

FORM 2 TERM 1 OPENER

ALL SUBJECTS

*A compilation of entry test examinations for form 2
syllabus work basics.*

**FEEL FREE TO CONTACT MWALIMU
EPUBLISHERS FOR MARKING SCHEMES**

MR ISABOKE 0705525657

FOR MARKING SCHEMES CALL/TEXT/WHATSAPP 0705525657

by taking several steps. _____ take listening seriously. Think of listening as an active process and commit yourself to becoming a better listener. Second, _____distractions. Make a _____ effort to keep your mind on what the speaker is saying. Third, try not to be directed by appearance or delivery.

GRAMMAR (15mrks)

Fill in the blanks with the correct word from the brackets. (3Marks)

- (i) All the guests will be _____ (**dining/dinning**) with the queen tonight.
- (ii) The people of Kameno shunned Chege’s _____ (**prophecy/prophesy**) about the coming of the white men.
- (iii) Children should always listen to their parents pieces of _____ (**advise/advice**)

Explain the difference in meaning between the following pairs of sentences. (2 marks)

- (i) She went and bought herself a skirt.
- (ii) She went and bought a skirt herself.

.....
.....
.....
.....
.....
.....

Choose the correct pronoun from the brackets to complete the following sentences. (3 marks)

- i. Mr.Kamau and _____visited us last year. (he/him/himself)
- ii. John offered Njoroge and _____some biscuits. (I/me)
- iii. Do you think that he is wiser than _____. (I/me)

Complete the following statements with the correct question tag. (3mks)

- a. You will arrive in good time _____
- b. I am doing the English exam _____
- c. I have you money _____
- d. Come here _____

Use a suitable preposition to fill in the gaps in the following sentences. (3mrks)

- a. My birthday isin two weeks’s time.
- b. I need to have my hair cut.....that day.
- c. I went with my sister to the market.....the eleventh hour.

ORAL SKILLS (10 marks)

a) Read the following oral narrative and answer the questions that follow. (10mks)

One day, the chameleon and the donkey were arguing as to who could run faster than the other. The donkey said, “**You chameleon, you are very old and tired. You can’t compete with a man like me in a race.**”

The chameleon replied,” Don’t blow your own trumpet. I am not going to praise myself, but you know you can’t defeat me in a race. We shall be equal.”

The race began and without donkey’s knowledge, the chameleon jumped on the donkey’s tail. They ran and ran, until the donkey was so tired until he stopped to rest. As soon as the donkey stopped, the chameleon jumped from the donkey’s tail and said, “Now my friend, are you any faster than I?”

“No, now I know that you are a man,” answered the poor donkey.

- i. What would you do in order to capture the attention of the audience before you begin to tell the story? (2 marks)

.....
.....
.....
.....
.....
.....
.....
.....

- ii. How would you make the narration of the line indicated in **bold** effective? (4marks)

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

- iii. If you are part of the audience for this story, **explain two** things you would do to show that you are participating in the performance. (4marks)

FORM 2 TERM 1 OPENER

AGRICULTURE

NAME.....ADM NO.....CLASS.....

1) Name FOUR main branches of biology (2mks)

.....
.....
.....
.....
.....

2) State FOUR characteristics of nitrogenous fertilizers (2mks)

.....
.....
.....
.....
.....

3) Differentiate between macro nutrient and micro nutrients (1mk)

.....
.....
.....
.....
.....

4) Diagram M, N,P and Q represents some farm tools



b) Identify the tools , M,N,P, and Q

(2mks)

.....

.....

.....

.....

.....

.....

c) Give the uses of the tools named above (2mks)

.....

.....

.....

.....

.....

.....

5. Given that maize is planted at a spacing of 90 by 30 cm , calculate plant population in a plot of land measuring 4 by 3 m.

(3)

6. State two soil sampling methods

(1mk)

.....
.....
.....
.....
.....
.....

7. Give an example of a crop in which the following vegetative propagation materials are used (4mks)

.....
.....
.....
.....
.....
.....

8. Name two dairy breed of goat

.....
.....
.....
.....
.....
.....

(1mark)

9. State four advantages of using seeds as planting materials

(4mks)

.....
.....
.....
.....

FOR MARKING SCHEMES CALL/TEXT/WHATSAPP 0705525657

.....
.....

10. Describe two chemical processes that are involved in soil formation (2MK)

.....
.....
.....
.....
.....
.....

11. Differentiate between seed dressing and seed inoculation (2mks)

.....
.....
.....
.....
.....
.....

12. A student was to apply a compound fertilizer 5:20:10 at the rate of 200 kg per hectare on her Agriculture project plot measuring 3 by 4 meters.

a) What do the figures 5 and 20 in the compound fertilizer above stand? (1mk)

b) Calculate the amount of fertilizer she would require for the plot (3mks)

FORM 2 TERM 1 OPENER

BUSINESS STUDIES

NAME.....ADM NO.....CLASS.....

1. State the two classifications of trade (1mk)

.....
.....
.....
.....

2. List four features of supermarkets (4mks)

.....
.....
.....
.....

3. What is the difference between open cheque and crossed cheque. (4mks)

.....
.....
.....
.....

4. State four sources of capital for sole proprietorship form of business. (4mks)

.....
.....
.....
.....

FOR MARKING SCHEMES CALL/TEXT/WHATSAPP 0705525657

.....
.....
.....
.....
.....
.....

10. Differentiate between redeemable and irredeemable debentures. (4mks)

.....
.....
.....
.....
.....
.....
.....
.....

FORM 2 TERM 1 OPENER

PHYSICS

NAME.....ADM NO.....CLASS.....

1. Express each of the following volumes in SI unit giving your answer in standard form(2marks)

a) 25000cm^3

b) 0.5675cm^3

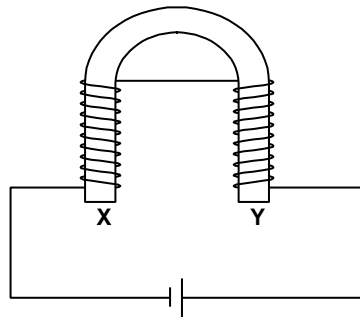
2. State the law of magnetism. (1mark)

.....

.....

.....

3. The figure shows an electromagnet. State the polarities at X and Y.(2 marks)



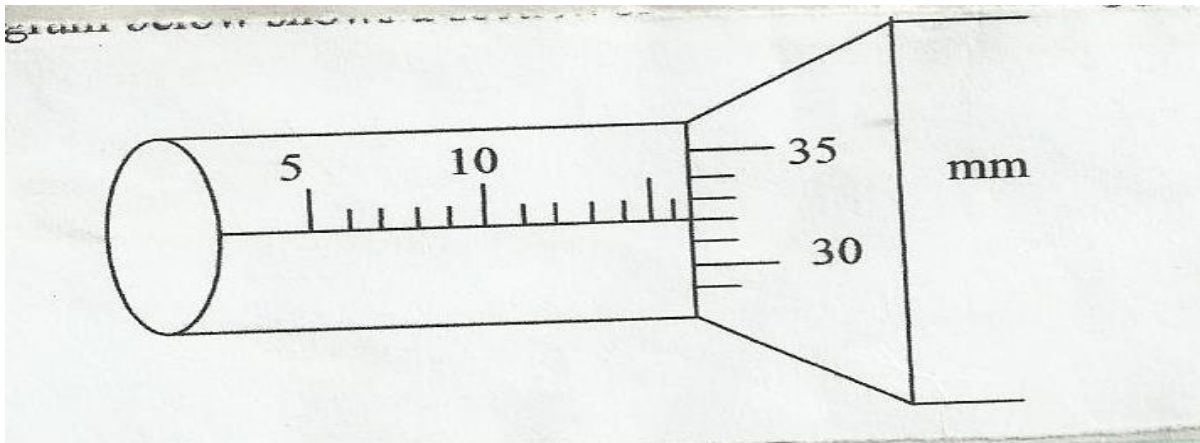
4. Dust particles in air appear to move randomly, explain this observation.(1 marks)

.....

.....

.....

5. The diagram below shows a section of a micrometer screw gauge.



d. State the smallest measurement that can be made by the measurement that can be made by the micrometer screw gauge. (1 mark)

.....

.....

.....

e. What is the correct reading of the micrometer screw gauge if it has an error of 0.25cm (3 marks)

.....

.....

.....

6. State two properties of magnetic field lines(2marks)

.....

.....

.....

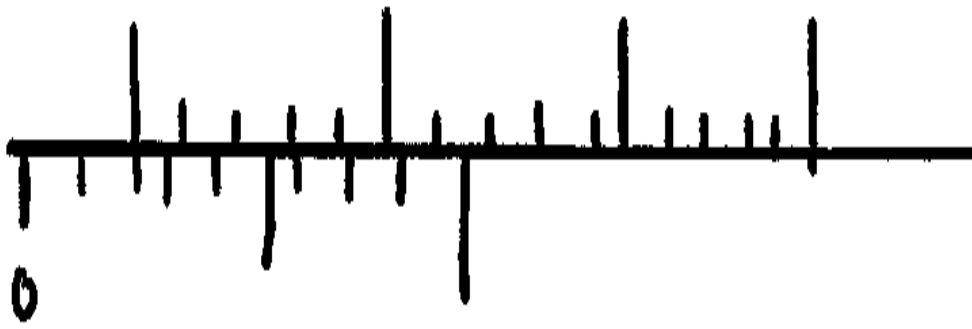
7. A charge of 180coloumbs flows though a lamp every minute. Calculate the current flowing through the lamp(3marks)

.....

.....

.....

8. The figure below shows part of a vernier caliper when the jaws are closed without an object between the jaws



d) What is the value of the zero error of the calipers?(1mark)

.....

.....

.....

e) A student used the same vernier calipers in (a) above to measure the diameter of a test tube whose actual diameter is 2.15cm. What was the reading shown by the calipers(3marks)

.....

.....

.....

9. Explain why repulsion is then sure test for polarity of a magnet(1mark)

.....

.....

.....

10. Explain why a gold leaf is electroscope casing is made up of metal(1mark)

.....

.....

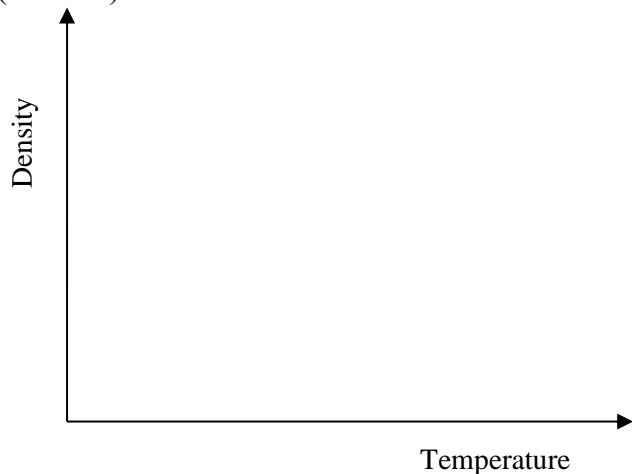
.....

.....

11. Use domain theory to explain the difference between magnetic and non magnetic materials(2marks)

.....
.....
.....

12. On the graph provided, sketch a graph of density against Temperature of a given mass of water(2 marks)



13. State two properties of a good thermometric fluid(2marks)

.....
.....
.....
.....

14. State one application of magnets.(1mark)

.....
.....
.....
.....

15. State the laws of reflection (2mks)

.....
.....
.....

.....

.....

.....

.....

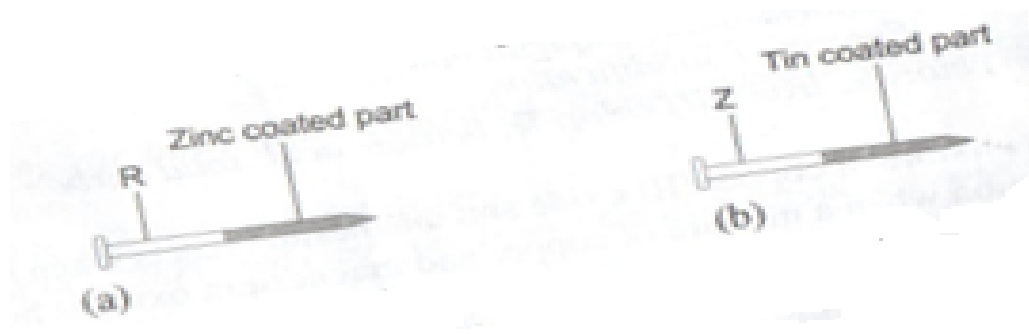
.....

FORM 2 TERM 1 OPENER

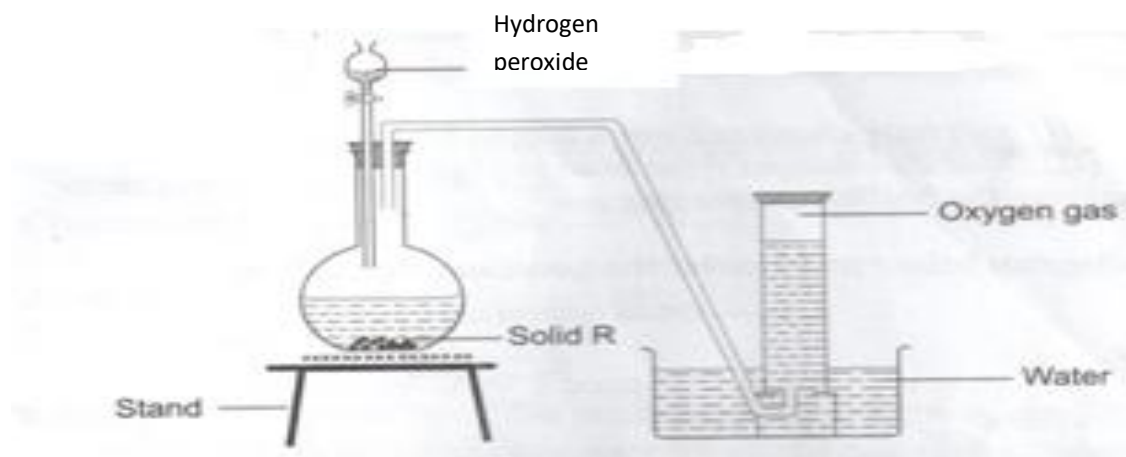
CHEMISTRY

NAME.....ADM NO.....CLASS.....

- c) Fractional distillation of liquid air is usually used to separate various gaseous mixtures in air. Explain how to;
- f) Remove carbon (IV) oxide. (1mk)
- g) Remove water. (1mk)
- h) Obtain nitrogen. (1mk)
- d) The diagrams below represent two iron nails with some parts covered tightly with zinc and tin respectively. What observations would be made at the exposed points R and Z if the wrapped nails are left in the open for several days? Explain.



- e) The Diagram below is set-up for the laboratory preparation of oxygen gas.



FOR MARKING SCHEMES CALL/TEXT/WHATSAPP 0705525657

f. Name solid R

g. Write an equation for the reaction that takes place in the flask. (2mks)

h. Give one commercial use of oxygen. (1mk)

f) An element y has an electron arrangement of 2.8.5

a) State the period and group which the element belongs. (2mks)

b) Write the formula of the most stable ion formed when the element Y ionizes (1mk)

c) Explain the difference between the atomic radius of element Y and its ionic radius (2mks)

.....
.....
.....
.....
.....

g) Lithium has two isotopes with mass numbers 6 and 7. If the R.A.M (relative atomic mass) of Lithium is 6.94, determine the percentage abundance of such isotope.

.....
.....
.....
.....
.....

h) Other than their location in the atom, name two other differences between an electron and a proton.(2mks)

.....
.....
.....
.....

.....
.....
.....

i) Write down the electronic configuration of the atoms with the following atomic numbers(2mks)

- a) 7
- b) 9
- c) 14
- d) 18

j) An atom of an element has the electronic configuration 2.8.2

a) State its atomic numbers

b) To which group of the periodic table does it belong? Explain.

c) Is the element a metal or a non-metal? Explain (1mk)

d) If the atom has 14 neutrons in its nucleus state its mass number. (1mk)

k) Rubidium (Rb) is a member of the alkali metals. Predict how the element reacts with: (3mks)

16. Water

17. Air

18. Chlorine

l) Briefly explain the following observations. (1mk)

e. Noble gases are generally unreactive.

f. Alkaline earth metals are generally less reactive than alkali metals in the same period. (2mks)

.....
.....
.....

.....

.....

.....

.....

.....

FORM 2 TERM 1 OPENER

CHRISTIAN RELIGIOUS EDUCATION

NAME.....ADM NO.....CLASS.....

1.State the Jewish expectations about the Messaiah?(5mks)

.....

.....

.....

.....

.....

.....

.....

.....

.....

2.How did Jesus fulfilled the prophecy of Isaiah about the Messiah?(5mks)

.....

.....

.....

.....

.....

.....

.....

.....

.....

3.Why should Christians train children about God at an early age?(5mks)

.....

.....

.....

.....

.....

.....

.....

.....

.....

4.State ways in which John the Baptist prepared the way for the messiah(5mks)

.....

.....

.....

.....

.....

.....

.....

.....

5.State the effects of idolatry in Israel (5mks)

.....

.....

.....

.....

.....

.....

.....

.....

6.What were some of the measures taken in the Traditional African community to discouraged pregnancy before marriage(5mks)

.....

.....

.....

.....

.....

.....

.....

.....

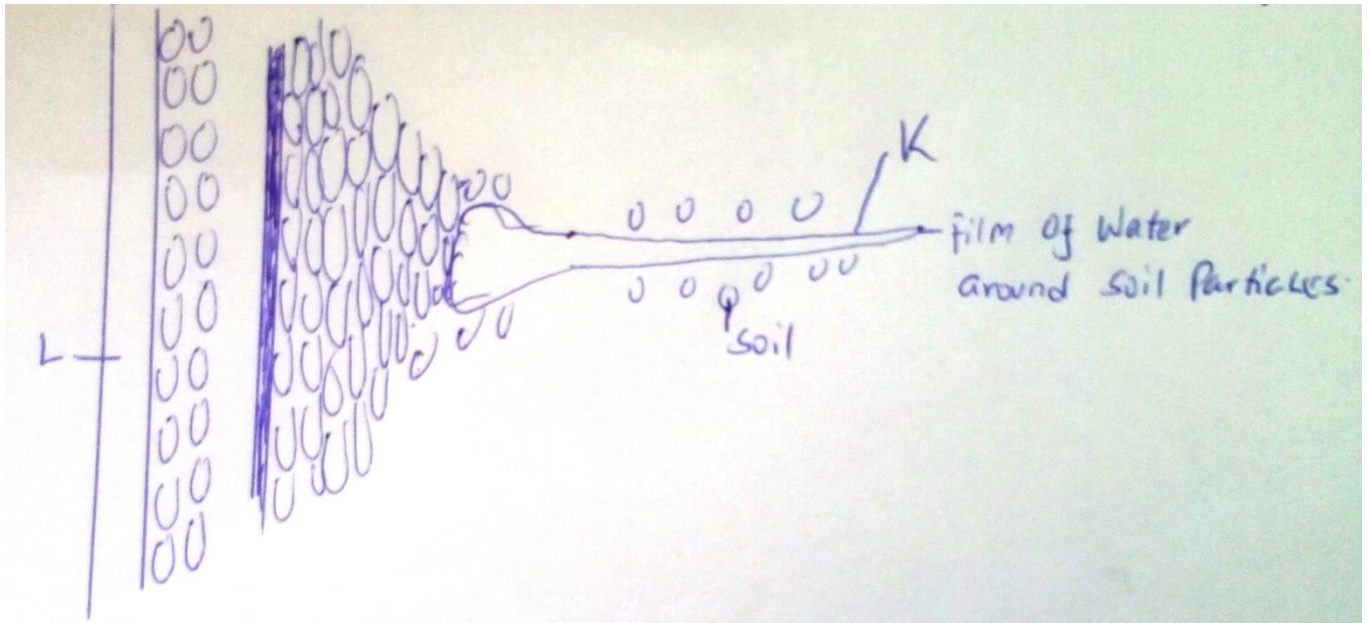
FORM 2 TERM 1 OPENER

BIOLOGY

NAME.....ADM NO.....CLASS.....

Answer all the questions in the spaces provided.

1. The diagram below represents these pathways of water from the soil into the plant.



(a) Name the structures labeled K and L. (2 mks)

(b) Explain how water from the soil reaches the structure labeled L. (5 mks)

.....

.....

.....

.....

.....

.....

.....

.....

(c) Name the process by which mineral salts enter into the plant. (1 mk)

2. State four ways in which xylem vessels are adapted to their functions. (4 mks)

.....
.....
.....
.....
.....
.....
.....
.....
.....

3. Name two processes that bring about the translocation of manufactured food. (2 mks)

.....
.....
.....
.....
.....
.....
.....
.....
.....

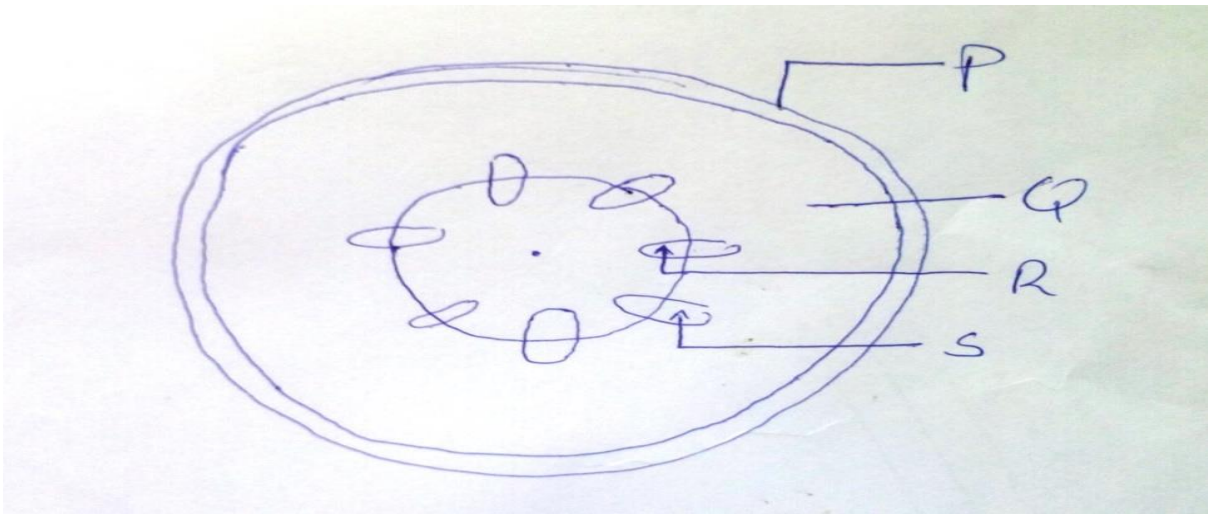
4. Name three significance of transpiration. (3 mks)

.....
.....
.....
.....
.....
.....
.....
.....
.....

5. State three structural factors affection affecting the rate of transpiration in plants. (3 mks)

.....
.....
.....
.....
.....
.....
.....
.....
.....

6. The diagram below shows a cross section of a dicotyledonous plant. Use it to answer the questions that follow.



(a) Identify three parts labeled P, Q, R and S. (4 mks)

.....

.....

.....

.....

.....

.....

.....

.....

(b) State the functions of the parts labeled R and S. (3 mks)

.....

.....

.....

.....

.....

.....

.....

.....

7. What is the function of carnassials teeth. (2 mks)

.....

.....

.....

8. Distinguish between the term homodont and heterodont. (3 mks)

.....
.....
.....
.....
.....
.....
.....
.....

9. State two functions of bile juice in the digestion of food. (2 mks)

.....
.....
.....
.....

10. Plant cell do not burst when immersed in distilled water. Explain. (2 mks)

.....
.....
.....
.....

11. Describe what happens during the light stage of photosynthesis. (3 mks)

.....
.....
.....
.....

12. State and explain three factors that affect enzymatic activities. (6 mks)

.....
.....
.....
.....
.....

FOR MARKING SCHEMES CALL/TEXT/WHATSAPP 0705525657

.....
.....

13. State the functions of the following organelles: (1 mk)
 (i) Ribosomes

 (ii) Lysosomes (1 mk)

14. Name two dental diseases. (2 mks)

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

.....
.....
.....
.....
.....
.....
.....
.....

FORM 2 TERM 1 OPENER

GEOGRAPHY

NAME.....ADM NO.....CLASS.....

Answer all the questions in the spaces provided.

1. (a) What are earth movements? (1marks)

.....
.....
.....

- (b) Outline four causes of earth movements (4marks)

.....
.....
.....
.....
.....
.....

- (c) Differentiate between horizontal and vertical earth movements (2marks)

.....
.....
.....
.....
.....
.....
.....

2. Describe the theory of continental drift (5marks)

.....
.....
.....
.....
.....

4. (a) Define the term folding. (2marks)

.....
.....
.....
.....

(b) Give two factors that determine the extent of folding (2marks)

.....
.....
.....
.....

(c) State two differences between symmetrical and asymmetrical folds. (4marks)

.....
.....
.....
.....
.....
.....

5. Explain three problems facing gold mining in south Africa (6marks)

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

FORM 2 TERM 1 OPENER

HISTORY

NAME.....ADM NO.....CLASS.....

Answer all the questions in the spaces provided.

SECTION A: 15 MARKS)

1. Define the term anthropology. (1 mk)

.....
.....
.....
.....

2. Identify two important rivers that supported early Agriculture in Mesopotamia. (2 mks)

.....
.....
.....
.....

3. Give two challenges that faced pioneer farmers in U.S.A. (2 mks)

.....
.....
.....
.....

4. Give two religious functions of Orkoiyot among the Nandi in pre-colonial Kenya. (2 mks)

.....
.....
.....
.....

FOR MARKING SCHEMES CALL/TEXT/WHATSAPP 0705525657

5. Identify one way of becoming a Kenyan citizen. (1 mk)

.....
.....
.....
.....

6. Mention two peaceful ways of solving conflicts in the society. (2 mks)

.....
.....
.....
.....

7. What is trade? (1 mk)

.....
.....
.....
.....

8. Name two types of trade. (2 mks)

.....
.....
.....
.....

9. Give two animals used to transport goods in traditional society in Kenya. (2 mks)

.....
.....
.....
.....

10. Identify any two fastest ways of transporting goods in modern world. (2 mks)

.....
.....
.....
.....

.....
.....
.....

12. (a) Identify any three characteristics of regional trade. (3 mks)

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

(b) Explain the factors that led to decline of Trans-Atlantic slave Trade. (12 mks)

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....

FORM 2 TERM 1 OPENER

KISWAHILI

NAME.....ADM NO.....CLASS.....

Answer all the questions in the spaces provided.

LUGHA

1. UFAHAMU

(Alama10)

Soma kifungu kifuatacho kisha ujibu maswali

Tokea muundo mpya wa serikali ya ugatuzi uanze kutekelezwa miaka miwili iliyopita, kumeendelea kushuhudiwa matatizo mengi hali iliyopelekea kushuhudiwa kwamsururu wa migomo na maandamano ya raia. Fujo za karibuni kabisa ni zile zinazoshuhudiwa katika miji mikubwa za wachuuzi na wafanyibiashara wakipinga hatua za serikali za kaunti kuwatoza ushuru takribani kwa kila huduma na bidhaa ikiwemo wanyama, kuku na ndege. La kuhuzunisha zaidi katika baadhi ya majimbo imeripotiwa kuwa raia wamelazimishwa kulipa ushuru kwa kutaka tu kuona maiti za jamaa zao kwenye vyumba vya kuhifadhi maiti.

Wanasiasa wameonekana kuwa na wakati mgumu kutetea mfumo huu mpya wa ugatuzi huku baadhi wakisema kwamba matatizo yanayoshuhudiwa kwa sasa yametokana na ugeni wa mfumo huo. Wengine wameinyoshea kidole serikali ya kitaifa kwamba ndiyo inayosambaratisha muundo huu. Wengine wanahoji kuwa bado ni mapema na kwamba kunatajika muda mrefu ili kufaulu.

Ni wazi kwamba kumekosekana nidhamu bora ya kusimamia maisha ya raia nchini Kenya. Matatizo yanayokumba raia kwa sasa ni dalili kuwa mfumo wa serikali ya ugatuzi umeongezea chumvi kwenye kidonda badala ya kutibu. Swali ni je, hadi lini nidhamu ya kusimamia raia itakuwa ni suala la majaribio na makosa?

Hatua ya kuwarundikizia raia ushuru mkubwa ni kitendo cha unyonyaji na cha dhuluma kinachofaa kupingwa. La kufahamishiwa hapa ni kwamba ushuru ndio njia kubwa ya kuzalisha mapato ya serikali zinazojifunga na mfumo wa kimagharibi wa kiuchumi wa kibepari ikiwemo Kenya. Asilimia 90 ya mapato ya serikali za kibepari huegemea ushuru. Kwa hivyo hatua ya serikali za kaunti katika kuwanyonya raia kwa kuwalipisha ushuru si ajabu bali ni thibitisho kuwa jamii ya Kenya inaongozwa na nidhamu ya kiuchumi ya ubepari mfumo wa unyonyaji na ukandamizaji. Ukweli unabakia kuwa ndani ya serikali za kibepari raia ndio hubebeshwa mzigo wa ushuru unaoishia matumboni mwa viongozi!

Miito ya mabadiliko ya katiba na ya miundo mipya ya kiutawala si lolote ila ni moja tu ya hatua za mfumo wa kibepari kujipa muda wakuishi na kuziba aibu zake za kushindwa kusimamia maisha ya watu. Kufeli huku kwa mfumo huu kunashuhudiwa hadi kwenye nchi kubwa za kibepari kama Marekani na Uingereza hivyo nazo zimekumbwa tele na maandamano na fujo za raia wakilalamikia hali ngumu ya maisha.

Maswali

a. Yape makala haya anwani mwafaka.

(alama 1)

.....
.....

b. Eleza mtazamo wa wanasiasa kuhusu utepetevu wa mfumo huu. (alama 3)

.....
.....

c. Migomo ni zao la matatizo yaliyogatuliwa kutoka kuu. Toa sababu nyingine zinazosababisha migomo katika serikali za ugatuzi (alama 3)

.....
.....

d. Thibitisha jinsi mfumo wa ugatuzi umeongeza chumvi kwenye kidonda badala ya kutibu (alama 2)

.....
.....

e) Eleza maana ya neno lifuatalo (alama 1)
i) Ugatuzi

.....
.....

2. MATUMIZI YA LUGHA

a) Tofautisha kati ya mofimu huru na mofimu funge. (Alama 2)

b) Ainisha mofimu hizi. (Alama 2)

- i) Mende
- ii) Mpwa

c) Ainisha viambishi viambishi katika neon lifuatalo. (Alama 2)
Anayemtembelea

d)Tunga sentensi moja ili kutofautisha maana. (Alama 2)
i) Baba

ii) Papa

e. Tumia neno safi kama nomino kutungia sentensi. (Alam 2)

f. Tumia kivumishi kiashiria cha mbali kidogo pamoja na ngeli ya I- ZI katika sentensi sahihi. (Alama 2)

g. Kanusha katika ukubwa wingi. (Alama 2)
Mtoto alikuwa amelia.

ISIMU JAMII

h. Taja sifa tano za sajili ya hotelini. (Alama 5)

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

.....

FORM 2 TERM 1 OPENER

MATHEMATICS

NAME.....ADM NO.....CLASS.....

1. Given $a:b = 2:3$ and $b:c = 4:8$ find $a:b:c$.

(2 marks)

2. Using mathematical tables to find;

$$0.0912^3$$

(2 marks)

3. Solve for x in the equation.

$$27^x \times 3^{(2x-2)} = 9^{(x+2)}$$

(3 marks)

4. Simplify:

$$\frac{512^{\frac{4}{3}} \times 27^{\frac{-2}{3}}}{128^2 \times 9^{-2}}$$

(4 marks)

FOR MARKING SCHEMES CALL/TEXT/WHATSAPP 0705525657

5. Use logarithms to 4 decimal places to evaluate:

(4 marks)

$$\left(\frac{0.7841 \times \sqrt{0.1356}}{84.92} \right)^{\frac{1}{3}}$$

6. Use squares, square roots and reciprocals tables only to evaluate;

$$\frac{3}{\sqrt{42.15}} + \frac{4}{(3.152)^2}$$

(4 marks)

7. Find the equation of a line through point (5, -1) and perpendicular to line $4x + 2y - 3 = 0$.

(4 marks)

FOR MARKING SCHEMES CALL/TEXT/WHATSAPP 0705525657

8. Four towns **P**, **Q**, **R**, and **S** are such that the town **Q** is 120 Km due to East of town **P**. Town **R** is 160km due north of town **Q**, town **S** is on a bearing of 330° from **Q** and on a bearing of 300° from **R**.

9. Show the relative position of towns **P**, **Q**, **R**, and **S**.

Take the scale of 1cm to rep. 50km.

(5mks)

10. Use the drawing to determine

a. The distance **SP** in Km

(2mks)

b. The bearing of **S** from **P**

(1mk)

FOR MARKING SCHEMES CALL/TEXT/WHATSAPP 0705525657

SUCCESS

FOR MARKING SCHEMES
CALL/TEXT/WHATSAPP 0705525657

FOR MARKING SCHEMES CALL/TEXT/WHATSAPP 0705525657