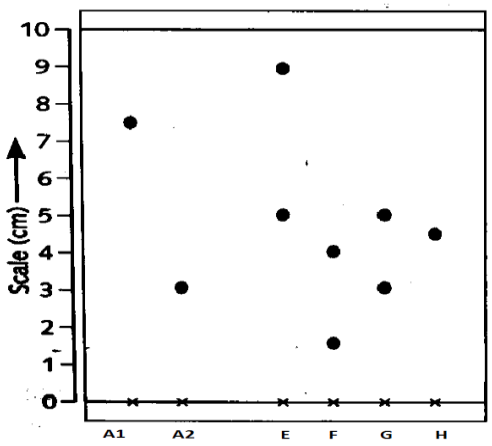
A

B

b) State the function of the part labeled A . **(1mark)**

c) State the property of the mixture that makes it suitable to be separated by the method above**.** **(1 mark)**

10. Samples of urine from three participants F, G and H at an international sports meeting were spotted onto a chromatography paper alongside two illegal drugs A1 and A2. A chromatograph was run using Ethanol. The figure below shows the chromatograph.



9. Identify the athlete who used an illegal drug **(1mk)**

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10. Which drug is soluble in Ethanol **(1 mk)**

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11. Which two properties of the component of the mixture facilitate separation? **(2 marks)**

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12. (c)Normally line A is drawn using a pencil and not ink. Explain why the pencil is preferred to ink**.(2marks)**

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11.a) Describe how coconut oil can be obtained from coconut in the laboratory**.** **(3 marks)**

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b) State one practical application of the process in a) above **(1mk)**

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12. Study the table below which shows the pH values of solutions **A**, **B**, **C**, **D** and **E**.

Use it to answer the questions that follow.

Solution	A	B	C	D	E
pH	13.0	7.0	9.0	6.5	2.0

i) Which solution is the most acidic? **(1 mark)**

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(ii) Which solution is a neutral? **(1 mark)**

……

(iii)Identify the solution that is most likely to be:

a. Rain water

b. Antacids tablet

c. Sodium hydroxide (3 marks)

13. State any two differences between luminous and non-luminous flames **(2 marks)**

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14. State three uses of Oxygen ga**s** **(3marks)**

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FORM 1 ENDTERM 3 EXAMS

(SERIES 1)

CHRISTIAN RELIGIOUS EDUCATION

TIME: 2 HOURS

NAME…… ADM NO……

SIGN…… DATE;……

QUESTIONS

1. Explain how the teaching of CRE promotes National Unity? **(6mks)**

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2. Explain why the Bible is referred to as a library of books. **(8mks)**

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3. Identify the promises God gave to Abraham. **(7mks)**

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4. Describe the covenant between God and Abraham (Genesis 1:1-19) **(8mks)**

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5. Explain the differences between the Jewish and African practices of circumcision. **(10mks)**

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6. How did God manifest Himself during the making of the Sinai Covenant? **(5mks)**

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7. Explain how God prepared Moses to become a future leader for his people. **(6mks)**

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8. Explain the reasons for Kingship in Israel. **(8mks)**

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9. Outline the duties of Judges in Israel. **(5mks)**

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10. State King David's achievements in Israel. **(8mks)**

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11. Name types of gods in the Canaanite religion. **(6mks)**

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12. Give the characteristics of local Cannanites religion. **(8mks)**

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13. Outline six actions of jeroboam that promoted the spread of idolatry in northern kingdom **(6mks)**

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14. Give the responsibilities of elders in A.T.S. **(6mks)**

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15. Give ways through which Christians can fight corruption in the society **(5mks)**

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FORM 1 ENDTERM 3 EXAMS

(SERIES 1)

KISWAHILI

TIME: 2 HOURS

NAME…… ADM NO……

SIGN…… DATE;……

SEHEMU YA KWANZA

Mwandikie mwalimu mkuu barua ukimweleza kilichokufanya kutofungua shule mapema mwanzoni mwa muhula wa kwanza.

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SEHEMU YA A: UFAHAMU

Soma taarifa ifuatayo kisha ujibu maswali yanayofuatia.

Sagamba aliikodolea macho saa ya ukutani. Saa kumi na moja kasoro dakika tano. Hapo alianza kuyarudisha mapazia ya dirisha la ofisi. Alipanga ya kazi na kuanza kutoka. Mara rununu ikatoa mlio. Kisha ikazima. Aliitazama majalada na kuona aliyiempigia. Alitabasamu na kuirudisha rununu mfukoni.

Zilizala ilikuwa baa maarufu sana mjini. Sagamba na wenzake waliitwa 'wanachama wa kudumu' kwa uzoefu wao wa kwenda hapo. Mara simu lilia tena. Sagamba aliichukua na kuitazama kwa muda. Alisonya kwa hasira kabla kuisogeza sikioni. "Halo! Tafadhali rudi nyumbani mapema, mtoto hasikii vizuri," sauti hiyo ilisema. Alikuwa mkewe. Sagamba aliizima simu kabisa huku akisema, "Sitaki kusumbuliwa. Yaani mtoto anakuwa mgonjwa mwisho wa mwezi ambapo nimepata donge langu nono?" Sagamba alikuwa amepata mkopo wa laki mbili kutoka kwa chama cha akiba na mikopo kwao kazini. Mifukoni alifutika vitita vya noti za elfu elfu. Ndani ya baa alizingrwa mithili ya nyuki wanapozuru ua lenye mbelewele. Huko nyumbani mkewe alijaribu kumpigia simu mumewe asimpate. Simu ilikuwa imezimwa. Mtoto alizidiwa maradhi na kuwa hoi. Mama hakusubiri, kwani uchungu wa mwana aujuaye mzazi. Alimfunga mbeleko mwanawe na kupiga milundi hadi kwa jirani. Jirani alipomwona mtoto amekodoa macho na punmzi kumpapa alijua maji yamezidi unga. Aliwasha gari lake mara moja na kufululiza hadi hospitali ya mkoa mjini. Mwna alipokelewa upesi upesi na kuanza kupewa matibabu. Ilikuwa mnamo saa saba usiku jirani alipoomba kurudi nyumbani.

Kule Zilizala mambo yalimwendea sanjae Sagamba. Alilewa akalewalewa. Pombe ilimkolea na kusaha kuwa 'utamu wa kidonda umemuua nzi.' Alipoletewa bili ya kulipa vinywaji, alitumbukiza mikono mfukoni kutoa pesa. Apate nini! Hela zilikuwa zimefagiliwa zote! Alipiga ukwenzi kama mwehu. Macho yaliingia kiwi na akabaki kuchanganyikiwa. Mara alimshika mashati bwana mmoja kifefe aliyeketi karibu naye na kumwambia amrudishie pesa zake. Yule bwna hakuwa na nafasi ya kukaribisha matusi yoyote. Vurumai ikaanza kupikika. Joto likakolea na kuiva hadi vita vikazuka. Sagamba alipigwa akapigika na kutupwa nje ya baa. "Hajalipa hela ya vinywaji!" Wahudumu walilalamika. Ulevi uliomjaa kichwani haukuruhusu miguu yake kuchana mbuga. Alianguka katikati ya barabara ya lami, nusura gari dogo limgonge. Alikuwa amechubuka usoni na magotini. Leo pombe imemweza Sagamba. Kwa kweli, 'maji huua mwogeleaji hodari'. Yule mwenye gari alipiga breki ghafla. Mara gari la polisi waliokuwa zamu likafika.

"Nitajitolea kumbeba tumpelekek hospitali, alisema Yule mwenye gari ndogo, bila kutambua kuwa ni jirani yake". Polisi waliliaandama gari lhilo la msmaria mwema hadi hospitalini. Huko hospitali, mama mtoto alipoona mwanawe amepata lepe la usingizi, naye alijinyoosha kwenye kitanda kilichokuwa hakina mgonjwa karibu na cha mwanawe. Ghafla alishtuka alipoamshwa na mwuuguzi, "Tafadhali tunakuomba utupishe, tunataka kumlaza mgonjwa mwingine hapa". Mama alijizoazoa kitandani kumpisha mgonjwa. Hakujishughulisha na mgonjwa huyo. Alisimama na kutafuta mahali pengine pa kuzipanga mbavu zake.

Usiku ulipita haraka. Majogoo yalisikika kwa mbali. Sagamba alipata fahamu. Alipofungua macho alijikuta yumo hospitalini. Bado akiwa na chelewa, alijipapasa na kuipata rununu yake

mfukoni mwa koti. Aliiwasha na kusoma arafa: **BASI UJUE SHAZI AMELAZWA HOSPITALI YA MKOA WADI YA WATOTO KITANDA 8. MKEO.**

Arafa hiyo ilitosha kumtia kiwewe. Alihisi maumivi mwilini, kupoteza pesa zake na sasa, mwana hospitalini. Kwa kweli "hakuna msiba usio na mwenziwe". Sagamba alitembea dede kwa maumivu hadi wadi ya watoto.

Mama aliyekuwa bado hajaamka aligutushwa na sauti aliyoitambua kwa mbali "Shazi mwanangu, kwani umelazwa hapa hospitalini?" Mama alikiendea hima kitanda alicholazwa mwanawe. Alimkuta mumewe aliyekuwa amefungwa bendeji kichwani na kitata mkonono. Mama, baba na mwana walitazamana. Mara jirani aliyerauka kumletea Shazi staftahi alifika. Naye aliduwaa na kuduwazika. Baada ya juma, bili ya hospitali ililetwa; ya mtoto elfu kumi na ya Sagamba elfu tano. Sagamba alikumbuka mawaidha ya mkewe ya kumtaka aache ulevi. Kwa kweli, "akuambiaye usikombe mboga ataka ushibe".

MASWALI:

1. Sagamba alikuwa mtu wa tabia gani? **(alama 2)**

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……

2. Eleza masaibu yaliyompata Sagamba. **(alama 2)**

……

……

……

3. Ni mambo gani yanayoonyesha kuwa Sagamba hakuijali familia yake? **(alama 3)**

……

……

……

……

4. Eleza matumizi ya lugha yafuatayo: **(alama 3)**

(a) alisonya –

(b) kupiga milundi –

(c) Maji yamezidi unga –

SEHEMU YA B: MATUMIZI YA LUGHA: (ALAMA 30)

(a) Andika sifa za kutambulisha sauti zifuatazo: **(alama 2)**

/d/

/th/

(b) Taja vigezo vyovyote vitatu vya kuainisha konsonanti za Kiswahili. **(alama 3)**

……

……

……

(c) Tofautisha kati ya Kiimbo na Shadda **(alama 2)**

……

……

……

(d) Eleza maana ya kiambishi. **(alama 2)**

……

……

(f) Ainisha maneno katika utungo huu **(alama 3)**

Kucheza kule kumenichokesha

……

……

……

(g) Tofautisha kati ya kivumishi na kiwakilishi. **(alama 1)**

……

……

(h) Ainisha **(alama 3)**

Aliyemlimisha

……

……

……

(i) Nomino hizi zimo katika ngeli gani? **(alama 4)**

(i) Uovu –

(ii) Msemo –

(iii) Njia –

(iv) Uso –

(j) Eleza matumizi ya mshazari **(alama 3)**

……

……

……

……

(k) Eleza maana mbili za neno "panga" **(alama 2)**

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……

……

(m) Onyesha hali na wakati katika sentensi hii **(alama 2)**

Nimempata alipoketi

……

……

……

……

(n) Andika sentensi hii katika hali ya mazoea. **(alama 2)**

Wakulima wanalima mashamba yao.

……

……

……

(o) Eleza dhana ya kirai. **(alama 1)**

……

……

(p) Toa maana ya msemo huu. **(alama 1)**

Kufanya kimasomaso

……

……

(q) Andika sentensi kwka wingi. **(alama 1)**

Ulimi utakutia matatani

……

SEHEMU YA C: FASIHI SIMULIZI (ALAMA 10)

(a) Eleza maana ya fasihi. **(alama 1)**

……

……

(b) Taja sifa zozote tatu za mtambaji. **(alama 3)**

(i)

(ii)

(iii)

(c) Fafanua tofauti kati ya fasihi simulizi na fasihi andishi. **(alama 6)**

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FORM 1 ENDTERM 3 EXAMS

(SERIES 1)

MATHEMATICS

TIME: 2 HOURS

NAME…… ADM NO……

SIGN…… DATE;……

INSTRUCTIONS TO CANDIDATES

1.Write your name and index number in the spaces provided at the top of this page.

2.This paper consists of two sections: ***Section l and Section II***

3.Answer all questions in ***section l****and 3 questions in* ***Section II.***

4. Show all the steps in your calculations in the spaces provided, 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.Non- programmable silent electronic calculators ***and KNEC*** *Mathematical tables may be used.*

SECTION A: 40MKS

1. Evaluate $\frac{-4 \text{ of } (-4 + -15 \div 5) + -3 - 4 \div 2)}{84 \div -7 + 3 - - 5}$ **(3mks)**

2) Express the following numbers in terms of their prime factors. **(2mks)**

196

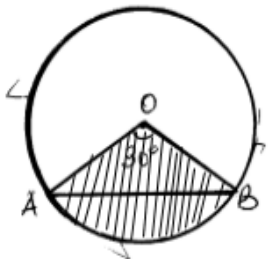
3)Three tanks are capable of holding 36, 84 and 90 litres of milk. Determine the capacity of the greatest vessel which can be used to fill each one of them an exact number of times. **(2 mk)**

4) The cost of 5 skirts and 3 blouses is sh. 1750. Mueni bought three of the skirts and one of the blouses for sh.850. Find the cost of each item. **(3 mks)**

2. Forty five men can construct a road 210m long in 60 days. What length would be constructed by 72 men in 50 day assuming that all work at the same rate? **(3mks)**

3. Using tables to find the Square root of 0.146 **(2mks)**

4. The figure below shows a circle centre O. ChordAB subtends 30^0 at the centre. If the area of the shaded section is $5.25cm^2$, find the radius of the circle $\left(Take\ \pi = \frac{22}{7}\right)$ **(3mks)**



5. Juma, Ali and Hassan share the profit of their business in the ratios 3:7: 9 respectively. If Juma receives Ksh 60000. How much profit did the business yield? **(2mks)**

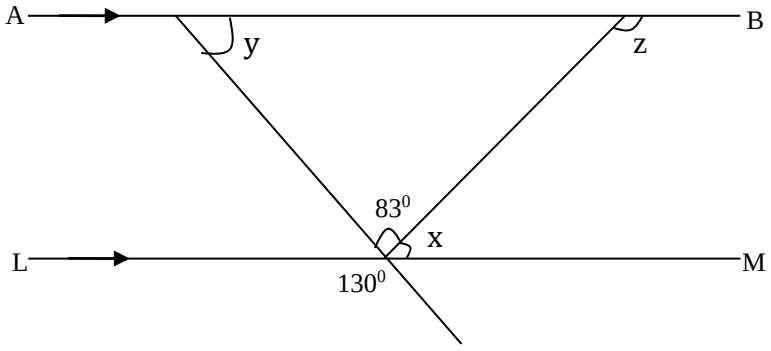
6. The exterior angle of a regular polygon is an eighth of the interior angle. How many sides does the regular polygon have? **(3 marks)**

7. Express each of the following as a fraction; **(2 mks)**

$3.\dot{7}\dot{2}$

8. Find the ratio of x: z if x: y=9:10 and y:z=5:3. **(3mks)**

9. In the figure below, lines AB and LM are parallel.



(g) Find the values of the angles marked x, and z. **(2 mks)**

10. Solve for y in the following equation**;** **(3mks)**

$$\frac{y+3}{3}+\frac{y-3}{4}=\frac{1}{12}$$

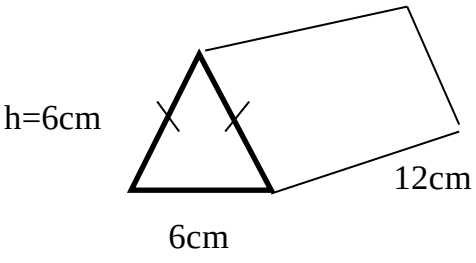
11. A Kenyan company received US Dollars 100,000.The money was converted into Kenya shillings in a bank which buys and sells foreign currencies as follows:

Buying	**Selling**	
(in Kenya shillings)	(in Kenya shillings)	
1 US Dollar	77.24	77.44
1 Sterling Pound	121.93	122.27

Calculate the amount of money, in Kenya shillings, the company received. **(3mks)**

12. The diagram below show a triangular prism.

Find the surface area of the prism. 5mks



SECTION II*(Answer ALLquestions in this section)*

13. The table below shows a time table for a public surface vehicle operating between two towns A and D via town B and C.

town	Arrival time	Departure time
A		8:20am
B	10:40pm	11:00am
C	2:30 pm	2:50pm
D	4:pm	

At what time in 24hour clock system:

a) The vehicle leaves town A. **2mks**

b) The vehicle arrives in town D**.** **2mks**

c) How long does it take to travel from town A to D. **4mks**

d) If the distance between the two towns A and D is 900km, find the average speed of the vehicle. **2mks**

14. (a) The table below shows measurements, in metres, made by a surveyor in his field book. Using a scale of 1cm to represent 20m construct a diagram to represent this information. (5mks)

	G	
F50	280	
	250	
	200	E40
	150	D100
C120	100	
	40	B50
	A	

(b) Calculate the area of the above piece of land in hectares. **(5mks)**

17) Use a ruler and a pair of compasses only in this question.

(a) Construct triangle ABC in which AB = 7 cm, BC = 8 cm and $\angle ABC = 60^0$**.** **(4mks)**

(h) Measure (i) side AC. **(1mk)**

(ii) $\angle$ ACB. **(1mk)**

(c) On the same diagram, drop a perpendicular from C to meet AB at D. Measure CD hence calculate the area of the triangle **(4mks)**

THE END

- ✓ **FOR SIMILAR ENDTERM 3 EAMINATIONS**
- ✓ **KCSE MOCKS**
- ✓ **KCSE PREDICTIONS**
- ✓ **EDUCATIONAL RESOURCES**
- ✓ **PRIMARY RESOURCES**

ETC

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