

# FORM 2 ALL SUBJECT EXAMS

For the Marking Schemes [WhatsApp/sms/call](https://www.whatsapp.com/sms/call)

**Sir Obiero Amos @ 0706 851 439**

*Subjects Tested include;* Maths, Eng ,Kisw, Bio, Chem, Phy,

Geog, Hist, CRE, Agric, B/S, Home Sci & Computer

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NAME: \_\_\_\_\_ ADM NO.: \_\_\_\_\_

CLASS : \_\_\_\_\_ SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

FORM 2

BIOLOGY

END OF TERM 1

TIE: 2½HRS

## END OF TERM ONE EXAMINATION

### INSTRUCTIONS

1. Answer all the questions in the spaces provided

1. a) Define the following branches of Biology.

(4mks)

i. Botany

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.....

ii. Anatomy

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iii. Embryology

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.....

iv. Genetics

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.....

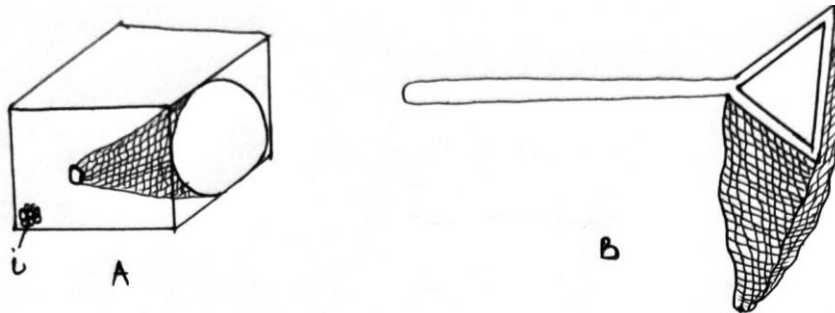
b) Mention three importance of studying Biology (3mks)

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

2. a) Outline the precautions a student should take when collecting, preserving and observing live specimen in a Biological laboratory. (3mks)

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

b) The diagram below illustrate some apparatus used in collection of biological specimens for study.



i. Identify the apparatus

A .....

B .....

ii. Identify part labeled (i) and state it function;

Name .....

Function .....

c) What is the importance of the following characteristics of living organism. (2mks)

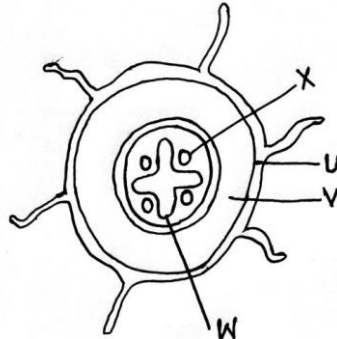
i. Nutrition

.....

ii. Excretion

.....

3. Below is a transverse section of a young plant.



a) i) Identify the part from which the section was removed. (1mk)

.....

ii) Give two reasons (2mks)

.....

.....

b) Name the parts labelled U, V, W and X (4mks)

U ..... V .....

W ..... X .....

c) If the young plant was first immersed in a red dye for one hour before the section was made, which part that would be stained Red. (1mk)

.....

d) State three adaptation of the structure labelled W to its function (3mks)

.....

.....

.....

.....

4. a) Outline the adaptation of Xerophytes that enables them to deal with problems of transpiration (4mks)

.....

.....

.....

.....

b) Describe three structural differences between arteries and veins (3mks)

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

c) State the importance of circulatory systems in animals. (3mks)

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

5. a) Distinguish between magnification and resolution (2mks)

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

b) Name two instruments used to magnify specimens in a biology laboratory (2mks)

.....  
.....

c) Why is it advisable to use the fine adjustment knob only when focusing on an object using the high power objective lens? (1mk)

.....  
.....

6. Give the significance of the following activities in microscopy? (3mks)

i. Keeping sections in water

.....

ii. Staining sections

.....

iii. Cutting very thin sections

.....

7. State the function of the following parts of a microscope (2mks)

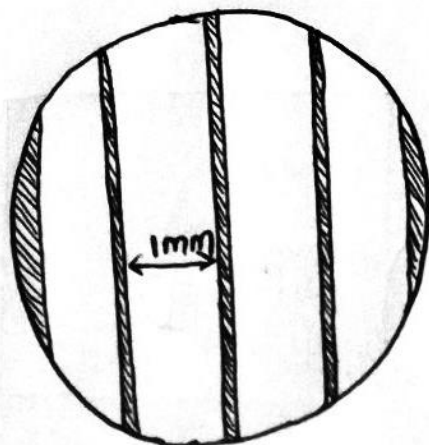
i. Turret

.....

ii. Objective lens

.....

8. a) Form two students at Twaweza School observed 10 cells across the field of view shown below. Calculate the size of one cell in microns (1000microns = 1mm) (2mks)



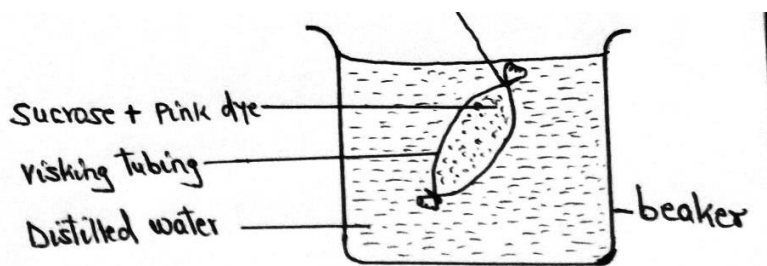
- b) State one limitation of estimating the cell size using above method. (1mk)

.....

9. Differentiate between an organ and a tissue giving examples in animals. (2mks)

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

10. Form two students set up an experiment to investigate two physiological processes in living organisms. At the end of the experiment, they observed that the visking tubing had increased in size while the water in the beaker turned pink.



- a) Name the physiological process responsible for;  
 i. Water in the beaker turning pink (1mk)

.....

- ii. The visking tubing increasing in size (1mk)

.....

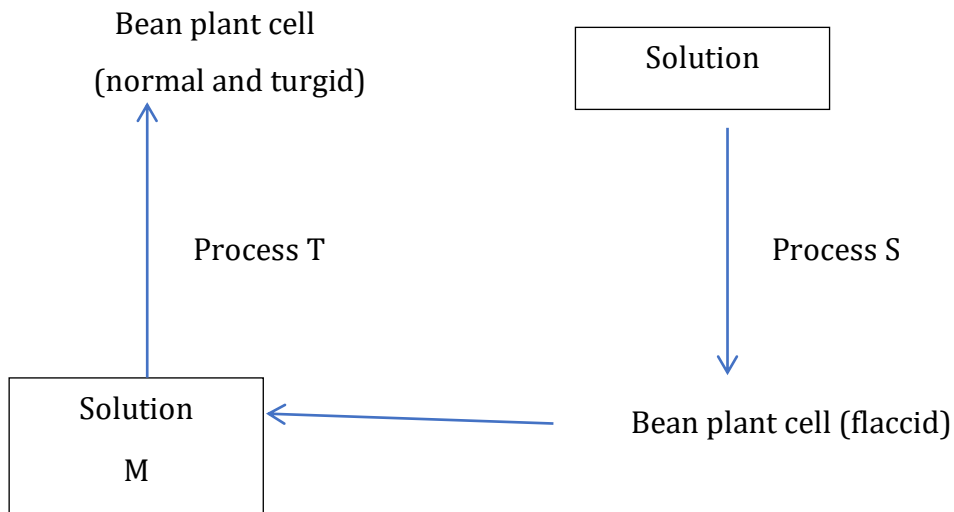
- b) i) Describe how that physiological process named in a(ii) above occurred (3mks)

.....  
 .....

.....  
 .....  
 ii) State three illustrations of the process named in a(ii) above in plants (3mks)

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

11. Use the scheme below to answer questions that follow.



a) Give the nature of solution (2mks)

K .....

M .....

b) Name process; (2mks)

T .....

S .....

c) Describe how process S occurs (3mks)

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

d) Why is it not possible to obtain a normal animal cell in process T (1mk)

.....  
 .....

12. a) Active transport is an active process. Explain (2mks)

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

b) Explain how surface area to volume ratio affects the rate of diffusion. (2mks)

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

13. The scientific name for lion is PANTHERA LEO.

i. Identify the generic and specific name (2mks)

.....  
.....

ii. Give two mistakes made when writing the scientific name (2mks)

.....  
.....

iii. A lion and a leopard are both in the cat family yet they cannot interbreed. Explain (1mk)

.....  
.....

iv. What is Binomial nomenclature (1mk)

.....

v. State two rules of binomial nomenclature (1mk)

.....  
.....

vi. Give three reasons why classification is important (3mks)

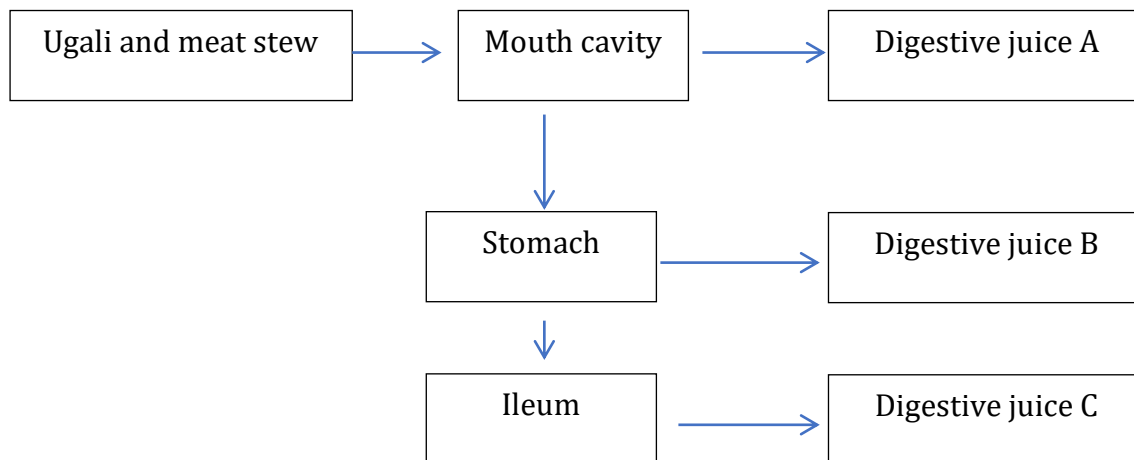
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.....

14. a) Differentiate between ingestion and egestion. (2mks)

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



b) The following flow diagram represents passage of a meal through the human digestive system. Study the diagram and answer the question that follow.



- i. Name the physical process that will occur in the mouth cavity (1mk)  
 .....
- ii. Name the digestive juices represented by B and C (2mks)  
 B .....  
 C .....
- iii. Explain two ways in which the digestive system is protected from corrosive effects of digestive juices. (2mks)  
 .....  
 .....  
 .....  
 .....
- iv. Name the hormone that stimulates the secretion of juice B (1mk)  
 .....
- v. Identify two contents of digestive juice A (2mks)  
 .....  
 .....

15. Explain five adaptations of the leaf to its photosynthetic function. (10mks)  
 .....  
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SIGNATURE: \_\_\_\_\_

FORM 2

CHEMISTRY

END OF TERM 1

TIE: 2¼HRS

## **END OF TERM ONE EXAMINATION**

### **INSTRUCTIONS**

1. Answer all the questions in this paper.

Mathematical tables and silent calculator may be used.

All questions should be answered in English

### **FOR EXAMINERS USER ONLY**

QUESTION	MAXIMUM SCORE	CANDIDATE SCORE
1	10	
2	5	
3	9	
4	8	
5	8	
6	3	
7	4	
8	3	
9	9	
10	6	
11	8	
12	5	
13	11	
14	6	
15	5	
Total	100	

1. (a) What is a Flame

(1mk)

.....  
.....

(b) In term of colour, size and zones differentiate between luminous and non-luminous flames

(3mks)

Flames	Colour	Zones	Size
Luminous			
Non-luminous			

(c) Name two apparatus for approximate measure of volume and two apparatus for accurate measure of volume

Approximate measure of volume

(1mk)

.....  
.....

Accurate measure of volume

(1mk)

.....

(d) What Is a drug

(1mk)

(e) Give two reasons why most laboratory apparatus are made of glass

(2mks)

(f) Name the apparatus below.

(1mk)



.....

2. (a) What is sublimation

(1mk)

.....  
.....

(b) Name two substances that undergo sublimation

(1mk)

.....

.....

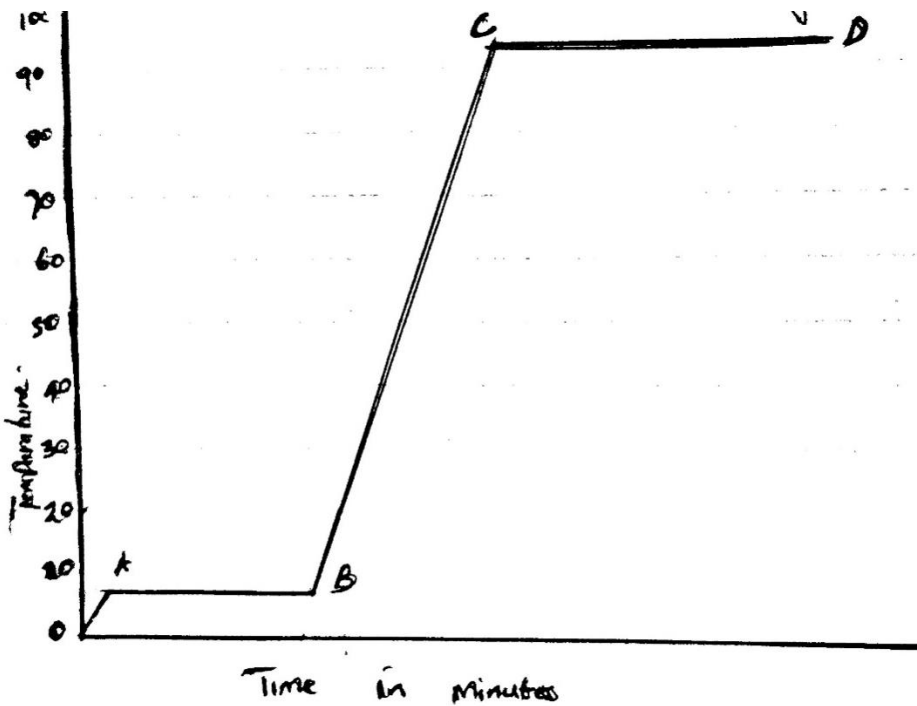
(c) A mixture contains chloride, sand and common salt. Name 3 processes in order that can be used to separate the mixture (3mks)

.....

.....

.....

3. (a) The diagram below shows a heating curve of solid A. use it to answer questions that follow.



(1mk)

.....

(b) What is the state of substance A at room temperature?

(1mk)

.....

(c) Name the process represented by region AB

(1mk)

A .....

B .....

(d) The table below shows some chemistry processes. Indicate on the table the type of change that takes place when they occur. (3mks)

Process	Type of change
(i) Heating ice	
(ii) Heating hydrated copper (II) sulphate	
(iii) Heating copper (II) Nitrate	

(e) Name the elements in the following compounds

(i) Magnesium Nitrate (1½mk)

.....

(ii) Sodium Carbonate (1½mk)

.....

4. (a) What is an acid base indicator. (1mk)

.....

(b) The table below show some substances and their PH

Substance	PH
A	7
B	14
C	5
D	10
E	2

Which substance is likely to be;

(i) Sulphuric (VI) acid (1mk)

.....

(ii) Sodium chloride (1mk)

.....

(c) Magnesium carbonate reacts with Hydrochloric acid to form a colourless solution T, gas W that forms a white precipitate with lime water and a Liquid S.

(i) Name T,W and S (3mks)

T .....

W .....

S .....

(ii) Write a word equation to the reaction (1mk)

.....

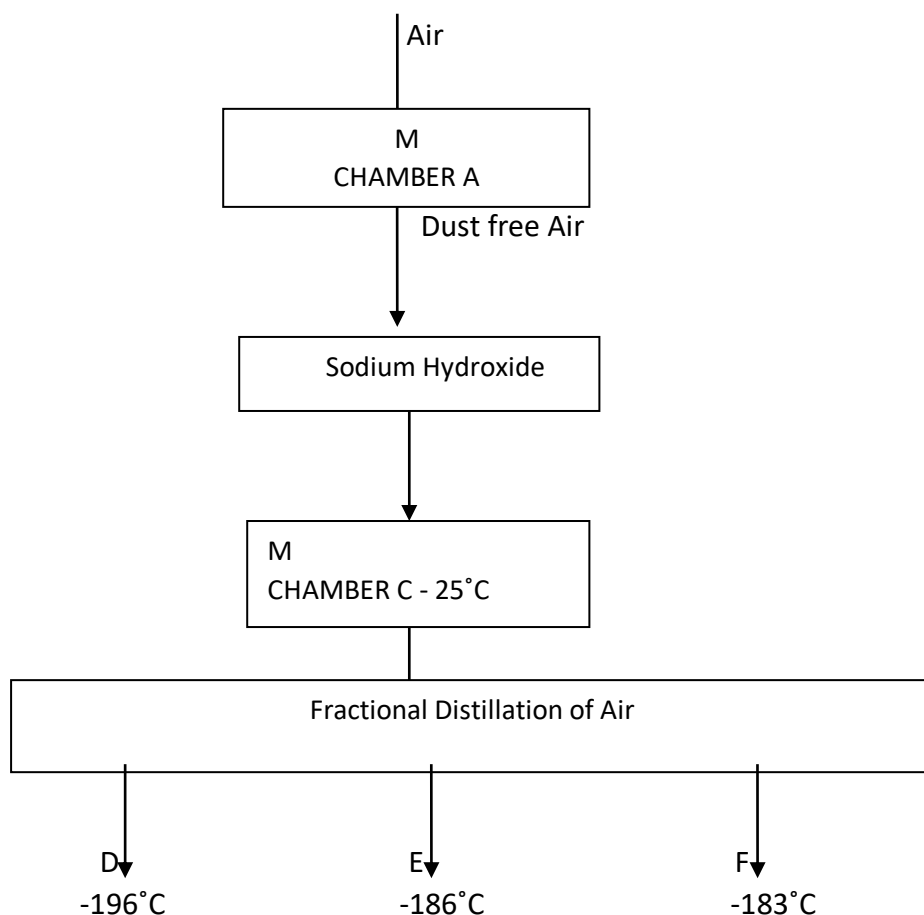
(iii) Explain why a reaction between Lead Carbonate and Sulphuric (VI) acid stops after a while.

(1mk)

5. Air is a mixture and not a compound, give two reasons

(a) To support this statement (2mks)

(b) The scheme below shows some steps in fractional distillation of Liquid Air. Use it to answer the questions that follows



(i) Name the process that takes place in chamber A (1mk)

(ii) What is the purpose of sodium hydroxide (1mk)

(iii) Name the substance.... In chamber C (1mk)

(iv) Name D, E and F (3mks)

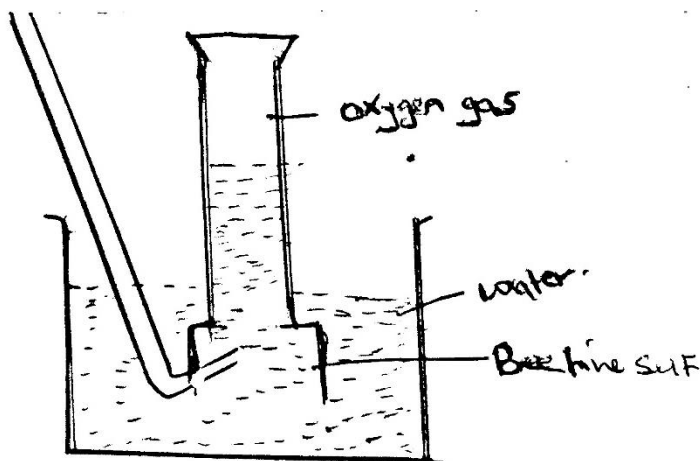


.....  
.....  
.....  
6. (i) Write the chemical formula of Rust (1mk)

.....  
(ii) State two factors that increase the rate of rusting (1mk)

.....  
(iii) State two ways of preventing rust (1mk)

.....  
7. In an experiment to prepare oxygen, Manganese (IV) oxide was added to hydrogen peroxide to increase the rate of reaction.



(i) What name is given to a substance like Manganese (IV) oxide (1mk)

.....  
(ii) Oxygen gas is collected using the method shown below.

.....  
(a) Name the method (1mk)

.....  
(b) Why is it possible to collect the gas using the method above. (1mk)

(c) How can the gas collected be oxygen? (1mk)

8. The table below show some oxides and their nature. Complete the table (3mks)

Oxide	Nature
Sodium oxide	
Aluminium oxide	Amphoteric
	Acidic
Water	

9. (i) What are hydrocarbons (1mk)

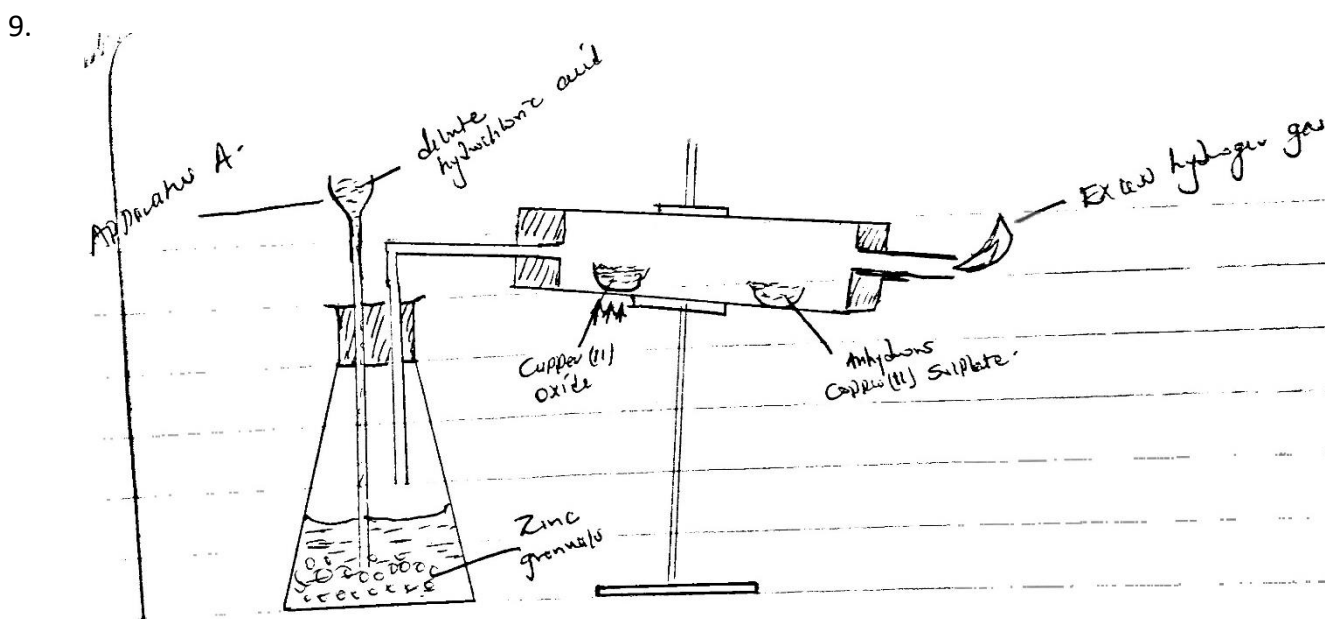
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(ii) Name the two products of burning an hydrocarbon (2mk)

.....  
.....

(iii) The diagram below shows some steps and properties of hydrogen gas. Study it and use it answer the questions that follows

.....  
.....



(a) Name apparatus A (1mk)

.....

(b) State the observations made in

(i) Copper (II) oxide (1mk)

.....

(ii) Anhydrous copper (II) Sulphate (1mk)

.....

(c) Name the property of hydrogen gas when it reacts with Copper (II) oxide. (1mk)

.....

(d) Write a chemical equation for the above reaction (1mk)

.....

(e) Hydrogen gas is collected by upwards delivery, state one use of hydrogen based on the same property that makes it collected using the above method. (1mk)

.....

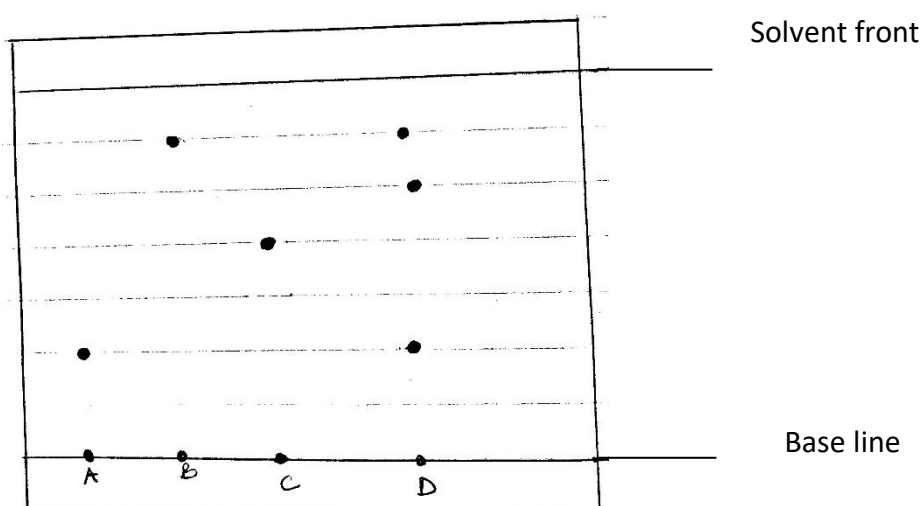
10. Name two physical properties that determines the;

(a) Chromatograph of a substance (2mk)

.....

.....

(b) The diagram below shows the results obtained after chromatography of 3 pure pigments A, B and C together with a mixture D. study it and use it to answer the questions that follows



(i) Which pure pigment is the most soluble (1mk)

.....  
(ii) How many components makes up mixture D (1mk)

.....  
(iii) Name two pure pigments in mixture D (2mks)

.....  
11. (a) Other than location state two differences between electrons and protons (2mks)

.....  
(b) An element can be represents as  ${}_{19}^{39}Q$

(i) What does 39 represent (1mk)

.....  
(ii) What does 19 represent (1mk)

.....  
(iii) How may Neutron does Q have (2mks)

.....  
(c) Write the formula of Ion of Q (2mks)

.....  
12. Write the chemical formula of the following compounds (5mks)

(i) Potassium chloride

.....  
(ii) Magnesium chloride

.....  
(iii) Sodium sulphate

.....  
(iv) Copper (II) nitrate

.....  
(v) Aluminium oxide

.....  
13. The grid below shows part of the periodic table. Letters do not represent the actual symbols of the elements, use it to answer the questions that follows

<b>A</b>								
<b>B</b>								
<b>C</b>	<b>D</b>		<b>E</b>	<b>F</b>	<b>G</b>	<b>H</b>	<b>I</b>	<b>J</b>

(a) Give the name of the families to which

(i) A belongs (1mk)

.....

(ii) I belongs (1mk)

.....

(b) Write the electronic arrangement of element E (1mk)

.....

(c) Select an element that forms a divalent cation (1mk)

.....

(d) Using dots (•) or cross (x) to represent electrons draw the atomic structure of the atom of F.

(2mks)

(e) Select an element that will react rapidly with cold water (1mk)

.....

(f) An element form anion L<sup>-</sup> with the following electron configuration 2:8:8. Indicate the position of L in

the arid

(2mks)

(g) What is the nature of the oxide of C (1mk)

.....

(h) Write the formula of the oxide of E (1mk)

.....

14. (a) What are isotopes (1mk)

.....

(b) Name the two isotopes of carbon (2mks)

.....

.....

(c) Chlorine has two isotopes  $^{35}\text{Cl}$  and  $^{37}\text{Cl}$ . If their percentage abundance is 75% and 25% respectively, Calculate the relative atomic mass (R.A.M) of Chloride (3mks)

15. Write balanced chemical equation for the reactions outlined below. (5mks)

(i) Sodium metal and water

.....

.....

(ii) Magnesium metal and oxygen

.....  
.....

(iii) Sodium Hydroxide and dilute hydrochloric acid.

.....  
.....

(iv) Zinc metal and dilute Sulphuric (VI) acid

.....  
.....

(v) Calcium carbonate and dilute Nitric (V) acid

.....  
.....

Name: ..... Class: .....

Date: ..... Adm No: .....

MATHEMATICS

TIME: 2 HOURS 30 MINUTES

# **END OF TERM 1 EXAM**

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

## **FORM TWO**

### **INSTRUCTIONS TO CANDIDATES:**

- Write your name, admission number, Class, Signature and write date of examination in the spaces provided
- The paper contains two sections. Section I and Section II.
- Answer ALL the questions in section I
- Answer any five questions in section II.
- Answers and working must be written on the question paper in the spaces provided below each question.
- Show all steps in your calculations below each question.
- Marks may be given for correct working even if the answer is wrong.
- KNEC mathematical table may be used, except where stated otherwise.

### **FOR EXAMINERS USE ONLY**

#### **SECTION I**



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

**SECTION II**

Question	17	18	19	20	21	22	23	24	TOTAL
Marks									

**GRAND TOTAL**

--

**SECTION I (50 MARKS)**

**Answer all the questions from this section**

1. Work out the following, giving the answer as a mixed number in its simplest form

$$\frac{2}{5} \div \frac{1}{2} \text{ of } \frac{4}{9} - 1\frac{1}{10}$$

$$\frac{1}{8} - \frac{1}{6} \times \frac{3}{8}$$

(3marks)

2. When a certain number is divided by 30, 45, 54, there is always a remainder of 21. Find the least numbers. (3marks)

3. Evaluate without using mathematical tables of a calculator,

$$\frac{0.0084 \times 1.23 \times 3.5}{2.87 \times 0.056}$$
 expressing your answer as a single fraction. (3marks)

4. Use logarithm to solve tables to evaluate (4 marks)

$$\sqrt[3]{\frac{45.3 \times 0.00697}{0.534}}$$

5. If each interior angle of a regular polygon is  $150^\circ$ , how many sides does the polygon have? (3 marks)

6. Solve for x in the equation

$$32^{(x-3)} \div 8^{(x-4)} = 64 \div 2^x$$
 (3 marks)

7. Use reciprocal table to work out.

$$\frac{7}{0.5283} + \frac{0.5}{3.735}$$

(4marks)

8. Three pens and four exercise books cost sh. 87. Two pens and five exercise books cost sh.93. Find the cost of one pen and one exercise book. (3marks)

9. A Kenyan Company received US dollars 100,000. The money was converted into Kenya Shillings in a bank which buys and sell foreign Currencies as shown below.

	<b>Buying (kshs)</b>	<b>Selling (ksh)</b>
1 US Dollar	77.25	77.44
1 sterling pound	119.93	120

a) Calculate the amount of money in ksh, the Company received. (1mark)

b) The company charged the Kenya shillings calculated above into sterling pounds to buy Car in Britain. Calculate the cost of the car to the nearest sterling pounds.

(2marks)

10. A company saleslady sold goods worth sh. 1,600,000. From this sale she earned a commission of sh. 40,000.

a) Calculate the rate of Commission.

(1mark)

b) If she sold goods whose marked price was sh. 3 600,000 and allowed a discount of 2%, calculate the amount of commission she received. (2marks)

**11.** A piece of metal has a volume of  $20\text{cm}^3$  and a mass of 300g. Calculate the density of the metal in  $\text{kg/m}^3$ . (3marks)

**12.** The area of a sector of a circle of diameter 126cm is  $4158\text{cm}^2$ . Calculate the angle subtended at the centre of the circle. (Take  $\pi = \frac{22}{7}$ ) (3marks)

**13.** Simplify completely by factorization.

(3 marks)

$$\frac{ax + bx + ya + yb}{ma + mb + na + nb}$$

14. Evaluate: 
$$\frac{-12 \div (-3) \times 4 - (-20)}{-6 \times 6 \div 3 + (-6)}$$

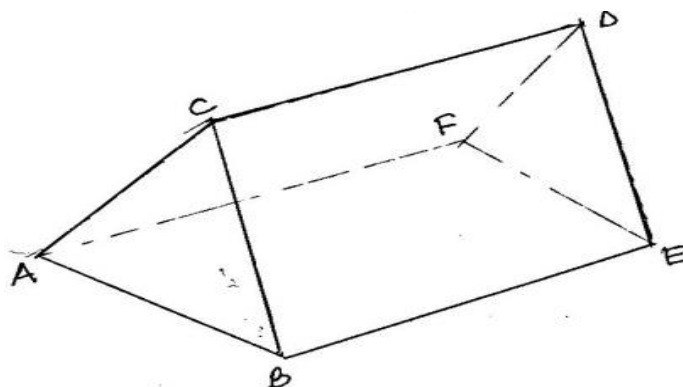
(3 marks)

15. Use the tables of cubes to evaluate:  
marks)

(3

$$(3.461)^3 - \sqrt[3]{2809}$$

16. The figure below is a prism whose cross-section is an equilateral triangle such that  $AB=BC=CA=3\text{cm}$ ,  $BE=CD=AF=5\text{cm}$



Draw the net of the prism

(3marks)

**SECTION II (50 MARKS)**

**Answer five questions only from this section**

17. A line L passes through point  $(-2, 3)$  and  $(-1, 6)$  and is perpendicular to a line P at  $(-1, 6)$

a) Find the equation of L. (3marks)

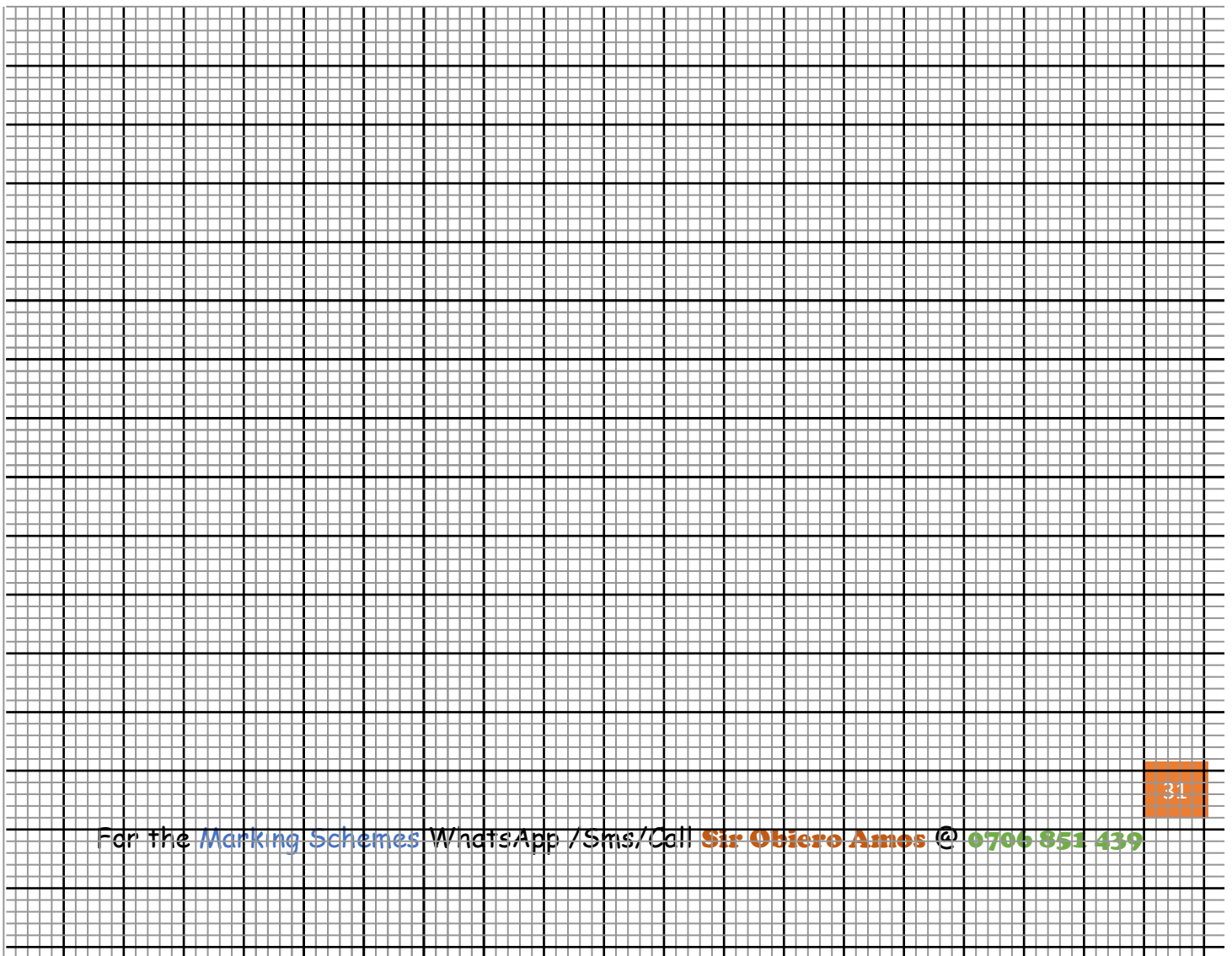
b) Find the equation of P in the form  $ax + by = c$ . (3marks)

c) Given that another line Q is parallel L and passes through point (1, 2), find the x and the y intercepts of line Q. (2marks)

d) Find the point of intersection of lines P and Q. (2marks)

**18.** Triangle PQR has vertices at P(2,3), Q(1,2) and R(4,1), while triangle  $P^1Q^1R^1$  has vertices at  $P^1(-2,3)$ ,  $Q^1(-1,2)$ ,  $R^1(-4,1)$ .

(a) (i) Draw triangle PQR and  $P^1Q^1R^1$  on the grid provided below (2marks)



(ii) Describe fully a single transformation which maps triangle PQR onto triangle  $P^1Q^1R^1$ .  
(1mark)

(b) (i) On the same plane, draw triangle  $P^{11}Q^{11}R^{11}$  the image of PQR, under reflection on line  $y + x = 0$  (2marks)

(ii) Describe fully a single transformation which maps triangle  $P^{11}Q^{11}R^{11}$  onto triangle  $P^1Q^1R^1$ . (1mark)

(c) Draw triangle  $P^{111}Q^{111}R^{111}$  such that it can be mapped onto triangle PQR by a positive quarter turn about the origin (2marks)

(d) State all pairs of triangles that are oppositely congruent (2marks)



**19.** A businessman sold a car at sh.900 000 after allowing his customer a 10% discount on the marked price of the car. In so doing he made a profit of 20%.

a) Calculate

(i) The marked price of the car. (3 marks)

(ii) The price at which the businessman had bought the car (2marks)

b) If the businessman had sold the same car without giving a discount. Calculate the percentage profit he would have made. (3 marks)

c) In the month of December the businessman sold 20 vehicles without giving a discount. Determine the total profit he received from the sale. (2 marks)

**20.** Four towns A, B, C and D are such that town B is 180 km East of A. Town C is at a distance of 120km on a bearing of  $300^\circ$  from B. Town D is due West of C and North Of A.

(a) Using a scale of 1cm to represent 20km, make an accurate scale drawing to show the relative positions of the towns. (4 marks)

(b) Find:

(i) Determine the bearing of C from A (1mark)

(ii) Determine the distance of C from D (2 marks)

(iii) Determine the bearing of B from D (1 mark)

(iv) Determine the distance of A from D (2 marks)

21. The measurements (in metres) of a field were given in a field note book as follows:

Base line XY = 240m

To Q 60	Y	50 to P	
	150		
	120		20 to M
	50		
	X		

(a) Using a scale of 1 cm to represent 20 m, draw an accurate map of the farm. (4 marks)

(b) **Find** the area of the field in hectares.

(4marks)

(c) If the farm is on sale at sh. 900 000 per hectare, find how much the farm costs.

(2 marks)

**22.** Triangle ABC is such that  $AB = 7\text{cm}$ , angle  $ABC = 120^\circ$  and angle  $BAC = 30^\circ$ .

(a) Using a ruler and a pair of compass only, construct triangle ABC.

(3 marks)

(b) Measure the length of:

(i) Line BC

(1 mark)

(ii) Line BC

(1 mark)

(c) Drop a perpendicular from C to meet line AB extended at M.

(2 marks)

(d) Measure the length of line CM

(1 mark)

(e) Calculate the area of triangle ABC

(2 marks)

**23.** A hollow metal pipe whose internal and external and internal diameters are 6.3cm and 2.8cm respectively is 3.5m long.

(a) Calculate the volume of the metal used to make the pipe.

(4 marks)

(b) The pipe is melted down and recast into a solid cylinder of height 1.75m. Calculate the radius of the cylinder to two decimal places.

(4 marks)

(c) Given that the density of the metal above is  $4.2\text{g/cm}^3$ , calculate the mass of the solid cylinder in kilograms. (2 marks)

**24.** Three business people Kamau, Gachui and Maina agreed to contribute Kshs. 1 210 000 to start a business. The ratio of Kamau's contribution to Gachui's contribution is 3 : 2 while that of Gachui to Maina is 1 : 3.

(a) Determine the ratio of Kamau's contribution to Maina's contribution. (2 marks)

(b) Determine the amount of money contributed by Kamau (2 marks)

(c) They agreed to share their profits as follows;

50% to be shared in the ratio of their contributions

40% to be retained for the running of the business

10% to be set aside for emergencies

If their total profit for the year 2014 was sh.704 000, determine the

(i) Amount of money retained for running the business. (2 marks)

(ii) The amount of money set aside for emergencies. (2 marks)

(iii) The amount of received by Gachui

(2 marks)

NAME:

\_\_\_\_\_ CLASS: \_\_\_\_\_

ADM NO: \_\_\_\_\_

DATE: \_\_\_\_\_

ENGLISH

TIME: 2½HRS

END OF TERM ONE EXAMINATION

ENGLISH FORM 2

TIME: 2½HOURS

**INSTRUCTIONS TO CANDIDATES**

- 1. Write your details in the spaces provided above.
- 2. Answer all the questions in this paper.
- 3. Answer the questions in English

**EXAMINER’S USE ONLY**

QUESTION	MARKS	CANDIDATE’S SCORE
1	20	
2	10	
3	20	
4	30	
5	20	
<b>TOTAL</b>	<b>100</b>	

**1. COMPOSITION (20MKS)**

Imagine that your uncle’s family is travelling to Mombasa for weekend; and you have been invited to accompany them. Write a letter to your uncle accepting the invitation.

**2. CLOZE TEST (10MKS)**

***Fill in the blank spaces with the most appropriate word***

It was about one and .....1.....half years since the emergency had .....2.....declared in the Mt. Kenya Reserve. The situation had .....3.....worse in the Rift Valley also. The Great Sweep had followed the emergency. Every Kikuyu, Embu and Meru as the passbooks disclosed, had his or .....4.....movements controlled. This, however, was done whether one was .....5.....or not. Those who were guilty of aiding the Mau Mau movement .....6.....being swept from all over the country and taken back to the central province. It was like herding the cattle back into .....7.....boma because they had broken through it.

Soon after the declaration of the emergency, only a few .....8.....or women had been caught and detained. Nevertheless, this had not .....9.....the Mau Mau movement. The tirest fighters had become even tougher. It was their .....10.....they were fighting for and had sworn to fight the intruder to the end.

### 3. COMPREHENSION (20MRKS)

Read the passage below and answer the questions that follow

#### **Let us do away with gender-defined roles**

When God made women out of man according to the Biblical story of creation), He did not restrict her from doing certain types of jobs, nor did He forbid man from doing any kind of chores. The only problem with us today is that we think like those who lived in an age where men’s roles and women’s roles were clearly specified.

Consequently, it is rare to find a man at home doing chores like washing the dishes, preparing supper for the family or even cleaning the house while the women of the house sits to watch the news or a programme she enjoys on television. This mindset has also been passed down to children, where you will find a girl working tirelessly around the house while her brother is comfortably stretched out on the sofa watching a movie. Why can’t we train our children to do what needs to be done irrespective of their gender?

Personally, I was brought up in a home where chores are divided equally among those present, and no amount of protesting could exonerate me from my assigned chores, which is why I find this gender sensitivity somewhat discriminative. I once broached the issue of sharing chores with a friend of mine and his reaction was unpredictable, “You expect me to cook, wash the dishes, clean the house and look after the baby? These are things I can’t do no matter how much I love her! My job is to put food on the table and secure our children’s future,” he responded passionately. These are biases so deeply ingrained that it seems odd if a man tells you that he is a nurse. The question that naturally comes to mind will be, “Isn’t that a woman’s job?” because you expect a nurse to be a woman in a pretty white or small striped dress and a white cap. However, the truth is that men are just as capable of providing nursing care as their female counterparts.

And turning to politics, how many of our constituencies have female representatives in parliament? Just a handful. And how many countries in the world have women presidents or prime ministers? Another handful. Many women have joined politics hoping to succeed where men have failed but quit after being frustrated by men’s obvious lack of trust in their abilities. But from those who have persevered, we can see



that women do better than men since they start this from the basic level of the home, where they take care of their families and do everything to keep them going.

Another very peculiar field is football. Fans flock pubs to watch male players juggle the ball and make their fancy moves and sometimes fights erupt after heated arguments about football games like the World Cup, premier League and other tournaments. But I have never heard people fight over the Women’s World Cup or anybody disappointed after a women’s team he supports took a thrashing from an opponent.

Careers like engineering have also been affected by this negative trend. It is getting increasingly rare to find a woman in overalls lying under a heavy truck checking for engine trouble or repairing the brakes. This is considered a man’s job and many people believe a woman cannot do it properly.

I believe is it time we got rid of these outdated beliefs and started appreciating women for who they are. We should give them a chance to prove themselves and open up more opportunities for them. Men should also realize that to do perfectly, one requires brain, not brawn, and if this continues, it will do more harm than good. Besides, what a man can do, a woman can do, sometimes even better. Giving women an opportunity, will create a balance and bring out the best in everyone.

(Adapted from: *Daily Nation* 24<sup>th</sup>February 2010, *Living Magazine* page 2-Gichuru Hebson)

### Questions

a) According to the passage, what seems to cause conflicts in gender roles today? (1mk)  
.....  
.....

b) What is the author’s opinion of defined gender roles (1mk)  
.....  
.....

c) How has his upbringing contributed to this opinion? (1mk)  
.....  
.....

d) Make notes on duties of men and women as brought out in the passage (5mks)  
.....  
.....  
.....  
.....  
.....

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

e) Identify any three careers that are considered male dominated in our society today (3mks)

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

f) In your opinion, should there be gender defined duties for boys and girls? (2mks)

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

g) According to the passage, what should be done to get rid of the outdated practice of defined gender roles?

(3mks)

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

h) Explain the meaning of the following words as used in the passage. (4mks)

i. Exonerated

.....

ii. Ingrained

.....

iii. Peculiar

.....

iv. Brawn

.....

4. ORAL SKILLS (30MKS)

a) *Choose the correct words to fill the blanks*

(6mks)

- i. The beautiful lady with shinny .....named Nora as her ..... (hare, heir, hair)
- ii. If Peter lets the bird ....., he might .....it forever. (Lose, loose, loss)
- iii. When you .....too quickly, you could run out of ..... (breath, breadth, breathe)
- iv. The young farmers keep .....for their .....farming. (diary, daily, dairy)
- v. The tailor bought a .....to make a .....for the beautiful girl. (Clothe, cloth, clothes)
- vi. They.....the cattle in the .....cattle .....(deep, dipped, dip)

**b) Use the following words to construct two sentences. (4mks)**

One as a noun and the other on its verb form

- i. Project  
.....  
.....
- ii. Air  
.....  
.....

**c) Identify the silent letters in the following words (5mks)**

- i. Fascinate
- ii. Wrist
- iii. Slaughter
- iv. Handkerchief
- v. Fasten

**d) Indicate the correct intonation for the following sentences (3mks)**

- i. Can I take you home?  
.....
- ii. How did she travel to Nairobi?  
.....
- iii. I have been working very hard for the coming examination.

.....  
e) Pick the odd one out according to the pronunciation of words in each group in reference to the letters underlined (2mks)

Charade                  Church                  Chauffeur                  Chasis

.....  
Axe                          Xenon                          Tax                          Maximum  
.....

f) Read the poem below and answer the questions that (10mks)

I had a dream last night I dreamt.  
I had to pick a mother out.  
I had to pick a father too.  
At first, I wondered what to do,  
There were so many there, it seemed,  
Short and tall and thin and short.  
  
But just before I sprang a wake,  
I knew what parent I would take.  
  
And this surprised and made me glad,  
They were the ones I always had.

**Questions**

a) Describe the rhyme scheme of the above poem. (2mks)

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

b) Apart from rhyme identify three aspects of style based on pronunciation. (3mks)

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

c) Which words would you stress in line 7 and why? (3mks)

.....

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

d) How would you say the last line of the poem (2mks)

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

5. GRAMMAR (20MKS)

a) Rewrite the following sentences according to the instructions given in brackets.

(3mks)

i. My sister cooked lunch at two o'clock (Begin: Lunch...)

.....

ii. The child saw a Lion in the forest (change into the negative)

.....

iii. There were dresses of girls in the shop (Use the possessive noun)

.....

b) Fill in the blank spaces with an appropriate preposition

(3mks)

i. There was a snake .....the hole.

ii. We went to Mombasa .....air.

iii. ....rearing livestock, Musa also keeps fish.

c) Complete the sentences below using an appropriate form of the word given in brackets.

(4mks)

i. The sick girl looked .....(help)

ii. The village was .....(access) due to the bad roads.

iii. His poor .....(pronounce) affected his delivery of the acceptance speech.

iv. Such an .....(occur) would scare the people.

d) Punctuate the following sentences.

(2mks)

i. watch out there is a speeding car

.....

ii. if it rains we will not travel James noted

.....

e) Fill in each gap in the following sentences with the progressive form of the verb in brackets

(2mks)

- i. The men .....(argue) on top of their voices.
- ii. My family .....(plan) to have a holiday at the coast in August.

f) Fill in the blank spaces with the correct form of the adjectives given in brackets

(3mks)

- i. Njoki is the .....(bright) of her two friends.
- ii. This flower is .....(pretty) than that one.
- iii. Biashara market is the .....(far) of all the markets you have mentioned.

g) Use an appropriate quantifier phrase to complete the sentences below. (3mks)

- i. ....money was spent in constructing the railway line.
- ii. ....people attended the rally.
- iii. Serve me .....juice, please.

CHETI CHA KUHITIMU ELIMU YA SEKONDARI TATHMINI YA PAMOJA

TATHIMINI YA PAMOJA

JINA: .....

NAMBANI YAKO:.....

SAHIHI:.....

TAREHE:.....

MACHI/APRILI

MUDA: SAA 2½

CHETI CHA KU HITIMU ELIMU YA SEKONDARI

KISWAHILI KIDATO CHA PILI

MWISHO WA MUHULA WA KWANZA

MUDAL SAA 2½

**MAAGIZO**

✓ JIBU MASWALI YOTE KWENYE NAFASI ULIZOACHIWA

**KWA MATUMIZI YA MUTAHINI PEKEE**

SWALI	UPEO	ALAMA
INSHA	20	
UFAHAMU	15	
MATUMIZI YA LUGHA	35	
ISIMU JAMII	10	
FASIHI	20	
JUMLA	100	

**SEHEMU A: INSHA (ALAMA 20)**

**Andika insha ifuatayo kwa kutumia maneno yasiyopungua 300**

Wewe ni mkurugenzi wa elimu katika kaunti yako. Umealikwa katika kongamano la wanafunzi linalohusiana na tatito la upataji mimba baina ya wanafunzi katika shule za msingi na sekondari. Andika hotuba yako kwa wanafunzi hao huku ukieleza sababu zinazosababisha tatito hilo na jinsi ya kulitatua.

A series of horizontal dotted lines for writing.



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**SEHEMU B: UFAHAMU (ALAMA 15)**

*Soma kifungu kifuatacho kisha ujibu maswali*

Idara ya polisi nchini imelaumiwa kwa muda mrefu kutokana na visa vya mauaji ya kiholela, utepetevu na uufisadi miongoni mwao. Ni kutokana na kilio cha mwananchi pamoja na mashirika yasiyo ya kiserikali ambapo serikali imejitolea sabili kubadili hali katika idara hiyo huku tume mbali mbali zilizobuniwa zikitoa mapendekezo muhimu ya kurekebisha ishara hiyo. Matokeo ya hivi punde kutoka kwa shirika la 'Transparency International' liliorodhesha idara ya polisi kama idara fisadi zaidi nchini, maoni ambayo yalisisitizwa na shirika la kutetea haki za kibinadamu. Uufisadi bado umekita mizizi katika idara ya polisi kama idara fisadi zaidi nchini, maoni ambayo yalisisitizwa na shirika la kutetea haki za kibinadamu. Uufisadi bado umekita mizizi katika idara ya polisi tangu mabadiliko yaanze upande wa trafiki na hata ndani ya polisi.

Serikali imejitolea kupambana na uufisadi unaoonekana kuwa kidonda ndugu katika idara ya polisi. Wananchi wanasema kuwa polisi ni mafisadi na kusahau kuwa uufisadi unashirikisha watu wawili na wote wanapaswa kufunguliwa mashtaka. Ili kuleta mabadiliko muhimu katika idara ya polisi, mapendekezo yote

pamoja naya tume zingine za hapo awali lazima yatekelezwe kwa mujibu wa katiba mpya. Lazima mabadiliko yaanzie juu kwani maafisa wadogo hulazimishwa kuchukua hongo ili wapelekee wakubwa wao. Ni lazima shughuli ya kuwachagua maafisa walio bora ifanyike kisheria ili mabadiliko yaanze kutoka kwa wakuu na maafisa wa polisi.

Polisi kidogo wameweza kubadili ile lugha yao ya matusi na ukali kwa raia. Raia naohawajabadilika. Wengi wao bado huwaogopa polisi na itachukua muda kwani wanadhania kuwa kikosi ni kile kile cha kitambo. Kwa upande wa polisi, hakuna mageuzi yamefanyika. Unaposafiri kuja mjini, polisi wangali wanachukua hongo kutoka kwa wenye matatu na kuwaruhusu kubeba kupita kiasi pia usalama umedorora sana kwani kumekuwa na visa vingi vya mauaji hapa mjini. Ukiangalia maafisa wa polisi, hakuna mageuzi makubwa yameshuhudiwa haswa kwa upande wa polisi, hakuna mageuzi makubwa yameshuhudiwa haswa kwa upande wa maafisa wa trafiki. Bado ni wale wale na ufisadi ungali upo.

Mabadiliko ambayo tunataka ni kuwa polisi wasikae mahali kwa muda hadi wanajuana na mafisadi na majambazi. Maafisa wa polisi wanafaa kuhudumu katika kituo kimoja kwa muda usiozidi miaka mitatu. Kwa kufuata njia hiyo mabadiliko yatapatikana. Juhudi nyingi zikielekezwa katika kubadili kikosi cha polisi wananchi wanapaswa kuhamasishwa ili nao waweze kubadilika haswa kuhusiana na mtazamo wao kwa maafisa wa polisi. Huku tukijaribu kubadili maafisa wa polisi, wananchi pia wanapaswa kuelimishwa ili waweze kubadili mtazamo wao kuhusu maafisa hao. Ni bayana kuwa ili kuweza kuleta mabadiliko ya kutamanika katika kikosi cha polisi na haswa katika kupambana na ufisadi uliokita mizizi wananchi sawia na maafisa wa polisi wana jukumu la pamoja kuleta mabadiliko hayo yatakayopelekea kuwepo kwa mlahaja mzuri kati ya maafisa wa polisi na raia. Hatimaye, kuwepo kwa huduma bora itakayochangia pakubwa kuboresha uchumi wa taifa na kuafikiwa kwa ruwaza ya mwaka 2030.

**Maswali**

- a) Kipe kifungu hiki kichwa mwafaka (alama 1)  
.....  
.....
- b) Thibitisha kuwa ufisadi ni kidonda ndugu ukirejelea makala haya (alama 2)  
.....  
.....  
.....
- c) Ni vipi ufisadi katika idara ya polisi unaweza kuzikwa katika kaburi la sahai? (alama 2)

.....  
.....  
.....  
d) Wananchi ndio wanapaswa kulaumiwa kwa ufidia. Thibitisha (alama 2)

.....  
.....  
.....  
e) 'Serikali imepiga hatua katika kuleta mabadiliko katika idara ya polisi'. Onyesha kinyume cha usemi huu. (alama 2)

.....  
.....  
.....  
f) Taja manufaa yoyote mawili yanayotokana na mabadiliko katika idara ya polisi (alama 2)

.....  
g) Eleza maana ya; (alama 4)

i) Mlahaka

.....  
ii) Utepetevu

.....  
iii) Kujitolea sabili

.....  
iv) Hongo

.....  
**SEHEMU C – MATUMIZI YA LUGHA**

a) i) Taja sauti zozote mbili zinazotamkiwa kwenye kaaka gumu (alama 2)

.....  
.....  
ii) Huku ukitolea mfano, eleza aina mbili za miundo ya silabi katika Kiswahili (alama 2)

.....  
.....  
b) Weka maneno yafuatayo katika ngeli zifaazo: (alama 2)

i) Ukuta .....

ii) Kibogoyo .....

c) Tunga sentensi ukitumia aina ya nomino zifuatazo;

i) Dhahania (alama 1)

.....

ii) Za wingi (alama 1)

.....

d) Tumia neno vibaya kama: (alama 3)

i) Kivumishi

.....

ii) Kielezi

.....

iii) Kiwakilishi

.....

e) Ainisha vitenzi katika sentensi ifuatayo: (alama 2)

Juma alikuwa akienda kulima

f) Andika kwa hali timilifu (alama 2)

Mwalimu alikuwa hapa tangu asubuhi

.....

g) Ainisha maneno katika sentensi ifuatayo:

Ala! yeye ni kiongozi mkuu mjini? (alama 3)

h) Onyesha viambishi awali na viambishi tamati katika neno lifuatalo: (alama 2)

Walichotupigia

i) Akifisha (alama 3)

mama aliwauliza nyinyi ndio mlituletea sahani vijoki na sufuria

j) Andika kwa wingi (alama 2)

Kibogoyo huyu ndiye aliyenipatia jiko hili.

k) Kanusha (alama 2)

Akiingia atamnunulia samaki wengi

l) Andika kinyume cha sentensi ifuatayo (alama 3)

Mahindi ya mama yamekua kwa kupata mvua ya kutosha

m) Andika udogo wa sentensi ifuatayo: (alama 2)

Mbwa aliyemwuuma mtoto ameuawa

n) Kamilisha sentensi zifuatazo kwa kutumia vitenzi na kauli zilizo mabanoni: (alama 2)

i) Kaka alim.....dadake (Kimbia-tendesha) (alama 1)

ii) Pesa alizo .....hazikutosha (leta-tendewa) (alama 1)

o) Andika msemu mwingine wenye maana sawa na 'piga maji' (alama 2)

#### SHEMU D – ISIMU JAMII

i) Eleza sababu mbili ambazo zinaweza kufanya lugha kufa/kufifia (alama 2)

.....

.....

.....

.....

ii) Taja sifa zozote nne za sajili ya siasa

(alama 8)

.....

.....

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.....

**SEHEMU E –FASIHI SIMULIZI**

a) i) Taja majukumu yoyote matano ya fasihi simulizi

(alama 5)

.....

.....

.....

.....

.....

.....

.....

ii) Fasihi simulizi huendelezwaje leo? Taja namna tatu

(alama 3)

.....

.....

.....

b) Eleza maana ya dhana zifuatazo katika fasihi simulizi

(alama 8)

i) Ulumbi

.....

.....

ii) Ngomezi

.....

.....

iii) Lakabu

.....

.....

iv) Misimu

.....  
.....

c) Taja sifa zozote nne za mlumbi

(alama 4)

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

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

SCHOOL ..... STUDENTS SIGN.....

DATE :.....

FORM TWO

PHYSICS 232

END OF TERM ONE EXAMINATION

TIME : 2 ½ HOURS

INTRODUCTIONS TO CANDIDATES

Write your name, Admission number and school

- Write your name, Admission number, in the spaces provide.
- This paper consists of TWO sections: A and B
- Answer ALL questions in section A and B in the spaces provided.
- ALL working MUST be clearly shown.
- Mathematical tables and electronic calculators may be used.

FOR EXAMINERS USE ONLY

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATES SCORE
A	1-25	50MKS	
B	26	07	
	27	06	
	28	08	
	29	07	
	30	08	
	31	06	
	32	08	



SECTION 1ANSWER ALL QUESTIONS (50MKS)

1. The figure 1 below shows a micrometer screw gauge used to measure the diameter of a piece of wire.

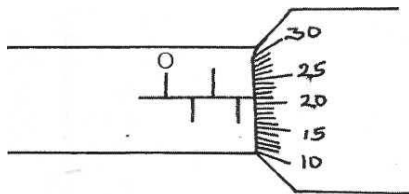


Figure 1

- i. Determine the reading on the scale of the micrometer screw gauge (2mks)
- ii. If the micrometer screw gauge has an error such that if the jaws are closed without any object, it reads 0.04mm below the centre line of the sleeve, determining the actual cross sections area of the of wire. (2mks)
2. Distinguish between heat and temperature. (2mks)

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

3. State one disadvantage of using a pin hole camera to take photographs (1mk)

.....

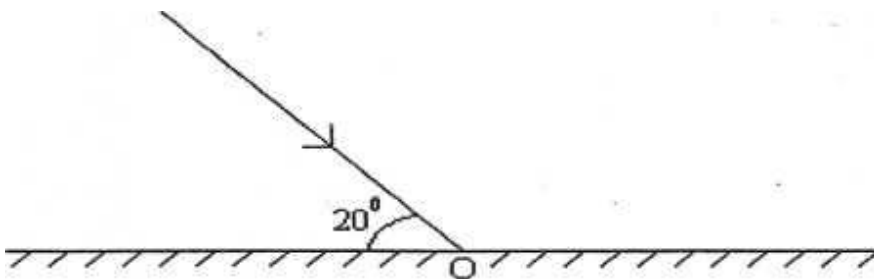
4. In an oil drop experiment a student estimated the diameter of the oil patch to be 0.16m, given that the volume of the oil drop was  $0.048\text{cm}^3$ .

i. Determine the thickness of the oil patch

ii. State an assumption made in the above calculations (1mk)

.....

5. A ray of light makes an angle of  $20^\circ$  with a plane mirror as shown in figure 2 below.

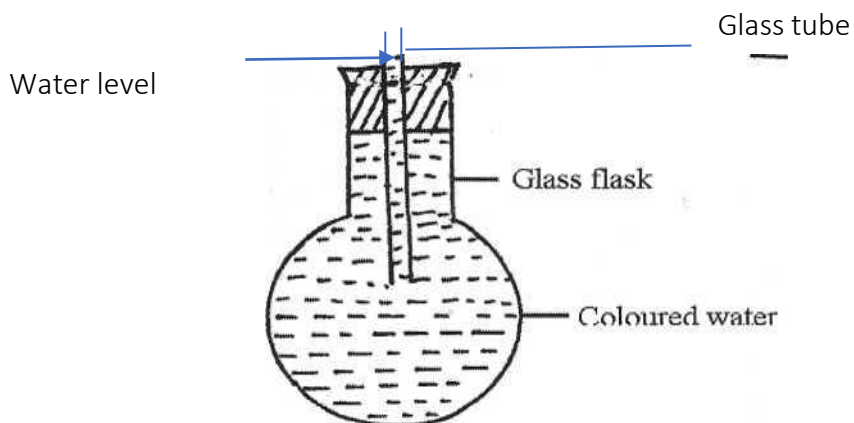


Determine the angle of reflection (2mks)

6. Give a reason why fuel tanks of Kenya Pipeline Company are silvery painted (1mk)

.....

7. The figure 3 below shows a flask filled with coloured water. The rubber cork is pushed in until the in water rises a short distance in the glass tube.



State and explain what is observed when the flask is placed in a hot water bath (2mks)

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

8. Two identical sphered A and B each standing on an insulating base are in contact. A negatively charged rod is brought near sphere A as shown in figure 4

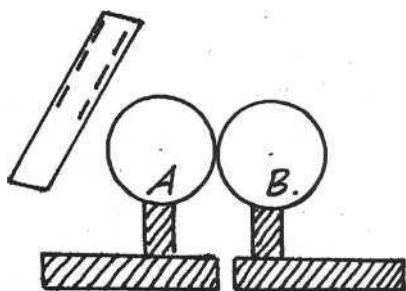


Figure 4

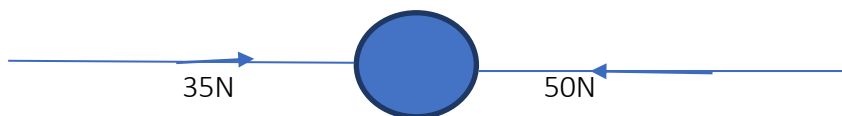
State and explain the charged acquired by A and B (2mks)

.....  
.....

.....  
.....

9. Sketch a diagram to show the direction and magnitude of the resultant force for two forces acting as shown in figure 5 below

(1mk)



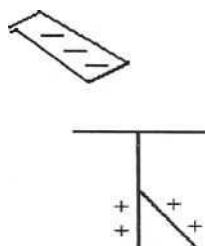
10. In an experiment to demonstrate Brownian motion, smoke was placed in an air cell and observed under a microscope. Explain the observation. (2mks)

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

11. What property of light is illustrated by formation of shadows? (1mk)

.....  
.....

12. State and explain the observation on the leaf of a positively charged when a negative charge is brought close to cap as shown in figure below. (2mks)



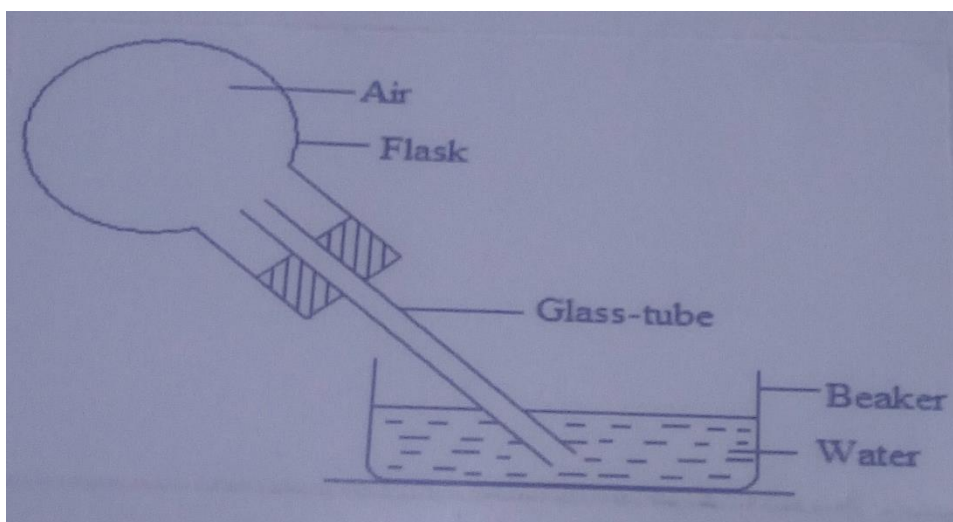
.....  
.....  
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13. Suggest a reason why a person who has lost one leg is provided with crutches.

(1mk)

.....  
.....

14. Figure 7 below shows a flask with a glass tube dipped into a beaker containing water at room temperature. The cork fixing the glass tube is tight.



State with reason what would be observed if cold water is poured on to the flask (2mks)

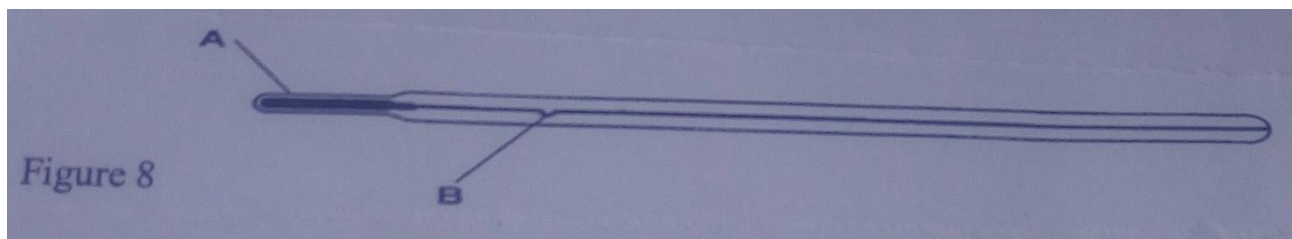
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15. i) Convert  $27^{\circ}\text{C}$  TO Kelvin (1mk)

ii) What is meant by absolute zero temperature? (1mk)

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

16. Figure 8 shows a clinical thermometer which is not graduated



- a) Name the parts indicate with letters: A and B (2mks)  
A .....  
B .....
- b) Mark the appropriate scale range in degrees Celsius (2mks)

17. The reading on a mercury barometer at Mombasa is 760mm. Calculate the pressure at Mombasa. (Density of mercury is  $1.36 \times 10^4 \text{Kg m}^{-3}$ ) (3mks)

18. Name two advantages which a lead accumulator has over a dry cell (2mks)

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.....

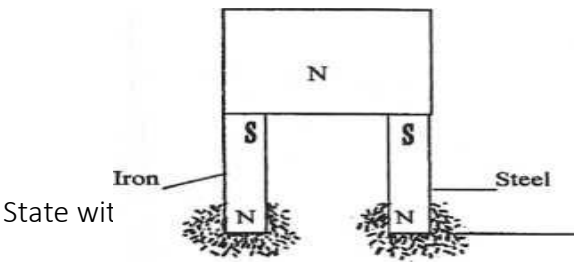
19. A girl observed her in a concave mirror of a focal length 90cm. If the mirror is 70cm away. State two characteristics of the image observed. (2mks)

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20. Why is topping of an accumulator done with distilled water and not sulphuric acid? (1mk)

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21. The figure 9 below shows iron and steel rods placed in contact with a magnet.



State with what polarity the magnet is removed from the rods (2mks)

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22. Why is concave mirrors used as a saloon mirror? (1mk)

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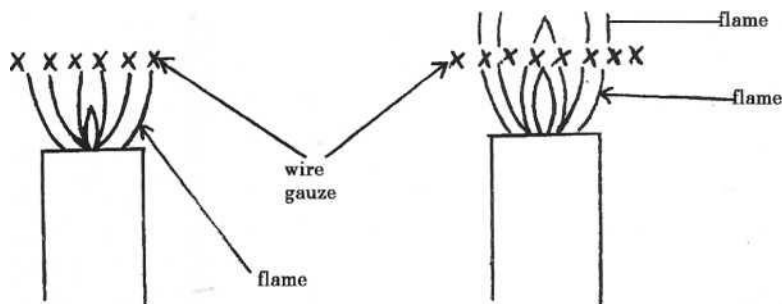
23. An old man warming himself next to a Jiko received heat mostly by radiation. Explain why. (2mks)

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24. You are provided with two iron bars M and N one is magnetized and the other is not. Explain how you would identify the magnetized bar. (2mks)

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25. When a Bunsen burner is lit below wire gauze, it is noted that the flame initially burns below the gauze as shown in the figure below. After sometimes the flame burns below as well as shown in the figure below. After sometime the flame burns below as well as above the gauze.



Explain this observation

(2mks)

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**SECTION B (50MKS)**

Answer all questions in this section in the spaces provided

26. a) The water level in a burette is  $27\text{cm}^3$ . If 88 drops of water fall from the burette and the average volume of one drop is  $0.25\text{cm}^3$ . what is the final water level in the burette? (2mks)

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

Mass of empty density bottle = 38.3g

Mass of density bottle of water = 64.7g

Mass of density bottle with some sand = 66.6g

Mass of density bottle with sand filled up with water = 84.2g



Take density of water as  $1\text{g/cm}^3$

Use the above data to determine the:

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

b) Volume of water that completely filled the bottle (2mks)

c) Volume of the density bottle (1mk)

d) Mass of sand (1mk)

27. a) One of the factors that affect the surface tension of a liquid is the presence of impurities. State the other factor. (1mks)

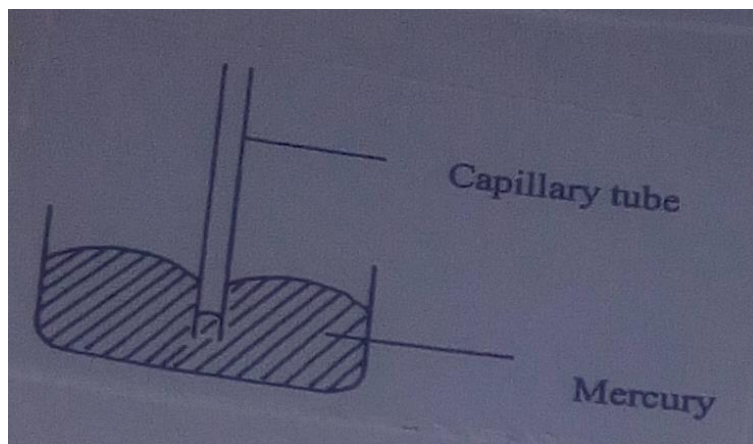
.....

b) A solid weighs 20.5N on the surface of the moon. The force of gravity on the moon is  $1.86\text{Nkg}^{-1}$ . Determine the mass of the solid (3mks)

c) State the reason why wick lamps are usually made of cotton (1mk)

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.....

d) The diagram below shows the behavior of mercury in a capillary tube. Explain the behaviour (1mk)



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.....

28. a) Use simple sketches to show the three states of equilibrium

Name the states

(3mks)

(i)

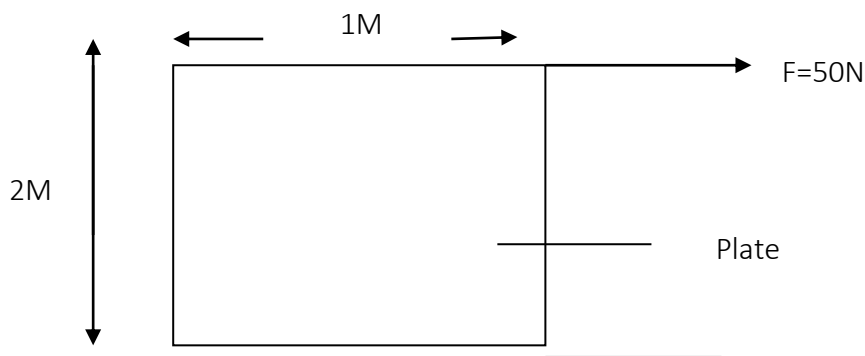
(ii)

(iii)

b) Kathurima was carrying a heavy luggage using one hand. It was observed that she leans away from the luggage. Explain this observation. (2mks)

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c) The figure 8 below shows a metal plate 2m long, 1m wide and negligible thickness. A horizontal force of 50 N is applied at point A just makes the plate tilt.



Calculate the weight of the plate

(3mks)

29. a) i) Define the term pressure and state its SI units

(1mk)

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.....

ii) It is not possible to use a drinking straw in a vacuum. Explain

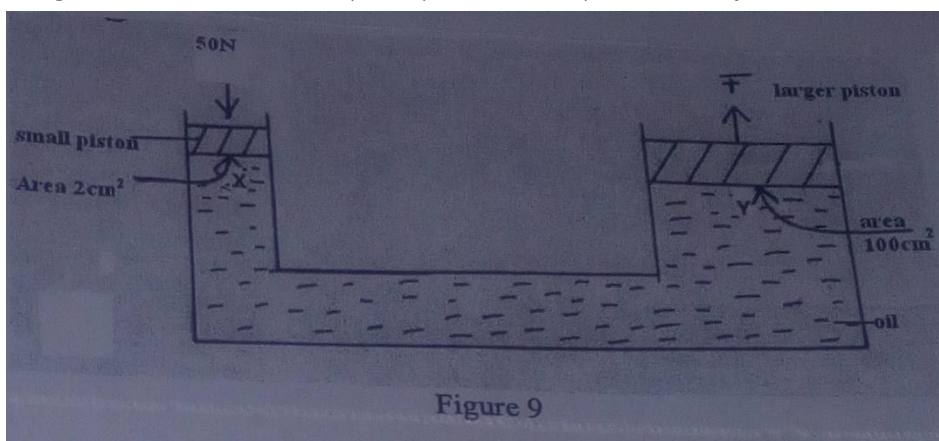
(1mk)

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.....

b) Explain why brakes fail in hydraulic braking system when air gets into the system. (1mk)

.....  
.....

c) The diagram below shows the principles of the hydraulic car jack



i. If a force of 50N is applied to the smaller piston; calculate the pressure produced in the oil at X (2mks)

ii. Determine the force produced at larger piston Y

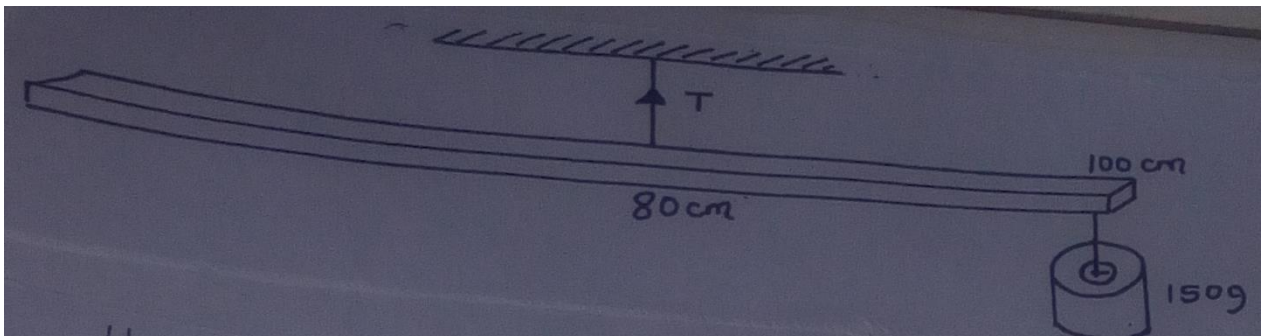
(2mks)

30. a) State the principle of moments

(1mk)

.....  
.....

b) A uniform metre rule of uniform width 2.5cm and thickness 0.5cm. Figure 10 below, is suspended at the 80cm mark and kept balanced by hanging a mass of 150g at 100cm mark.



Calculate;

i. The mass of the metre rule

(2mks)

ii. The density of the material of the metre rule

(2mks)

c) Explain why it is easier to loosen a nut using a spanner that has a longer arm than a shorter arm

(2mks)

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.....

d) On what principle does a bottle opener work on?

(1mk)

.....

.....

31. a) State the basic law of magnetism

(1mk)

.....

.....

b) Explain why repulsion between two ends of magnets is the only sure test of polarity.

(2mks)

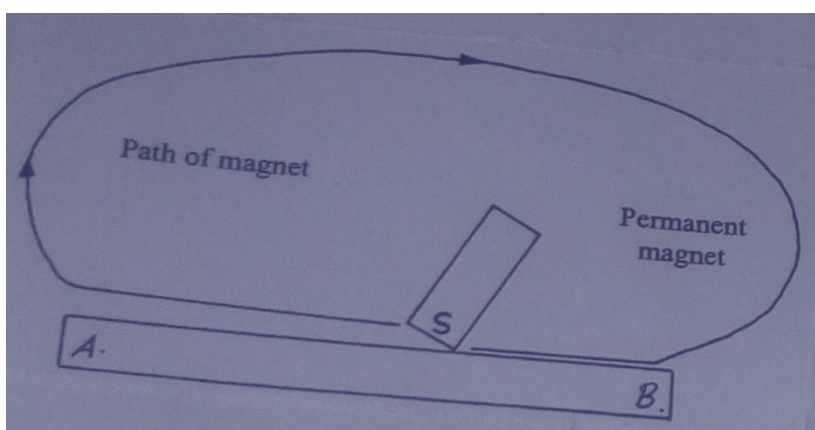
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c) Figure 11 below shows a method of magnetization



Ferromagnetic material is being magnetized, what pole is acquired by the pole at B?

(1mk)

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d) You are provided with two iron bars X and Y one is magnetized and the other is not. Explain how you would identify the magnetized bar. (2mks)

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32. i) Other than local action, state another defect of a simple cell and explain how it reduces the current product. (2mks)

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.....

ii) Explain why light in a classroom are wired in parallel and not in series? (2mks)

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iii) State the purpose of Manganese (IV) oxide in a dry cell (1mk)

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iv) A current of 0.5A flows in a circuit. Determine the quantity of charge that crosses a point in 2 minutes (3mks)

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.....

NAME.....ADM NO..... DATE.....

GEOGRAPHY:312

FORM TWO

TIME:2 1/2 HOURS

INSTRUCTION TO STUDENTS

Write your name and admission number in the spaces provided above.



Attempt all questions

All your answers must be written in the spaces provided below each question.

a) Define Geography (1mk)

.....  
.....

b) Draw a well labeled diagram to show the centrality of geography (4mks)

2. a) Give two reasons for the shape of the Earth (2mks)

b) State three characteristics of sedimentary rocks (3mks)

3. a) What is the longitude of city Y whose local time is 8.00am, when the local time at green which meridian  $0^{\circ}$  is 12.00 noon? (2mks)

b) Give three characteristics of the Inner core of the earth (3mks)

4. (a). (i) Differentiate between faulting and folding. (2mks)

(ii) Draw a well labeled diagram to show the parts of a normal fault. (5mks)

(b) (i) Describes the formation of Rift Valley by tensional forces by use of well labeled diagram. (7 marks)

(ii) Explain three significance of vulcanicity to Human activities. (6mks)

5a (i) differentiate between weather and climate. (2mks)

(ii) Explain four factors that influence climate. (8mks)

b) Explain two effects of climate change on the physical environment. (4mks)

6. Study the map of Kitale provided below and answer the questions that follow:-

a) i) Convert the linear scale on the map into a representative fraction (show your working)  
(3mks)

ii) Name the districts covered in the map (3mks)

iii) Calculate the area covered by Kitale township (2mks)

b) i) What is ITCZ? (2mks)

ii) State four characteristics of the Equatorial climate (4mks)

c) You are to carry out a field study in the Rift Valley

i) Outline your preparation (4mks)

ii) What three other fault features would you study besides the rift valley. (3mks)

iii) State one hypothesis of your study (1mk)

iv) Give three follow up activities you would carry out (3mks)

7. a (i) Differentiate between direction and bearing. (2mks)

ii) State two traditional methods used to show direction on maps. (2mks)

b (i) Explain four uses of maps. (4mks)

(ii) State three marginal information a good map must have. (3mks)

c) List three ways used to locate places on a map. (3mks)

8 a (i) Define photograph. (2mks)

iii) State 3 types of ground photographs. (3mks)

b (i) List three types of graphs used for statistical presentation. (3mks)

(ii) Explain two advantages of comparative line graph. (2mks)

iii) Explain two disadvantages of a comparative bar graph.

(2mks)

NAME: \_\_\_\_\_ ADM

NO.: \_\_\_\_\_

CLASS: \_\_\_\_\_ DATE: \_\_\_\_\_

SIGNATURE:

\_\_\_\_\_

FORM 2  
HISTORY AND GOVERNMENT  
END OF TERM 1  
TIE: 2½HRS

### END OF TERM ONE EXAMINATION

FORM 2  
HISTORY AND GOVERNMENT  
TIME: 2½HRS

#### INSTRUCTIONS

2. The paper consist of Three sections A, B and C
3. Answer all the questions in section A.
4. Answer only Three questions from Section B
5. Answer only Two questions from section C.

#### SECTION A (25MKS)

Answer all the questions in this section.

1. Define political history (1mk)

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2. Identify two historical sites in Ethiopia (2mks)

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- .....
3. State one reason why early agriculture was carried out along viler valleys (1mk)
- .....
4. Identify two theories of the origin of agriculture (2mks)
- .....
- .....
5. Identify the dispersal point of the Luo. (1mk)
- .....
6. State two economic activities of the Mijikenda during the pre-colonial period. (2mks)
- .....
- .....
7. State the main basic political unit among the cushite (1mk)
- .....
8. Identify two written sources of information on East African coast during the pre-colonial period. (2mks)
- .....
- .....
9. Name one Arab family used in ruling of the East Coast of Africa (1mk)
- .....
10. Define the term dual citizenship (1mk)
- .....
11. State two levels of conflict (2msk)
- .....
- .....
12. State the reason why barter trade is called silent trade (1mk)
- .....
13. State two roles of the Tuaregs (2mks)
- .....
- .....
14. Identify two vehicles without wheels (2mks)
- .....



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15. State one negative effect of road transport (1mk)

.....  
16. Identify two disadvantages of the use of fire and smoke signals as a form of communication (2mks)

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.....  
17. State one example of print media (1mk)

**SECTION B (45MKS)**

***Answer three questions from this section***

18. a) State three forms of government (3mks)

b) Explain six importances of studying history in Kenyan schools (12mks)

19. a) Identify three factors for the development of trade (3mks)

b) Explain six challenges faced by the Trans Saharan traders (12mks)

20. a) State five disadvantages of animal transport (5mks)

b) Explain five social effects of modern forms of transport (10mks)

21. a) State three advantages of telecommunication (3mks)

b) Explain six negative impacts of modern means of communication (12mks)

**SECTION C (30MKS)**

***Answer only two questions from this section.***

22. a) State three circumstances that may lead to revocation of citizenship by birth. (3mks)

b) Explain six limitations of the right to life (12mks)

23. a) State three importance of national integration (3mks)

b) Explain six peaceful methods of resolving conflicts (12mks)

24. a) State three reasons why Seyyid Said transferred his capital from Muscat to Zanzibar in 1840 (3mks)

b) Explain six factors that favored the spread of Christianity in East Africa. (12mks)

NAME:.....ADM NO:.....  
CLASS:..... DATE.....

CRE  
FORM TWO

END OF TERM ONE EXAMINATION

TIME: 2<sup>1</sup>/<sub>2</sub> HOURS

TERM 1

END OF TERM 1 EXAMINATION

**INSTRUCTIONS TO CANDIDATES**

✓ Answer five questions in spaces provided

1. a) State **seven** ways in which human beings act as co-creators with God. (7mks)

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b) From the story of the fall of human beings in Genesis chapter 3, state the effects of sin.  
(7mks)

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c) Give **six** ways in which the church helps to bring back members who have fallen from the faith.  
(6mks)

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2. a) Identify **SEVEN** reasons why Elijah faced danger and hostility as a Prophet of God(1Kings 18:17-46)  
(7mks)

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b) State the teachings about God from Mt. Camel contests. (7mks)

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c) Give **six** leadership qualities that Christians learn from the leadership of Elijah.

(6mks)

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3. a) Identify ways in which King Solomon promoted Idol worship in Israel. (7mks)

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b) State **six** consequences of King Solomon's failure as King of Israel. (6mks)

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c) Give **seven** lessons that modern political leaders in Kenya can learn from King Solomon.  
(7mks)

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4. a) Outline the message of angle Gabriel to Mary in Luke 1:26-38. (7mks)

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b) Identify what the magnificent reveals about the nature of God. (6mks)

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c) State **seven** reasons why Christians sing in the church in Kenya today (7mks)

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5. a) Identify **SEVEN** challenges John the Baptist faced in his ministry. (7mks)

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b) Describe the temptations of Jesus in the wilderness Luke 4:1-9) (7mks)

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c) State ways in which Christians can be tempted today. (6mks)

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6. a) Identify **SEVEN** reasons why divorce is rare in traditional African communities. (7mks)

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b) State **SEVEN** places where worship is carried out in traditional African communities. (7mks)

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c) List **six** duties of diviners in traditional African communities (6mks)

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NAME: \_\_\_\_\_ ADM NO: \_\_\_\_\_

CANDIDATE'S SIGN: \_\_\_\_\_ DATE: \_\_\_\_\_

AGRICULTURE  
FORM 2  
END OF TERM 1  
TIME: 2HRS

### END OF TERM ONE EXAMINATION

#### INSTRUCTIONS

- ✓ This paper consist of three sections A, B and C
- ✓ Candidate to answer **all** questions in section A and B and any other **two** questions only in section C

#### CANDIDATE SCORE

	QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
A	1-15	30	
B	16-21	30	
C	22	20	
	23	20	
	24	20	
	<b>TOTAL</b>		

#### SECTION A (50MKS)

*Answer all questions in this section on spaces provided.*

1. State two ways in which agriculture contributed to the industrial development (1mk)
  - i).....
  - ii).....
2. State four deficiency symptoms of phosphorous in plants (2mks)
  - i).....
  - ii).....
  - iii).....
  - .....
  - iv).....
3. State four reasons why minimum tillage is encouraged in crop production (2mks)
  - i).....
  - ii).....
  - iii).....
  - iv).....
4. State four advantages of drip irrigation (2mks)
  - i).....
  - ii).....
  - iii).....
  - iv).....
5. Below are lists of plant elements / minerals. Study them carefully and answer the following questions.
  - Nitrogen
  - Sulphur
  - Magnesium
  - Iron
  - Copper
  - Boron
  - Zinc
  - Molybdenum
  - Carbon
  - Phosphorous
  - a) Of which of the above are macro-nutrients? (1mk)

.....  
b) Of which of the above are primary macro-nutrient? (1mk)

.....  
c) Of which of the above are micro-nutrients? (1mk)

.....  
d) Of which of the above are liming elements? (1mk)

.....  
6. a) State three factors which should be considered when constructing a compost pit (1½mks)

i).....

ii).....

iii).....

b) Why should the following be added when preparing compose manure.

i. Top soil (1mk)

.....  
.....

ii. Previous compost/farm yard manure (1mk)

.....  
.....

iii. Wood ash (1mk)

.....  
.....

7. State three ways in which government policy influences agriculture (1½mks)

i).....

ii).....

iii).....

8. State the functions of Boron in crop production (1mk)

.....  
.....

9. Differentiate between straight and compound fertilizers (½mk)

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.....

10. Name any two methods which can be used to detect mineral nutrient deficiency in crops.

(2mk)

- i).....
- ii).....

11. Under which condition does opportunity cost not exist

(1mk)

.....

12. State the importance of soil testing

(2mks)

- i).....
- ii).....

13. State three advantages of using seeds as planting materials

( ½mk)

- i).....
- ii).....
- iii).....
- iv).....

14. Name the part used to propagate the following crops

(3mks)

- a) Sisal .....
- b) Irish potato .....
- c) Maize .....
- d) Pyrethrum .....
- e) Pineapples .....
- f) Bananas .....

15. a) State four factors to consider when setting a nursery

(2mks)

- i).....
- ii).....
- iii).....
- iv).....

b) Name two types of metallic pipes commonly used in the farm

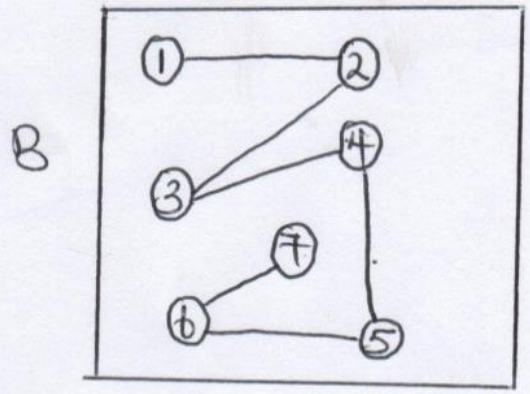
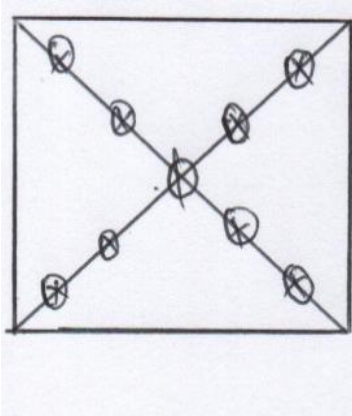
(1mk)

- i).....
- ii).....

**SECTION B (30MKS)**

**Answer all questions in this section on spaces provided**

16. Below are methods used in soil sampling study them and answer the questions below



a) Identify the method A and B (2mks)

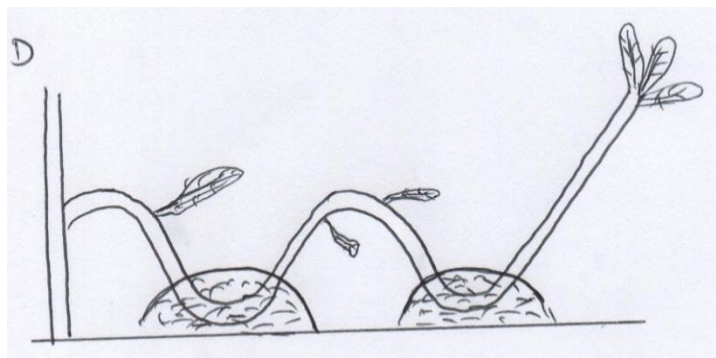
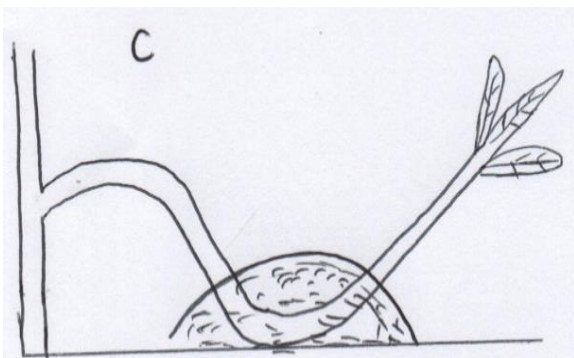
Method A .....

Method B .....

b) State four precautions taken when carrying the methods above (4mks)

- i).....
- ii).....
- iii).....
- iv).....

17. Identify the types of layering shown (2mks)



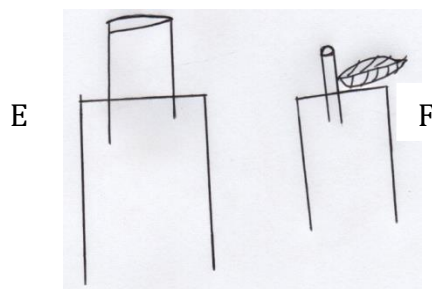
Layering C .....

Layering D .....

18. a) A farmer was advised to use 20kg of nitrogen, 30kg of phosphate and 15kg of potassium for growing crops. If the farmer has calcium ammonium nitrate 21%  $N_1$  single super phosphate 20%  $P_2O_5$  and muriate of potash 50%  $K_2O$  in the store, calculate how much of CAN 21%  $N_1$ , SSP 20%  $P_2O_5$ , 50%  $K_2O$  will the farmer require. (6mks)

b) Money maker variety of tomatoes are spaced at 100cm x 60cm, calculate the number of plants in area of 4m x 3m (3mks)

19. The diagram E and F shows the cuttings, inserted into the sleeves of polythene bags.



a) In which diagram has the practice been done correctly? (1mk)

.....

b) Give a reason for your answer above (1mk)

.....

c) Describe the procedure of preparing the cuttings above (3mks)

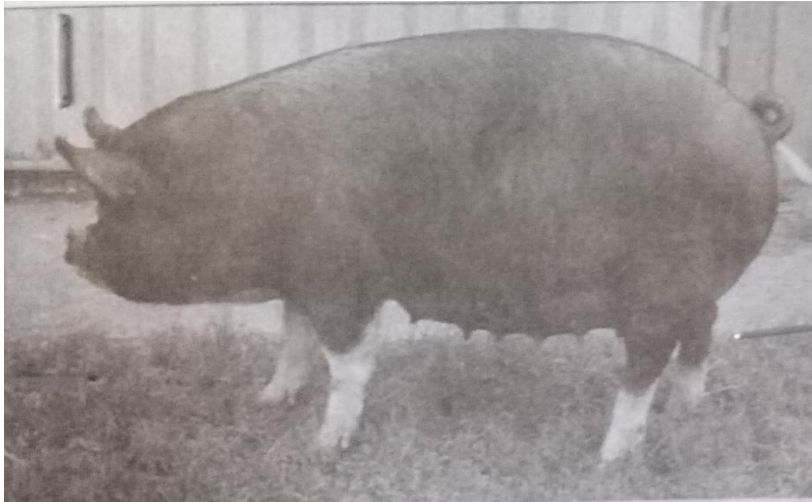
.....  
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d) What precautions taken when preparing the cuttings above (1mk)

.....  
.....

20. Identify the breeds of livestock shown below (2mks)

G



H



J





K



Breed G .....

Breed H .....

Breed J .....

Breed K .....

b) State physical characteristics of

Breed H (1mk)

.....

Breed K (1mk)

.....

21. The diagram below represent a bag of fertilizer observed in a shop. Study it carefully and answer questions that follow.

Kinoti chemicals

20-20-10

50 kgs

N0 hooks

a) Classify the fertilizer according to the nutrients contained (1mk)

.....

- b) What is the fertilizer ratio of the fertilizer contained in the bag (1mk)  
.....
- c) Give reason why hooks are not used? (1mk)  
.....  
.....

**SECTION C**

**Answer any two questions on spaces provided.**

22. a) State and explain four practices carried out on seedling in a nursery (8mks)  
b) State six factors to consider when timing planting of crops. (6mks)  
c) State six characteristics of a fertile soil (6mks)
23. a) State the properties of nitrogenous fertilizer (6mks)  
b) Describe the procedure of soil sampling (6mks)  
c) State and explain four factors that influence the spacing of maize in the field (8mks)
24. a) Describe importance of a nursery in crop production (6 mks)  
b) Describe the factors to consider when selecting a nursery site for tomatoes (10 mks)  
c) State four methods of fertilizer application on maize in the field (4 mks)

NAME: \_\_\_\_\_ ADM NO.: \_\_\_\_\_

CLASS: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_ DATE: \_\_\_\_\_

FORM 2

BUSINESS STUDIES

END OF TERM 1

TIE: 2½HRS

## END OF TERM ONE EXAMINATION

### **INSTRUCTIONS**

1. Answer all the questions in the spaces provided

**SECTION A**

1. State the term given to each of the following statements (4mks)
  - a) Movement of goods and services from producers to consumers .....
  - b) Creation of goods and services .....
  - c) Using a good or service .....
  - d) Satisfaction derived from a good or service .....
  
2. State **four** categories in which the various types of business partners may be classified (4mks)
  - i) .....
  - ii).....
  - iii).....
  - iv).....
  
3. Highlight **four** ways in which the government creates an enabling environment for the conduct of business in the country (4mks)
  - i) .....
  - ii).....
  - iii).....
  - iv).....
  
4. Outline **four** roles of transport in the facilitation of trade (4mks)
  - i) .....
  - ii).....
  - iii).....
  - iv).....
  
5. Outline any **four** importances of business studies to the learner (4mks)
  - i) .....
  - ii).....
  - iii).....
  - iv).....
  
6. State four ways in which Kenya may benefit from its natural resources endowment (4mks)
  - i) .....
  - ii).....

- iii).....
- iv).....

7. State the type of utility created by each of the following activities (4mks)

- a) Delivering milk to a customer .....
- b) Keeping money in the bank .....
- c) Selling bread to a student .....
- d) Making uniform for students .....

8. Outline any **four** external factors that may affect business positively (4mks)

- i) .....
- ii).....
- iii).....
- iv).....

9. Highlight **four** circumstances under which a credit note may be issued (4mks)

- i) .....
- ii).....
- iii).....
- iv).....

10. Mutiga bought 20 crates of soda each at sh. 500. He was allowed a discount of 10%. The cash discount was quoted as follows; 10% 1 month, 5% 2 month otherwise net. If he paid within two months, calculate the amount of money he paid. (4mks)

11. From the following sentences, indicate the type of business activity (4mks)

- a) Activity involved getting goods from their natural setting .....

- b) Buying and selling of goods and services with a view of making profit .....
- c) Building of structures (bridges) .....
- d) Smelting iron ore to make iron .....

12. For each of the following production activities indicate whether its direct or indirect type of production. (4mks)

Activity	Type of Production
a) A wife washing her husband's cloths	
b) A man repairing his chair at home	
c) Mugambi operating a wholesale business	
d) Kiende selling sukuma wiki	

13. Outline any **four** reasons that make a firm file its documents (4mks)

- i) .....
- ii).....
- iii).....
- iv).....

14. Outline any **four** reasons why one requires a business plan. (4mks)

- i) .....
- ii).....
- iii).....
- iv).....

15. Highlight any **four** methods of government involvement in business (4mks)

- i) .....
- ii).....
- iii).....
- iv).....

16. Name the office equipment that function the following uses (4mks)

- a) Adding and subtracting figures .....
- b) Cutting unwanted documents into tiny pieces for disposal .....
- c) To make holes in papers for filing .....
- d) Folding letters and sealing envelops .....

17. Mention the **four** essentials of transport (4mks)

- i) .....
- ii).....

iii).....

iv).....

18. Outline **two** reasons why it's difficult to satisfy human wants fully (2mks)

i) .....

ii).....

**SECTION B**

19. Outline any **five** differences between sole proprietorship and partnership forms of business units.

(10mks)

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20. Explain any **five** importances of entrepreneurship in the economy. (10mks)

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21. Explain any **five** means of payment used in Home trade (10mks)

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NAME:..... DATE:.....  
CLASS:..... ADM NO.....

COMPUTER STUDIES  
FORM TWO

END OF TERM ONE EXAMINATION

TIME: 2<sup>1</sup>/<sub>2</sub> HOURS  
TERM 1  
END OF TERM 1 EXAMINATION

**INSTRUCTIONS TO CANDIDATES**

✓ Answer all questions in spaces provided

1. The cost of a computer is one of the key factor to consider when buying one. State the factors that determine the price of a computer (3mks)

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.....

2. State any three advantages that flat screen displays have over the conventional cathode Ray Tube displays. (3mks)

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.....

3. State any three characteristics of the Random Access memory (3mks)

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.....

4. Name any two types of optical scanners (1mk)

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5. What are the two main functions performed by UPS (2mks)

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.....

6. State the purpose of registers in a computer system (1mk)

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.....

7. A company has decided to computerize their operations. They have decided to purchase packages instead of developing their own programs. Give three advantages and two disadvantages of this approach (5mks)

Advantages

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

Disadvantages

.....  
.....

8. A school has bought a computer system. The hardware items supplied include: A 800MHZ processor, 640MB of RAM, a sound card, speaker, a monitor, a keyboard, a 12GB hard disk, a floppy disk drive, a CD-Read/write drive, a mouse a modem, an inkjet printer and a joystick. The software supplied include: an operating system, A BASIC interpreter and the following packages: spreadsheets, graphics, word processor, art, database and games.

a) List three input devices from the given specification (3mks)

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

b) Explain the meaning of the following;

i) 800MHZ (1mk)

.....

ii) 640 MB (1mk)

.....

iii) 12 GB (1mk)

.....

c) Some of the students in the school use the computer to do the homework.

Name the packages used to:

i) Do calculations and drawing graphs (1mk)

.....

ii) Write an essay (1mk)

.....

iii) Make poster (1mk)

.....  
d) Students enjoy playing noisy computer games

i) Which two hardware items needed are to produce sound? (2mks)

.....  
.....  
ii) Which input device is only used for playing games (1mk)

.....  
9. a) What is thesaurus? (2mks)

.....  
.....  
b) Distinguish between auto complete and auto correct feature? (2mks)

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.....  
c) State and explain any two text alignment features (4mks)

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.....  
d) List two sources of graphics that can be used in Ms Word (2mks)

.....  
10. State three examples of electronic word processors (3mks)

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11. Outline any three main features that make word processors popular programs. (3mks)

.....  
12. Give three example of special-purpose computers (3mks)

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13. Give three comparisons of the traditional method of typing a document on a Typewriter against using a word processor (6mks)

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14. List and describe four elements of computer system (4mks)

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15. a) Define proofreading (2mks)

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b) Give four ways of proof reading a document in MS word (4mks)

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16. i) What is a warranty? (2mks)

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ii) State four qualities of a good warranty cover (4mks)

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17. Differentiate between the following.

i) Disk formatting and partitioning (2mks)

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.....

ii) Compressing and defragmentation a disk (2mks)

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18. Explain why a computer room must;

i) Have good ergonomics (2mks)

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.....

ii) Be well ventilated (2mks)

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.....

iii) Have none-water based fire-extinguisher (2mks)

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19. a) Explain three types of computer disks (CDs) (3mks)

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b) Cherotich bought aDVD-double layer to back up her files from a laptop. Given that the capacity of the DVD is 8.5GB, calculate the number of CDs-Rs, she would have bought if the double layer was not available (4mks)

c) Explain the meaning of WORM in reference to optical storage (2mks)

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20. a) Mugabe tried to retrieve a file from the computer but did not appear as expected. State three possible causes for this. (3mks)

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b) With an aid of a diagram, explain the different between an analogue signal and a digital signal (4mks)

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c) Give three reasons why a mobile phone is regarded as a computer (2mks)

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NAME: \_\_\_\_\_

ADM NO.: \_\_\_\_\_

SCHOOL: \_\_\_\_\_ SIGNATURE: \_\_\_\_\_

## END OF TERM ONE EXAMINATION

FORM 2

HOME SCIENCE

TIME: 2HRS

### INSTRUCTIONS

1. The paper contain three sections **A**, **B** and **C**
2. Answer all the questions in section **A** and **B**
3. Answer any **two** questions in section **C**



**SECTION A (40 MKS)**

1. Give two reasons for applying shoepolish on leather shoes (2mks)  
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.....
2. Name two fabrics which are weak when wet (2mks)  
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3. State two reasons why stainless steel may be unsuitable for making cooking pans. (2mks)  
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4. State two reasons for coating foods before frying (2mks)  
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5. Identify two symptoms of malaria (2mks)  
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6. State two important measures one needs to control rats in a home (2mks)  
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7. State two factors that influence the location of a pit latrine (2mks)  
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8. What two things can be done in the care of eyes (2mks)  
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9. State two points to consider when buying a cooker (2mks)  
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.....
10. State two points to consider when buying a tape measure (2mks)

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11. List two characteristics of enamel utensils (2mks)

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12. What is the use of running stitch (1mk)

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13. Mention three reasons for finishing wooden surfaces (3mks)

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14. Give two reasons why it is necessary to learn first aid. (2mk)

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15. State two causes of common accidents in homes (2mks)

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.....

16. State two points to consider when choosing a method of cooking (2mks)

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17. State two symptoms of food poisoning (2mks)

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18. Name two parts of a machine (2mks)

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19. Mention two laundering activities (2mks)

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20. List two ways of mending torn clothes (2mks)

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**SECTION B (20MKS) (COMPALSORY)**

21. You are taking care of your aunt who is recovering from an infectious disease. (5mks)

a) Explain how you would wash her bath towel

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b) Describe how you would clean a plastic basin she has used in the room (6mks)

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c) Explain how you would clean the toilet used. (9mks)

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SECTION C (40MKS)

Answer any two questions

22. a) Mention five reasons for buying a house (5mks)

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b) Explain five reasons for cleaning a house (10mks)

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c) State five points to look for when choosing a wardrobe (5mks)

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23. a) Mention four examples of temporary stitches

(4mks)

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b) Mention six important points to note when working stitches

(6mks)

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c) Name five categories under which sewing tools and equipments are categorized. For each, give two examples

(10mks)

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24. a) Mention four ways on how environmental pollution can be avoided (4mks)

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b) Cholera is one of the most communicable disease;

i. State four signs and symptoms of cholera (4mks)

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ii. Mention any four preventive and control measures of cholera (4mks)

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c) Explain four disadvantages of open drainage (8mks)

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