FORM 1 ENDTERM 3 EXAMS

ALL SUBJECTS

SERIES 2

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 2)

BUSINESS STUDIES

TIME: 2 HOURS

NAME…… ADM NO……

SIGN…… ……. DATE;……

QUESTIONS

1. State **four** disadvantages of division of labour. **(4 marks)**

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2. Outline four ways in which a good business structure is of benefit to a business organization..

(4 marks)

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3. Outline **four** difficulties faced in the satisfaction of human wants. **(4marks)**

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4. Apart from the use of computers in offices, outline other **four** current trends in office management. **(4marks)**

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5. Highlight four reasons for making choices between competing wants. **(4mks)**

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6. Identify weather the following factors form the external or internal environment(4mks)

Factors	External	Internal
a) Political climate		
b) Size of population		
) Goals and objectives		
d) Employees		

7. Mention four advantages of departmental filing system. **(4mks)**

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8. Highlight four barriers to entrepreneurial development. **(4mks)**

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9.Define the following terms as used in Business Studies. **(4 mks)**

1. Economics

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2. Entrepreneurship

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3. Opportunity cost

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4. Scale of preference

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10. Highlight <u>four</u> reasons why food is an important basic need. **(4 mks)**

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11. Highlight <u>four</u> ways in which entrepreneurs can observe ethics in the management of their business. **(4 mks)**

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12.<u>Highlight four</u> ways in which a legal-political environment can impact negatively on entrepreneurs. **(4 mks)**

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13. State four reasons why some traders prefer to operate supermarket business. **(4 mks)**

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14. State the term given to each of the following disciplines **(4 marks)**

1) Study of how man strives to satisfy his unlimited wants using the limited resources

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2) Study of the process of identifying a business opportunity and acquiring resources to start and operate a business

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3) Study of trade and aids to trade

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Refers to a systematic way of recording business activities which are used for decision making.

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15. Highlight four reasons for making choices between competing wants **(4 marks)**

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16. POA a serious entrepreneur has identified a business opportunity in one of the towns in Kenya and wants to borrow money from Faulu bank. State four factors he has to take into consideration before he borrows the money **(4 marks)**

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17. Classify the following resources as either renewable or non renewable wood, coal, soda ash, building stones, stove, wool, silk and iron. **(4 marks)**

Renewable	Non-renewable
i)	
ii)	
iii)	
iv)	

18. State four circumstances under which photocopying may be used to reproduce documents in a school **(4 marks)**

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FORM 1 ENDTERM 3 EXAMS

(SERIES 2)

ENGLISH

TIME: 2 HOURS

NAME…… ADM NO……

SIGN…… ……. DATE;……

Cloze Test, Oral Skills, Comprehension and Grammar

QUESTION 1: CLOZE TEST (10MARKS)

Fill in the blanks with most appropriate word.

What is good governance? This is a (**1**)……that people discuss very often. It refers to the responsible management (**2**)…….. the affairs of a village, town or country. Where there is good (**3**)…….. people live in harmony, ways of alleviating poverty are sought (**4**).....people assume ownership of **5**.....process of developing their communities.

Although the government is (**6**).....to create a conducive political and legal (**7**)..... for development, it cannot succeed if ordinary citizens do not co-operate and (**8**).....their role. Everyone craves for maintenance of the rule of (**9**).....but if we do not (**10**).....that very law, we will not know peace

QUESTION 2: ORAL SKILLS (5MARKS)

ii) Identify the silent letters in the words below (3mks)

4. Doubt……

5. Science……

6. Biscuit ……

iii) For each of the following words, write another word that is pronounced in the same way (2mks)

1. Air ……

2. Night ……...

QUESTION 3: COMPREHENSION (15MARKS)

Read the following passage and answer the questions that follow:-

SCHOOL BULLIES.

I still remember - my hands and my finger - tips still remember; what used to lie in store for us on our return to school from the holidays. The guava trees in the school yard would be in full leaf again, and the old leaves would be strewn around in scattered heaps. In places there were even more than just heaps of them: it would be a muddy sea of leaves.

"Get all that swept! The headmaster would tell us. "I want the whole place cleaned up, at once!"

"At once!" There was enough work there. Damned hard work, too to last us for over a week. Especially since the only tools with which we were provided were our hands, our fingers, our nails.

"Now see that it's done properly, and be quick about it, "the headmaster would say to the older pupils, "or you'll have to answer for it".

So at an order from the older boys, we would all line up like peasants about to reap or clean a field, and we would set to work like members of chain-gang. In the school yard itself, it wasn't too bad: the guava trees were fairly well spaced; but there was one part where the closely planted trees grew in a hopeless tangle of leaves and branches,

The sun could not penetrate here, and the acrid stench of decay linger in the undergrowth even at the height of the summer.

If the work was not going as quickly as the headmaster expected, the big boys instead of giving us a helping hand, used to find it simpler to whip us with branches pulled from the trees. Now guava wood is regrettably flexible; skillfully handled, the springly switched used to whistle piercingly, and fall like flails of fire on our backsides. Our flesh stung and smarted, while tears of anguish sprang from our eyes and splashed on the rotting leaves at out feet.

In order to avoid these blows, we used to bribe our tyrants with the succulent cakes of Indian Corn, the conscious made of meat or fish which we used to bring for our daily midday meal. And if we happened to have any money on us, the coins changed hands at once. If we did not do this, if we were afraid of going home with an empty stomach or an empty purse, the blows would be redoubles. They were administered with such furious generosity and with such diabolical gusto that even a deaf man would have gathered that we were being flogged not so much to spur us on to work, but rather to lash us into a state of submissiveness in which we would be only too glad to give up our food and money.

Occasionally, one of us, worn out by such calculated cruelty would have the courage to complain to the headmaster. He would of course be very angry, but the punishment he inflicted on the older boys was always negligible - nothing compared to what they had done to us. And the fact is that

however much we complained our situation did not improve in the slightest. Perhaps we should have let our parents know what was going on, but somehow we never dreamed of doing so; I don't know whether it was loyalty or pride that kept us silent, but I can see now that we were foolish to keep quiet, for such beatings were utterly foreign to our nature, and completely at variance with our passion for independence and equality.

QUESTIONS.

1. Why was the school yard in a very untidy condition? **(1mks)**

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2. How did the Headmaster make sure that the work was done properly. **(2mks)**

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3. Why was it pointless to complain to the Headmaster about the bullying. **(2mks)**

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1) How did the boys avoid blows from the bullies? **(2mks)**

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- Why didn't the younger boys complain to their parents about the bullying? **(2mks)**

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1. Who do you think was most to blame for the bullying? **(2mks)**

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(i) If you were one of the young boys, what would you have done? **(1mks)**

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Define the following words as used in the passage. **(3mks)**

a) Negligible: .....

b) Strewn**:**.....

- Splashed:.....

QUESTION 4: GRAMMAR (20MARKS)

a) Choose the correct form of the pronoun in each of the following sentences.

3mks

(i) Kinya and (**she, her**) work in a media house.

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(ii) I read the report he wrote to Murna and (**I, me**).

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(iii) She is more responsible than (**they, them**)

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b) **Fill in the blank spaces in the following sentences using either a, an or the where necessary**.

(5mks)

1. Miss Judith is …….. secondary school teacher

2. James was …… best swimmer in the world

3. She knows how to play …….. football

4. He wants to climb …… Ruwenzori mountains

5. ……. Rich are always the losers

c) Write the following sentences in their plural form. **(2mks)**

(i) Peter had quite some luggage to carry.

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(ii) The hoof of the horse hurt the goose.

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d) Arrange the following words in the order you expect to find them in the dictionary.

(1mk)

Orbit, occupy, observe, ornament, obtain, oncology, optician.

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e) **Fill in the passage with appropriate prepositions** **(5mks)**

When I was a little girl, i used to look…….…… life as an easy thing. ……..…… the early 80's my days were filled ……..... lots of play, laughter and sleeping. As I grew ……..... an adult, life started taking a u-turn. Now, my days are full……...hardwork, worries and sleepless nights.

f) Punctuate the following sentences correctly. **(2mks)**

i. I don't know how to swim he explained

1. masiga says here is a game this morning.

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(g) Fill in the blank spaces with the correct form of adjectives in the bracket.

(i) John is the _____ of the three brothers . (old)

(ii) Which is the _____ fashion in the market? (late)

g) Fill in the blank spaces with one of the given words in brackets.

(2mks)

- Roy is the ……..member of this movement. (oldest / eldest)
- Most Kenyans were eager to hear the …… news from their president (latest / last)

FORM 1 ENDTERM 3 EXAMS

(SERIES 2)

CHRISTIAN RELIGIOUS EDUCATION

TIME: 2 HOURS

NAME…… ADM NO……

SIGN…… ……. DATE;……

Answer ALL the questions in the spaces provided.

1. (a) Identify six deuterocanonical books found in the catholic bible. **(6mks)**

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(b) Give six reasons why Christians use the bible in worship. **(6mks)**

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2. (a) Give reasons why the Israelites demanded for a king. **(6mks)**

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(b) State six importance of the Temple to the Israelites. **(6mks)**

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3. (a) With reference to Genesis 12:1-9, outline seven promises given to Abraham by God at the time of his call. **(7mks)**

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(b) List five attributes of God learnt from the ten plagues. **(5mks)**

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4. (a) Identify seven events that took place during the Passover night. **(7mks)**

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(b) Describe the first Biblical Creation account. (Genesis 1) **(6mks)**

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5. (a) What forms of corruption would Prophet Elijah condemn in Kenya today? **(4mks)**

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(b) Explain the African understanding of the hierarchy of beings. **(7mks)**

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6.(a) Identify five moral values taught to the youths during initiation to adulthood in Traditional African Society. **(5mks)**

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(b) Identify five groups of people who were referred to as specialists in traditional societies. **(5mks)**

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FORM 1 ENDTERM 3 EXAMS

(SERIES 2)

HISTORY

TIME: 2 HOURS

NAME…… ADM NO……

SIGN…… ……. DATE;……

QUESTIONS

1. Identify **five** sources of Kenyan history. **(4mks)**

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2. Name **four** sub-clams of the mijikenda. **(4mks)**

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3. State **two** natural factors which facilitated the coming of the early visitors to the Kenyan coast before 1500AD. **(2mks)**

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4. Name **one** Portuguese commander who led in the Portuguese expedition to the East African Coast. **(1mk)**

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5. Identify **three** peaceful method of conflict resolution in Kenya. **(3mks)**

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6. Describe the political organization of the Kamba during the pre-colonial period **(l0mks)**

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7. State five similarities in the social organization of the Agikuyu and Luo during the pre-colonial period **(5mks)**

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8. Explain six reasons that led to the decline of the Portuguese rule along the Kenyan Coast during the 17^{th} century. **(12mks)**

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9. Explain **six** factors that contributed to the development of trade between the Kenyan Coast and the outside world by 1500. **(12 mks)**

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10. S t a t e **s i x** benefits of fire to early man**.** **(6mks)**

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11. Highlight **seven** freedoms and rights of Kenyan citizens. **(7mks)**

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12. State **eight** factors that undermine national intergration**.** **(8mks)**

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FORM 1 ENDTERM 3 EXAMS

(SERIES 2)

MATHEMATICS

TIME: 2 HOURS

NAME…… ADM NO……

SIGN…… ……. DATE;……

NAME ……ADM……CLASS……

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

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

196

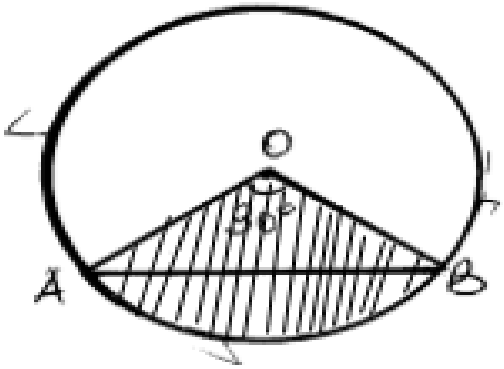
3) Three tanks are capable of holding 36, 84 and 90 litres of milk. Determine the capacity of the greatest vessel which can be used to fill each one of them an exact number of times. **(2 mk)**

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)**

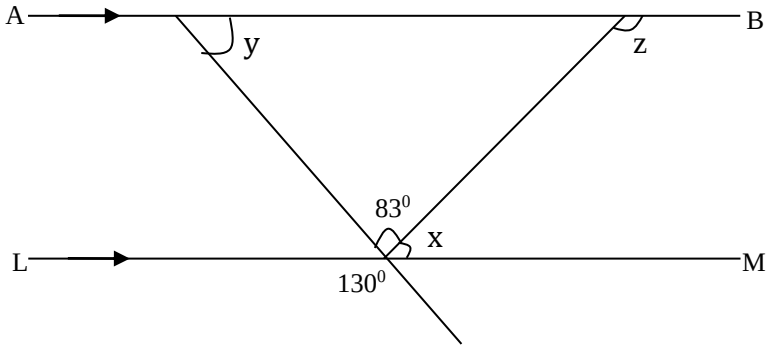
6. The exterior angle of a regular polygon is an eighth of the interior angle. How many sides does the regular polygon have? **(3 marks)**

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.



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

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

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

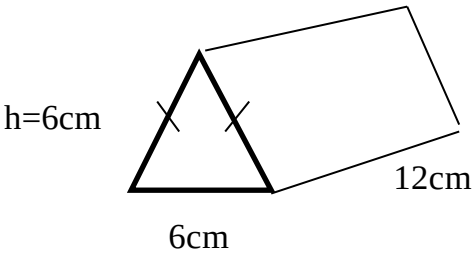
11. A Kenyan company received US Dollars 100,000.The money was converted into Kenya shillings in a bank which buys and sells foreign currencies as follows:

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)**

3. 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)**

FORM 1 ENDTERM 3 EXAMS

(SERIES 2)

GEOGRAPHY

TIME: 2 HOURS

NAME…… ADM NO……

SIGN…… ……. DATE;……

QUESTIONS

1) Name the branches of Geography **(3marks)**

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2) Explain the relationship between Geography and the following disciplines

a. Mathematics **(2marks)**

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b. History **(2marks)**

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3) Define the following terms.

a. Galaxy **(2marks)**

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b. Milky Way **(2marks)**

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4)

a. Name two planets without satellites. **(2marks)**

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b. Explain the origin of the earth according to the nebula cloud theory **(4marks)**

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5) State the reasons why the earth has life on it. **(3marks)**

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6) Explain three forces that contribute to the shape of the earth. **(6marks)**

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7) Calculate the following.

a. What is the longitude of station x when it is 08:00am while in Nairobi at longitude 37°E the time is 12.00 noon? **(2marks)**

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b. What is the time at point Y 30°W when the time at point Z is 20°E is 4:00pm? **(2marks)**

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8)

a. What is the International Date Line? **(2marks)**

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b. State the effects of international date line? **(2marks)**

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9) List the five main latitudes on the globe. **(5marks)**

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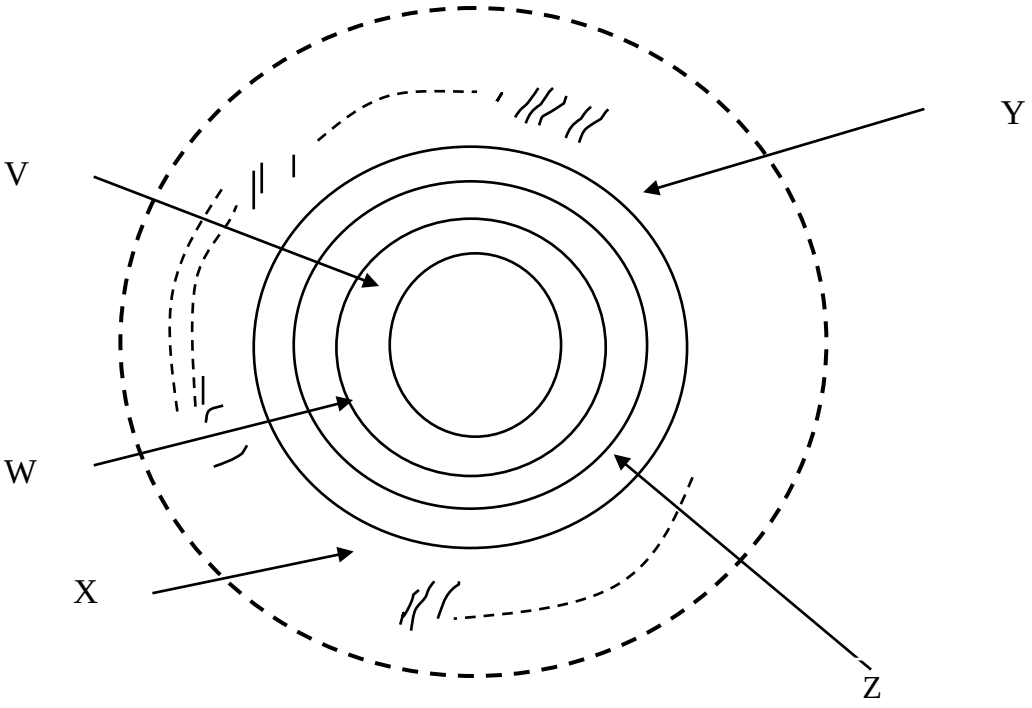
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10) The diagram below represents the structure of the earth. Use the diagram to answer questions that follows.



a. Label all parts of the above diagram. **(5marks)**

V

W

X

Y

Z

b. List the composition of the crust. **(2marks)**

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c. Name the other layer of discontinuity that make up the interior of the earth. **(1mark)**

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11)

a. Define weather **(2marks)**

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b. Identify five elements of weather **(5marks)**

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c. What considerations should be put into account while siting a weather station? **(4marks)**

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d. Give five characteristics of the Stevenson's screen **(5marks)**

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e. What are the elements of the weather measured from a Stevenson's screen? **(2marks)**

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12)

a. Describe the way a rain gauge works. **(4marks)**

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b. Why is it possible that the data recorded in a school weather station will not be accurate?

(3marks)

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13) Identify the ways in which clouds are classified. **(3marks)**

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14)

a. Using a well labeled diagram, describe the occurrence of relief rainfall **(6marks)**

b. Outline the characteristics of Inter-tropical convergence zone (ITCZ). **(4marks)**

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15)

a. Students from one of the schools in Kirinyaga county, carried out a field study in Kerugoya Market. What five preparations did they make apart from making a work schedule? **(5marks)**

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b. Why will it be necessary to make a work schedule before the study? **(3marks)**

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16) State three disadvantages of using interviewing method in the field study. **(3marks)**

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17) Study the statistical data below and answer the questions that follow

Month	**J**	F	M	A	M	J	J	A	S	O	N	D
ainfall in mm	39	40	67	163	240	72	64	68	79	103	96	67

a. Calculate the mean of the rainfall amounts. **(2marks)**

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b. The annual range of rainfall **(2marks)**

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FORM 1 ENDTERM 3 EXAMS

(SERIES 2)

BIOLOGY

TIME: 2 HOURS

NAME…… ADM NO……

SIGN…… ……. DATE;……

QUESTIONS

1. i) State **one** process that takes place during the light stage and **one** that takes place in the dark stage of photosynthesis. **(2mks)**

Light stage;

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Dark stage;

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ii) Name three products of the light stage of photosynthesis **(3mks)**

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c) Name **three** types of cells in the leaves where photosynthesis occurs **(3mks)**

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2. Name **one** example of the specialized cells in plants and one example in animals.

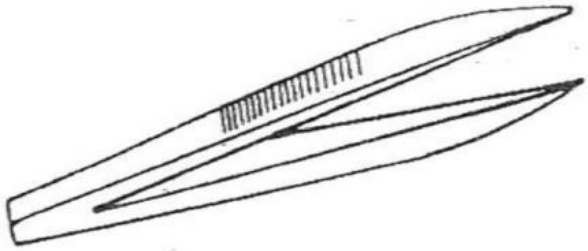
(**i)**Plants **(1mk)**

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(ii) Animals **(1mk)**

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3. Identify the following apparatus and state its functions.



i) Name…… **(1mk)**

ii) Function **(1mk)**

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4. A student measured the length of a mitochondrion on a photomicrograph whose magnification was X 40000 and found it to be 1mm. Calculate the actual size of the mitochondrion. **(3mks)**

5. State the type of solution that makes the plant cell. **(2mks)**

i)Flaccid……

ii) Turgid……

6. Name the carbohydrate stored in:

i) Cell wall…… **(1mk)**

ii) Mammalian liver…… **(1mk)**

7. Name the monosaccharides that make up the disaccharides below

a) Sucrose……**(1mk)**

b) Lactose……..**(1mk)**

c) Maltose……..**(1mk)**

8. (a) Name **three** characteristics of living organisms **(3mks)**

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(b) Apart from Plantae and Animalia, name **three** other kingdoms. **(3mks)**

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9. Draw a well labeled diagram show the external parts of a simple leaf **(6mks)**

10. Give two characteristics that distinguish scientific names from common names. **(2mks)**

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11. (a) What is cell specialization **(1mk)**

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(b) Name **three** types of tissues found in animals **(3mks)**

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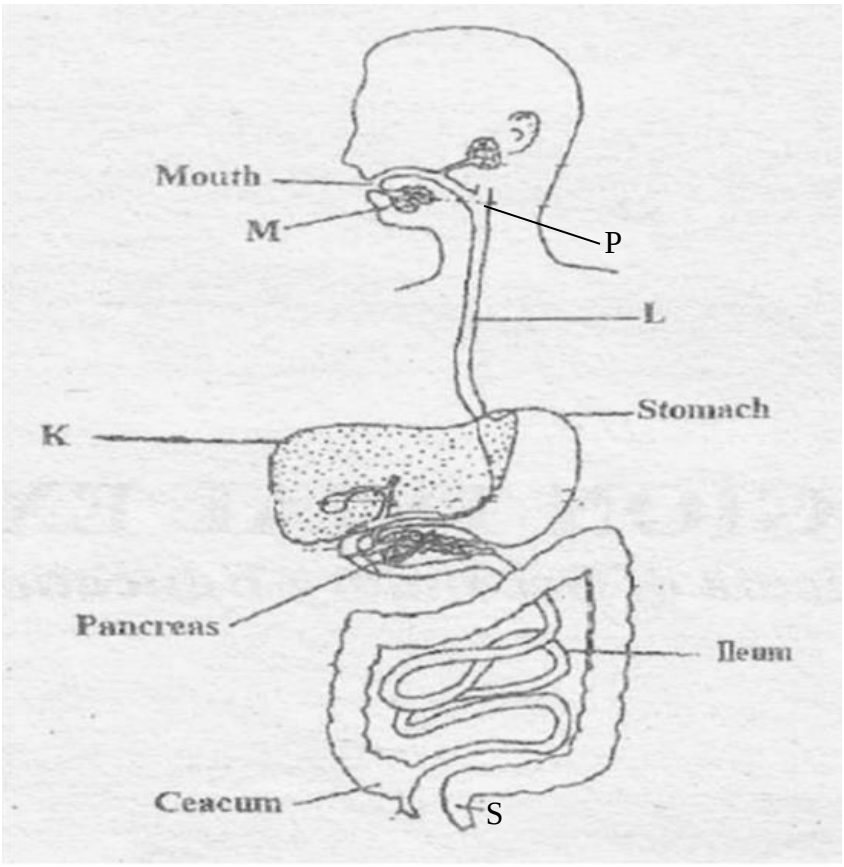
(c) Name **three** main types of lenses found on a light microscope **(3mks)**

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12. The diagram below represents the digestive system in man. Study the diagram and answer the questions that follow



(a) Label the part **K ,L, S** and salivary glands **M** and **P** **(5mks)**

K …… **L**……

S …… **M**……

P……

(b) Name **three** hormones which are secreted along the alimentary canal **(3mks)**

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13. List down **four** differences between a light microscope and an electron microscope **(4mks)**

Light Microscope	Electron Microscope

14. List down **four** factors that determines energy requirements in human being: **(4mks)**

……

……

……

……

15. Define the following branches of Biology. **(2mks)**

i) Genetics

……

……

ii) Entomology

……

……

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

a) Nucleolus **(1mk)**

……

……

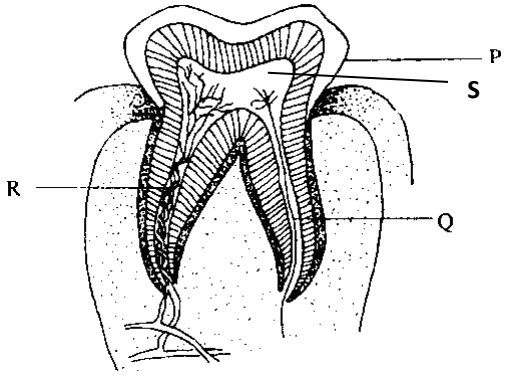
b) Golgi apparatus **(2mks)**

……

……

……

17. The diagram below represents a longitudinal section of a human tooth.



(a) Identify the type of tooth. **(1mk)**

……

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

……

……

(c) State one function of the tooth. **(1mk)**

……

……

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

……

……

e) Name the parts labeled P, Q, R, and S **(3mks)**

P……

Q……

R……

S……

FORM 1 ENDTERM 3 EXAMS

(SERIES 2)

AGRICULTURE

TIME: 2 HOURS

NAME…… ADM NO……

SIGN…… ……. DATE;……

NAME: ……..……ADM. NO: .....…CLASS:……..

QUESTIONS

1) Give four factors entailed in agriculture as an art. **(2mks)**

……

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……

2) Differentiate between olericulture and pomoculture. **(2mks)**

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3) Name four methods of farming. **(2mks)**

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……

4) State four ways by which agriculture contributes to national development**.** **(4mks)**

……

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5) State four factors that lead to low crop production. **(2mks)**

……

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……

6) Name four biotic factors influencing agricultural production negatively**.** **(2mks)**

……

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……

……

7) State four effects of high temperature on crop production. **(4mks)**

……

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……

……

8) Name three forms in which soil water exists. **(1 ½ mks)**

……

……

……

9) List four physical weathering agents in the soil formation process. **(2mks)**

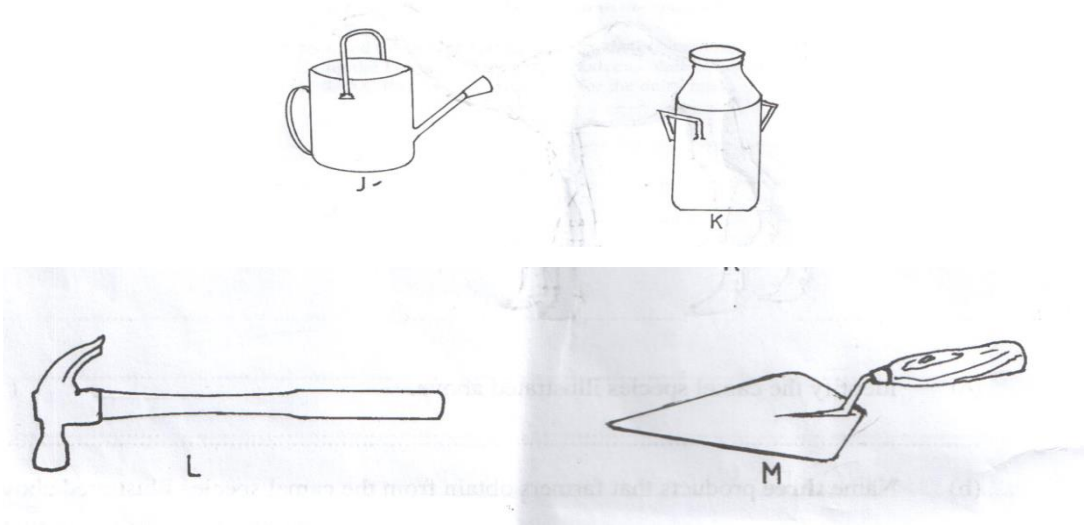
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10) The diagram below represents farm tools and equipments. Study them and answer the questions that follow.



18) Identify the tool / equipment J, K and M. **(1 ½ mks)**

J –

K –

M –

19) State one use for each of the tool/equipment labeled K and L. **(2mks)**

K

L

20) Give two maintenance practices for the equipment labeled K. **(2mks)**

……

……

……

11) State four maintenance practices of a jack plane. **(2mks)**

……

……

……

……

12) Name four complementary tools and equipments. **(2mks)**

……

……

……

……

13) State the correct use of each of the following tools. (2mks)

b) Tin snip

c) Cold chisel

14) State four reasons for proper care and maintenance of farm tools and equipments. **(2mks)**

……

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……

……

15) State four factors that influence the number of secondary cultivation done. **(2mks)**

……

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……

16) State four reasons for ridging. **(2mks)**

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……

17) State four practices that encourage minimum tillage. **(2mks)**

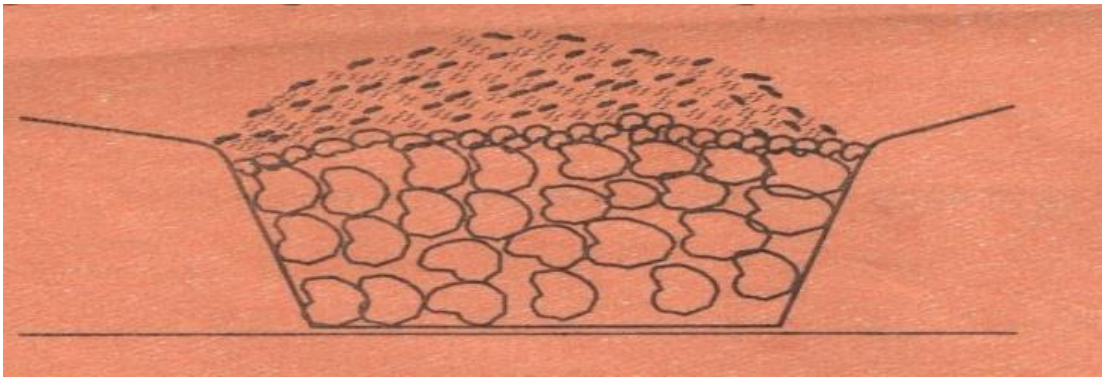
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18) Below is a diagram showing a method of drainage. Use it to answer questions that follow.



a. Identify the method. **(½ mks)**

b. Other than the above method name three other methods used in drainage. **(1 ½ mks)**

……

……

……

……

c. Outline four reasons for draining farm land. **(2mks)**

……

……

……

……

19) Name three non-chemical methods of water treatment. **(1 ½ mks)**

……

……

……

20) State four advantages of trickle irrigation. **(2mks)**

……

……

……

……

21) State three types of pipes used in conveying water on the farm. **(1 ½ mks)**

……

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……

……

22) Give four factors considered when selecting site for compost manure preparation. **(2mks)**

……

……

……

……

23) Give four indicators of well-decomposed manure. **(2mks)**

……

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……

……

24) Name two methods that are used in preparing compost manure. **(1mk)**

……

……

b. Give four reasons for limited use of organic manures to small scale crop production. **(2mks)**

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……

……

25) State four importances of livestock. **(2mks)**

……

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……

26) Name a sheep breed which is resistant to foot rot disease. **(½ mk)**

……

……

b. Mention any two examples of meat goats in Kenya. **(1mk)**

c. Give the terms used to describe the following livestock of different age, sex, etc

i. Mature male pig **(½ mk)**

ii. Sterilized birds **(½ mk)**

iii. Mature female goat **(½ mk)**

iv. Young one of a sheep **(½ mk)**

27) Name three dual purpose breeds of cattle. **(1 ½ mks)**

……

……

……

b. Name the two species of camel. **(1mk)**

……

……

28) State five uses of farm records. **(5mks)**

……

……

……

……

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FORM 1 ENDTERM 3 EXAMS

(SERIES 2)

CHEMISTRY

TIME: 1 ½ HOURS

NAME…… ADM NO……

SIGN…… ……. DATE;……

Answer all the questions in the spaces provided.

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

……

……

2. Give three advantages of studying Chemistry. **(3 mks)**

……

……

……

3. Give the functions of the following laboratory apparatus. **(5 mks)**

(i) Crucible –

(ii) Desicator –

(iii) Dropping funnel –

(iv) Thistle funnel –

(v) Tongs -

4. Define the following terms: **(4 mks)**

(i) Drug –

……

……

(ii) Drug abuse –

……

……

(iii) Prescription –

……

……

(iv) Indicator –

……

……

5. Give the differences between luminous flame and non-luminous flame. **(5 mks)**

Luminous	**Non-luminous**
)	
i)	
ii)	
v)	
)	

6. (a) After use, a non-luminous flame should be put off or adjusted to a luminous flame. Explain. **(2 mks)**

……

……

(b) State any 6 safety rules in the laboratory. **(6 mks)**

……

……

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……

……

7. Name three substances that undergo sublimation. **(3 mks)**

……

……

……

8. Give the methods that can be used to separate the following mixtures:- **(3 mks)**

(i) Iron filings and sulphur.

(ii) Sodium chloride and aluminium chloride.

(iii) Common salt and water

9. (a) What is fractional distillation? **(1 mk)**

……

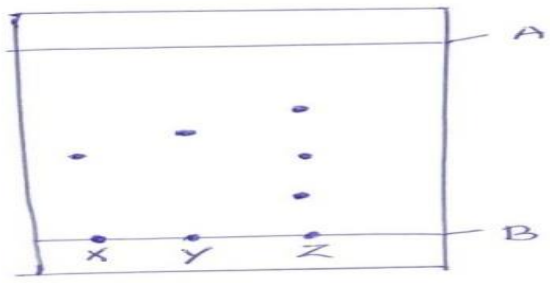
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(b) Give two applications of fractional distillation. **(2 mks)**

……

……

10. The diagram below shows a chromatogram obtained when spots of pigments X, Y and a mixture of Z were placed on an absorbent material and allowed to dry. The paper was then dipped in a solvent and results obtained as shown below.



(a) Name A and B. **(2 mks)**

(b) Which pure pigment was a component of Z. **(1 mk)**

(c) What are the factors that determine the distance moved by the spots? **(2 mks)**

(d) Why is water not used as a solvent? **(1 mk)**

11. Give the names of the compounds formed by the following elements: **(3 mks)**

(a) Carbon and oxygen

(b) Sodium and sulphur.

(c) Sodium, carbon and oxygen.

12. Complete the following word equations:- **(4 mks)**

(a) Sodium carbonate + dilute sulphuric acid

(b) Sodium + water

(c) Sodium hydrogen carbonate + dilute hydrochloric acid

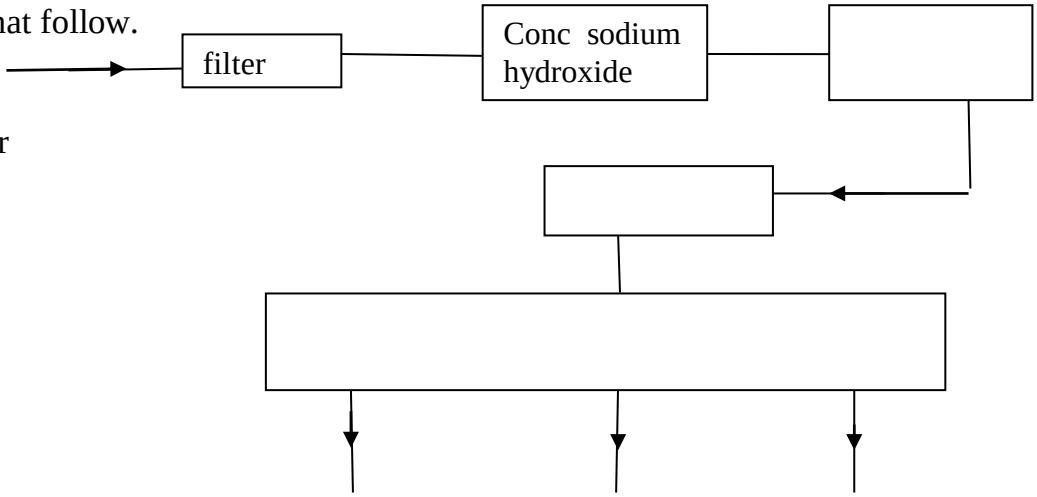
(d) Magnesium + Dilute hydrochloric acid

13. Give two differences between acids and bases. **(2 mks)**

Acids	**Bases**
)	
)	

14. Give two uses of bases. **(2 mks)**

15. The diagram below shows the fractional distillation of liquefied air. Study it and answer the questions that follow.



d) Name the substances removed in n cha **(1mk)**

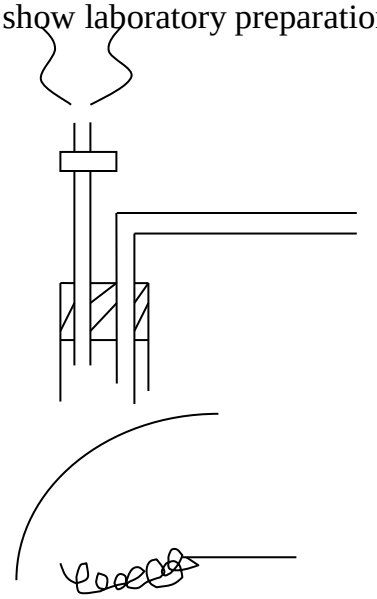
e) Name gases X, Y and Z. **(3mks)**

……

……

……

16. The diagram below show laboratory preparation of Oxygen gas.



a) Complete the gas to show how oxygen gas is collected. **(2mks)**

b) Why is oxygen gas collected as shown above. **(1mk)**

……

……

c) Write a word equation for the equation of the reaction occurring above. **(1mk)**

……

……

d) Give 3 uses of oxygen gas. **(3mks)**

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17. With the help of word equations identify the products of heating candle wax. **(3mks)**

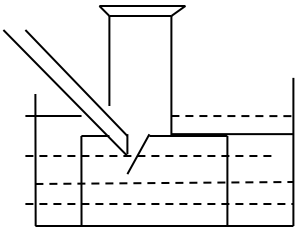
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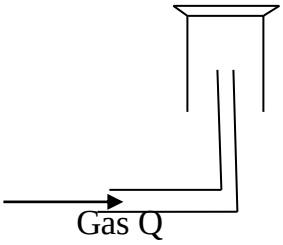
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18. Name the following methods of gas collection **(3mks)**

Gas P

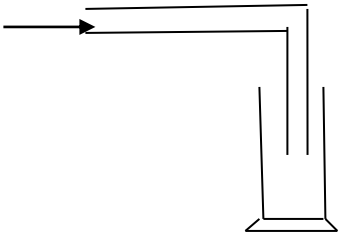


(i)



(ii)

Gas R



(iii)

19. Give 2 uses of hydrogen gas. **(2mks)**

……

……

FORM 1 ENDTERM 3 EXAMS

(SERIES 2)

KISWAHILI

TIME: 2 HOURS

NAME…… ADM NO……

SIGN…… ……. DATE;……

MAAGIZO

- Jibu maswali yote katika; Ufahamu, Ushairi, Matumizi ya lugha, fasihi simulizi na Isimujamii.
- Andika majibu yako katika nafasi uliyopewa

SEHEMU A: UFAHAMU (ALAMA 15)

Soma kifungu kifuatacho kisha ujibu maswali.

Jukwaani chini kulia kuna mlango wa kutokea. Linapofunguka pazia, Mama Tatu anaonekana akisuka ukili. Anaelekea mlango wa kutokea nje. Mlango wa kuingilia ndani upo upande wake wa kulia.

Mama: *(Anamtazama bila kupendezewa). Anasema huku anasuka ukili)* Hmm. Hiyo kanzu imezidi tena. Si unatembea uchi hivyo. Fupi, fupi, imekubana. Ndio uambiwe nini? Mzungu sana!

Tatu: Mama, watoto wote wanavaa hivi hivi siku hizi *(Ananung'unika).*

Mama: Hm. Haya sisi yetu macho tu. Maana husikizi tena. Umekuwa mkubwa, siwezi kukupiga. Basi haya fanya utakavyo tu. *(Kimya).*

Tatu: Maa. *(Kwa hofu kidogo).*

Mama: Sema tu, nakusikia.

Tatu: (Ahema) Nataka ruhusa kwenda sinema.

Mama: Sinema gani?

Tatu: Empress.

Mama: Basi si bado? Leo ndio kwanza Ijumaa, "Lady Show" Jumapili.

Tatu: Nataka kwenda leo usiku.

Mama: Toka lini ukaenda sinema usiku? Siku zote unakwenda Jumapili mchana. Mchana sikukatazi, lakini usiku hapana, hapana, hata kidogo. Kwanza pesa za kukupa wewe kila Jumapili ziko wapi? Baba yako hali yake unaijua. Kila siku hapa analalamika kodi zimekuwa nyingi. Nawe unamsikia. Kodi ya kichwa, kodi ya miguu, kodi ya uzee, kodi

ya mapato, kodi ya wafanyakazi, kodi, kodi, iiee! Nawe unataka sinema. Pesa zenyewe ziko wapi?

Tatu: Mie sitaki pesa mama, nipe ruhusa tu. Swai atanichukua sinema. *(Ma Tatu ameshtuka.Anamtazama Tatu. Anarudia kusuka ukili wake).*
(kimya)

Tatu: Ma, atakuja sasa hivi. Jee nende? (kimya).

Mama:(Polepole) Na huyu Swai ndio nani?

Tatu: Mtoto mmoja Swai Hamisi. Najuana naye.

Mama: Mwanamume?

Tatu: (Anaitika kwa kichwa).

Mama: Nae anakuchukua sinema – Na kwa nini yeye akulipie sinema? Anakujuaje? Baba yako? Au nani? *(Anaacha kusuka)*
(Kimya).

Mama: *(kwa sauti ya juu)* Nijibu! Wewe unafikiri, anapata taabu hii yote ya kukuchukua sinema kwa nini, eh? Wewe mwana mzima sasa huwezi kufikiria?

Tatu: Mama ingekuwa kuna jambo lolote baya tusingetaka ruhusa. Swai ni rafiki tu.

Mama: Hakuna urafiki baina ya mtoto wa kiume na mwanamwali hata kidogo. Uwongo. Usitudanganye.
Hivi unaniona mjinga sana, eh?

Tatu: Mama *(kwa sauti ya kubembeleza)* siku hizi watoto wote wanakwenda na marafiki wa kiume
kutembea, si kitu geni.

Mama: Sio uzungu! Ndio kuiga uzungu tena. Basi sisi si wazungu. Mzungu na Mwafrika mbalimbali. Mila zetu mbalimbali. Wao hawana haya, anaweza kwenda na mume huyu na mume yule
isiwe kitu.

(Ebrahim Hussein, Michezo ya Kuigiza, Nbi: EAPH, 1980)

MASWALI

a) Pendekeza kichwa mwafaka kwa kifungu hiki. **(alama 1)**

……

……

b) Taja wahusika **<u>wawili</u>** wa kiume waliorejelewa katika kifungu hiki. **(alama 2)**

……

……

……

c) Taja sababu **<u>nn</u>**e zilizomfanya Mama amzuie Tatu kwenda sinema. **(alama 4)**

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d) Eleza tofauti kati ya mila za Wazungu na za Waafrika asilia kulingana na kifungu hiki. **(al 3)**

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e) Huku ukitolea mifano kutoka kwenye kifungu, onyesha tabia **<u>tatu</u>** za Tatu. (**alama 3)**

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f) Ina maana gani kusema “Haya sisi yetu macho tu”? **(alama 2)**

……

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……

<u>SEHEMU B: SARUFI NA MATUMIZI YA LUGHA (ALAMA 15)</u>

1. Toa mfano mmoja mmoja kwa kila aina ya konsonanti uliyopewa. **(alama 2)**

(i) Kipasuo: _____

(ii) Kitambaza:_____

2. (a) Taja vipashio vya lugha. **(alama 2)**

.....

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.....

(b) Rekebisha sentensi hii: Mwalimu ambaye aliyenifunza amekuja. **(alama 2)**

_____

3. Bainisha viambishi awali, mzizi na viambishi tamati katika maneno yafuatao: **(alama 3)**

	Viambishi awali	Mzizi	Viambishi tamati
Atakutengenezea			
Wasaidieni			

4 Andika sentensi zifuatazo katika ukubwa.

(i) Wanawake hao waliuza mbuzi wao wote. **(alama 1)**

_____

(ii) Kigari chake kiliharibikia katika kibonde chenye kijito. **(alama 2)**

_____

5 Tunga sentensi kuonyesha tofauti ya <u>ki maana</u> kati ya maneno haya. **(alama 2)**

(a) Vua:_____

(b) Fua:_____

6 Utatafuta maneno gani kwenye kamusi, ukitaka kujua maana za maneno yafuatayo. **(alama 1)**

(a) Kucheza: _____

i. Usinipige:_____

SEHEMU C: USHAIRI (ALAMA 10)

Wapenda mtu kwa kitu

Shairi nakuleteya, tafadhali mwana twaa
Hikwita hunikimbiya, na kunitiya tama
Kumbe mebadili niya, hata washenzi watwaa
Una mahaba tamaa, wapenda mtu kwa kitu.

Nilidhani u libasi, njema ya mtu kuvaa
Hawa sina wasiwasi, popote ninapokaa
Kumbe u mtu rakhisi, atakaye hukutwaa
Una mahaba tama, wapenda mtu kwa kitu.

Usinionye mija, miuja haitafaa
Kwamba huna nami haja, ukinambia si baa
Mtu hupenda kimoja, sende nami kwa hadaa
Una mahaba tama, wapenda mtu kwa kitu.

Umejifunza wekevu, kutaka kunihadaa
Na huno wako uovu, ni bure hautafaa
Mimi ni wana mtuvu, sitendwi hataataa
Una mahaba tama, wapenda mtu kwa kitu.

Kunena mangi nataka, lakini wasaa
Na hapa tulipofika, ni kheri hakuambaa
Maana u mtu nyoka, huna ahadi u baa
Una mahaba tama, wapenda mtu kwa kitu.

Tamati sineni sana, muhibu toa tamaa
Ulotenda nishaona, wala hutanihadaa
Sasa kheri kuatana, kulla mtu akaa
Una mahaba tama, wapenda mtu kwa kitu.
(Kutoka, Malenga wa Mvita, uk. 163)

Maswali

a) Shairi la mishororo minne katika kila ubeti huitwa? **(alama 1)**

_____

b) Tambua vina katika ubeti wa pili. **(alama 2)**

_____

_____

c) Eleza maana ya ‘Una mahaba tama, wapenda mtu kwa kitu,’ **(alama 2)**

_____

_____

d) Taja mambo **matatu** ambayo msemaji analalamikia katika shairi? **(alama 3)**

_____

_____

_____

e) Maneno yafuatayo yameendelezwa kishairi. Yaandike kwa njia sanifu: **(alama 2)**

(a) hikwita: _____

(b) kuatana: _____

SEHEMU D: ISIMUJAMII (al.4)

(a) Isimu jamii ni nini? (alama 2)

_____

_____

1) Eleza mambo **mawili** anayozingatia mzungumzaji yeyote ili kutumia lugha inavyofaa. **(al 2**

_____

_____

SEHEMU E: FASIHI SIMULIZI (ALAMA 6)

(i) Kuna tofauti gani kati ya fasihi simulizi na fasihi andishi. **(alama 2)**

_____

_____

_____

(ii) Eleza tofauti **mbili** kati ya fasihi simulizi na fasihi andishi. **(alama 2)**

_____

_____

(iii) Eleza tofauti kati ya: **(alama 2)**

1) Hekaya: _____

2) Hurafa _____

FORM 1 ENDTERM 3 EXAMS

(SERIES 2)

PHYSICS

TIME: 2 HOURS

NAME…… ADM NO……

SIGN…… ……. DATE;……

QUESTIONS

1) The figure 1 below shows a measuring cylinder with a fluid to the level shown.

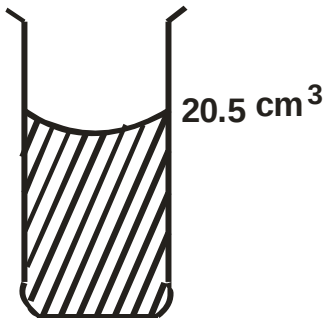


Figure 1

Find the new level when a solid of mass 13.6g and a density 1250kgm^{-3} is fully immersed into the cylinder. **(2 marks)**

2) Define current and state its SI units. **(2 marks)**

3) In a hydraulic press, a force of 200N is applied to a master piston of area $25cm^3$. If the press is designed to produce a force of 5000N, determine;

(a) The area of the slave piston **(2mks)**

(b) The radius of the slave piston **(2mks)**

4. A steel needle when placed carefully on water can float. When detergent is added to the water it sinks. Explain **(2mks)**

5. Water is known to boil at 100^0C. A student heated some water and noticed that it boiled at 101^0C. State two possible reasons for this observation **(2mks)**

6. Explain the cause of random motion of smoke particles as observed in Brown Motion experiment using a smoke cell **(3mks)**

7. Name **two** types of forces that act between bodies not in contact. **(2marks)**

8. Convert the each of the following temperatures into Kelvin **.** **(2 marks)**

a) 25^oc b) -123^oc

9. Calculate the maximum pressure a glass block of density $2.5gcm^{-3}$ would exert on a horizontal surface, if the block measures 20cm x 10cm x 5cm. **(3marks)**

10. Give a reason why fish can survive under water in a pond even when the surface is frozen. **(1mark)**

11. Give **one** advantage of alcohol over mercury as a thermometric liquid. **(1mark)**

12. An object weighs 49N on earth where acceleration due to gravity is 9.8N/kg. Find the acceleration due to gravity on another planet where the same object weighs 40.5N**. (2 marks)**

13. Give a reason why boiling water cannot be used to sterilize a clinical thermometer**.(1 mark)**

14. State four factors that affect thermal conductivity. **(4 mks)**

15. Figure **3** below shows apparatus used to compare the rates of diffusion of gases.

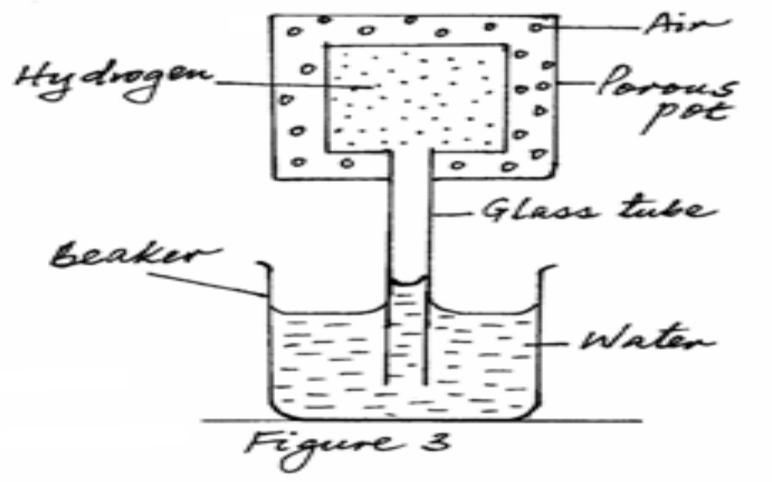


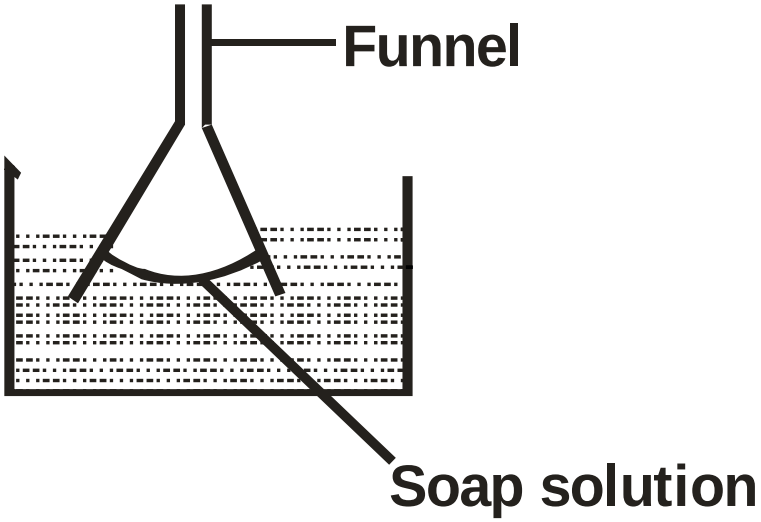
Figure 3

Water is observed to rise up the glass tube. Explain this observation**.** **(2 marks)**

16. The mercury column in a barometer is 760mm high. Taking the density of mercury to be 13.6g/cm³, calculate the atmospheric pressure in N/m². **(2 marks)**

17. a) What is surface tension? **(1 mark)**

b) Figure 4 shows a funnel dipped into a liquid soap solution.



Explain what happens to the soap bubble when the funnel is removed from the soap solution. **(2 marks)**

18. Figure 7 shows a liquid being siphoned from a beaker to another.

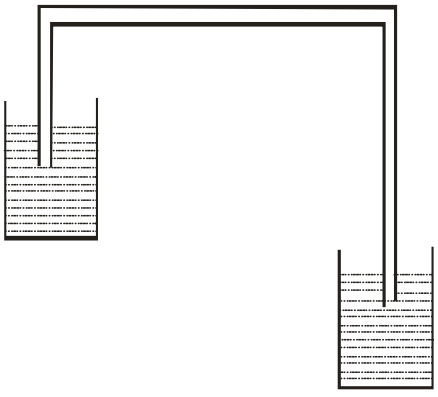
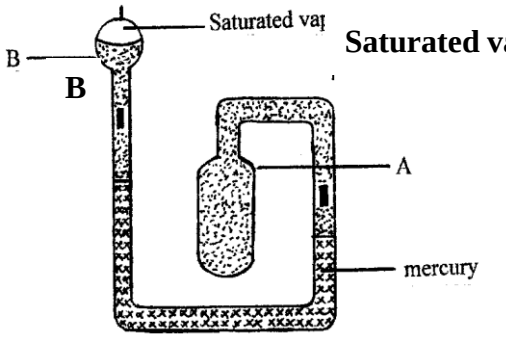


Figure 7

- Indicate on the diagram the direction of flow of the liquid. **(1 mark)**
- Explain what would happen to the flow of the system if it was put in a vacuum**.** **(2 marks)**

3) The diagram below shows a six's maximum/ minimum thermometer.



Saturated vapour

B

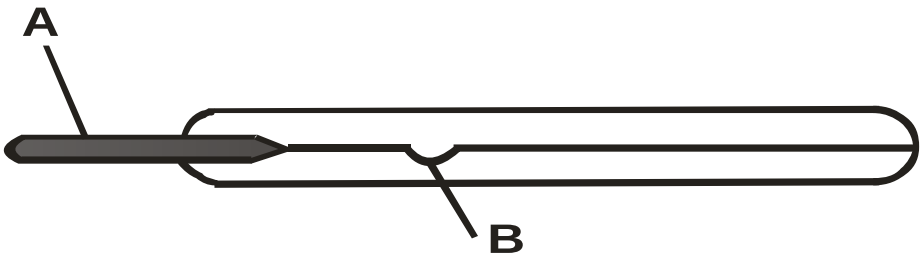
A

2) What is the thermometric liquid in this thermometer? **Mercury** ´1**mark**)

3) Explain how the thermometer indicates maximum and minimum temperature. (4 **marks**)

4) Indicate on the diagram the two points where the reading of the temperature shown by the thermometer can be made. (2 **marks**)

• The figure below shows a clinical thermometer which is not graduated.



1. Name the parts indicated with letters A and B. **(2 marks)**

A

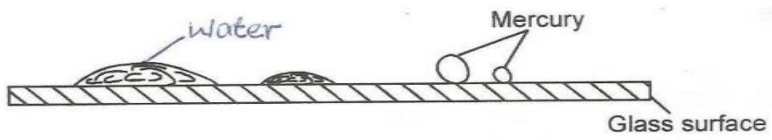
B

2. Give the range of the scale for the above thermometer. **(1 mark)**

- A mercury barometer reads 760mmHg at sealevel and 700mmHg at the top of a mountain. If the density of mercury is 13,600kg/m^3 and average density of air is 1.30kg/m^3, calculate the height of the mountain**.** **(3 mks)**

- In a vacuum flask, the walls enclosing the vacuum are silvered on the inside. State the reason for this.(1mk)

23. The figure below shows the shapes formed when drops of water and mercury are placed on the surface of a clean glass plate



Explain the difference in the shapes.

Explain the difference in the shapes. **(2mks)**

24. Explain why air is not used as a brake fluid. **(1mk)**

1. 20cm^3 of water is mixed with 30cm^3 0f liquid L. Calculate the density of the mixture given that the density of water is 1000kg/m^3 and that of liquid L is 800kg/**m^3.** **(3 mks)**

(i) State four uses of the Electroscope **(4mks**

(ii) A n object of height 5m is placed 10m away from a pinhole camera. Calculate:

7. The size of the image if its magnification is 0.01. **(2 mks)**

8. The length of the pinhole **camera** **(2 mks)**

(iii) What do you understand by the term **temperature** **(1 mk)**

FORM 1 ENDTERM 3 EXAMS

(SERIES 2)

GEOGRAPHY

TIME: 2 HOURS

NAME…… ADM NO……

SIGN…… ……. DATE;……

Instructions to students

1) *Write your name, admission number and class in the spaces provided above.*
2) *Attempt all questions.*
3) *All your answers must be written in the spaces provided below each question.*
4) *All answers must be written in English.*

QUESTIONS

1) What is Geography? **(2mks)**

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2) State four reasons why it is important to study Geography **(4mks)**

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3) a) Name two branches studied in Geography **(2mks)**

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b) Name three areas studied in practical Geography **(3mks)**

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c) State the relationship between Geography and Mathematics **(2mks)**

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4) a) What is the solar system? **(2mks)**

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b) Name four components of the solar system **(4mks)**

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c) State three characteristics of the earth **(3mks)**

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5) a) Name two theories that explain the origin of the earth and the solar system **(2mks)**

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b) Give three weaknesses of the passing star theory **(3mks)**

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6) a) Describe the shape of the earth **(2mks)**

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b) Name the forces that resulted to the spherical shape of the earth **(3mks)**

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c) State four proofs that explain the spherical shape of the earth **(4mks)**

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d) Use a well labeled diagram to describe the lunar eclipse **(7mks)**

7) a) Name two movements of the earth **(2mks)**

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b) State four effects of earth's **rotation** **(4mks)**

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c) Differentiate summer solstice and winter solstice **(4mks)**

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d) What is Equinox? **(2mks)**

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8) a) State three characteristics of the crust **(3mks)**

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b) Name three components of the atmosphere **(3mks)**

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c) Name three layers of the atmosphere **(3mks)**

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d) State three characteristics of the Troposphere **(3mks)**

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e) Differentiate positive lapse rate and negative lapse rate **(4mks)**

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9) a) Define these terms **(4mks)**

- Statistics

- Data

b) Name two types of statistical data **(2mks)**

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c) State three sources of primary data **(3mks)**

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d) State three sources of secondary data **(3mks)**

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e) State three advantages of using observation as a method of data collection **(3mks)**

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10) a) Differentiate between weather and climate **(4mks)**

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b) State three characteristics of a Stevenson's screen **(3mks)**

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c) State three reasons why data can be inaccurate **(3mks)**

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d) Explain briefly how you can measure rainfall using a rain gauge **(4mks)**

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THE END

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

ETC

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