FORM 2 END TERM 2 SERIES 1

EXAMS



For marking schemes, prefer calling Mdm Mariam: 0746711892 Other available resources are;

well summarised primary and secondary

notes

- ★FI-F4 termly exams
- 📌 primary exams
- KCSE past papers
- KCPE past papers
- **Mocks**
- 📌 lesson plans
- reserved served served

Note:Exam questions are always free of charge Marking scheme are not free

NA	AMECLASS	•
ΑD	OM NOSIGNATURE	••
DA	ATE	
	FORM 2 END TERM 2 SERIES 1 EXAMS	
EN FO	GRICULTURE EXAM ND OF TERM 2 ORM TWO ME:	
1.	Answer ALL Questions. State four systems of farming.	
		••••••
2.	State two effects of HIV/AIDS on agricultural production.	(2mks)
3.	List four physical agents of weathering.	(2mks)
		• • • • • • • • • • • • • • • • • • • •
		• • • • • • • • • • • • •

4.	List four factors influencing soil formation.	(2mks)
5.	Name two types of water pumps.	(2mks)
6.	Mention two tertiary operations carried out during land preparation.	(1mk)
7.	Outline four characteristics of a fertile soil.	(2mks)
8.	Give two characteristics of plant used for preparing green manure.	(2mks)
9.	Differentiate between a root stock and a scion as used in grafting.	
10	Name two forms in which nitrogen is absorbed by plants.	(2mks)
11	State two deficiency symptoms of Nitrogen.	(2mks)

••••••	• • • • • • • • • • • • • • • • • • • •
12.List four examples of phosphatic fertilizers.	(2mks)
•••••••••••••••••••••••••••••••••••••••	
 13.A farmer was asked to apply fertilizers as follow: 200 kg/ha of DSP (40% P₂O₅ sulphate of ammonia 20% Nitrogen and 150kg/ha of Muriate of Potash 60% K₂ a) How much P₂O₅ did the farmer apply per ha. 	_
b) How much K_2O did the farmer apply per ha.	(2mks)
c) How much nitrogen did the farmer apply per/ha.	(2mks)
14.State two methods of pH testing.	(2mks)
15.Outline four disadvantages of mulching in crop production.	(2mks)
	• • • • • • • • • • • • • • • • • • • •
	•••••
16. List 3 factors that determine the time of harvesting farm produce.	(3mks)

••••••	••••••
••••••	••••••
7. State four post harvesting practices.	(2mks)
•••••••••••••••••••••••••••••••	••••••
•••••••••••••••••••••••••••••••	•••••
••••••	•••••
••••••	••••••
8. The diagram below shows a type of storage facility. Use it to answer question	that follow.
n) Name the structure.	(1mk)
	••••••
Name part L and state its function.	(2mks)
	••••••

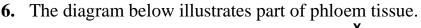
c) Name the roofing material the structure is made of:	(1mk)
d) List three limitations of the above structure.	(3mks)
	••••••
e) Give two preparations that the farmer should make on the above str produce is brought in.	ucture before the crop (2mks)
19. Give four categories of vegetables.	(2mks)
•••••••••••••••••••••••••••••••••••••••	••••••
20. The diagram below represents a pest that attacks tomatoes.	
Stem	The state of the s

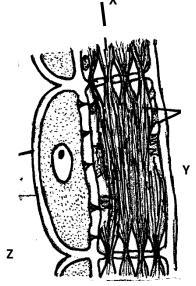
i) Identify the pest.	(1mk)
ii) State two control measures of the above pest.(2mks)	•••••••
21.(a) Differentiate between health and disease as used in livestock health.	(2mks)
•••••••••••••••••••••••••••••••••••••••	•••••
(b) State four factors that predispose livestock to diseases.	(4mks)
•••••••••••••••••••••••••••••••••••••••	•••••••••••••••••••••••••••••••••••••••
(c) Outline 3 routine management practices of disease control.	(3mks)
(d) State three activities in livestock health that necessitate handling of animals.	(3mks)
	••••••

22	.(a) List two harmful effects of tsetsefly infestation to livestock.	(2mks)
i)	(b) Name: Intermediate host for tapeworm.	(1mk)
ii)	Intermediate host for liverfluke.	(1mk)
	(c) Give two examples of one host tick.	(2mks)
		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,

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DATE	
FORM 2 END TERM 2 SEI	RIES 2 EXAMS
BIOLOGY	
FORM 2	
1. (i) What is respiration?	(1mk)
(ii) State any two importance of respiration.	(2mks)
(i) What is respiration? (1mk) ii) State any two importance of respiration. (2mks) (a) (i) Name the blood vessel that supplies the cardiac muscles with its requirements.(1mk) (ii) State the corgenical defect of the above blood vessel resulting from prolonged large intake of cholesterol in the blood. (1mk) What is the importance of the thicker muscular wall of the left ventricle of a mammalian heart?	
(ii) State the corgenical defect of the above blood vessel	resulting from prolonged large intake of
BIOLOGY FORM 2 . (i) What is respiration? (1mk) . (ii) State any two importance of respiration. (2mks) . (a) (i) Name the blood vessel that supplies the cardiac muscles with its requirements.(1mk) . (ii) State the corgenical defect of the above blood vessel resulting from prolonged large intake of	
3. (a) (i) Name the respiratory surface in insects.	(1mk)

	(ii) State any one feature that adapts the structured named in a (i) above to its f	
	iii) Why are the fish gills highly vascularized?	(1mk)
4.	a) (i) what would happen if a person secreted less A.D.H?	(1mk)
	(ii) Name the condition described in a(i) above.	(1mk)
	(b) What is the role of the loop of Henle in homeostasis?	(1mk)
5.		(1mk)
	(b)Give any two economic importance of the products named in (a) above.	(2mks)
	•••••••••••••••••••••••••••••••••••••••	
6	The diagram below illustrates part of phloem tissue	•••••





(a) Name the parts labeled.	(2mks)
X	
Y	
(b)State the function of the part labeled ${\bf Z}$	(1mk)
7. Name the monosaccharides that make up the disaccharides below (a) Sucrose	(1mk)
(b) Lactose	(1mk)
(c) Maltose	(1mk)
8. State one use of the following excretory products of plants (i) Latex	(2mks)
(ii) Colchicine	••••••
9. (a) Define respiratory quotient	(1mk)
(b) Given the equation below, calculate the respiratory quotient (RQ)	(2mks)
$C_6H_{12}O_6+6O_2 \longrightarrow 6H_2O+6CO_2+2880kJ$	
10. State the importance of the following(i) Reversed stomatal rhythm to desert plants	(1mk)

	(1mk)
•••••••••••••••••••••••••••••••••••••••	•••••
The diagram below represents the pathway of water from soil into the plant of the pathway of water from soil into the pathway of the pathway of water from soil into the path	
•••••••••••••••••••••••••••••••••••••••	,
the structures labeled T and S.	(1

12. A student added equal amounts of blood to equal volumes of salt of different concentrations. She observed and counted the red blood cells at the beginning of the experiment and at end of the experiment. The results were as shown:-

Set up	Concentration of salt	Begining	After 30 mins
A	0.1 mol	500	500
В	0.01 mol	500	250

Account for the results in:

a)	Set up A	•••••	•••••	•••••	(2m	ks)
b)	Set up B		••••••		(2m	•
13. I $^{0}/_{3}$,		tal formula of PM $^{3}/_{2}$,	f certain organisn M ³ / ₃	ns. Use it to ans	wer the quest	ions that follow.
(i) Cal	lculate the total n	umber of teetl	n in the mouth of	the organisms.	(2mks)	
(ii)			•••••	•••••	(1mk)	
(iii)	Identify the	mode of nutr	rition of the organ	isms.	(1mk)	·•
namm	alian Bowman's o	capsule.	not normally ap		_	(2mks)
	Which hormones a	are involved in	n the salt-water b	alance in human	body?	(2mks)
14.			e blood other than		•	(2mks)
•••••	•••••	• • • • • • • • • • • • • • •		••••••		
(culatory system in			(1mk)

15. (a) State <u>two</u> ways in which human body is naturally protected against harmful bacteria.	(2mks)
	• • • • • • • • • • • • • • • • • • • •
(b) State one way in which the composition of blood in the pulmonary artery and	l that
of pulmonary vein differ.	(1mk)
•••••••••••••••••••••••••••••••••••••••	• • • • • • • • • • • • • • • • • • • •
16. Describe the path taken by Carbon (IV) Oxide released from the tissues of a coatmosphere. (2m	
••••••	•••••
•••••••••••••••••••••••••••••••	
17. Form One student set up an experiment shown below to investigate a certain process. The set up was left for 30 minutes.	physiological
Glass rod Thread Distilled water Sucrose solution Visking Tubing	
a)Name the process under study.	(1mk)
b) State the expected results after 30 minutes.	(1mk)
c) Explain your answer in (b) above.	(3mks)

	•••••
18. Explain why it is important to stain specimen to be observed under a light mic (2mks)	
19. What is wilting?	(2mks)
20. State the significance of the following steps while testing for disaccharides in foo	•••••
(a) Addition of dilute hydrochloric acid	
b) Addition of sodium bicarbonate.	•••••
21. a) (i) Name the fluid produced by sebaceous gland.	(1mk)
(ii) State two function of the fluid named in 5 a) (i) above.	(2mks)
b) Explain malpighian layer of the skin is adapted to perform its function.	(1mk)
22. Outline three functions of colon.	(3mks)
	••••••

23.	Explain four reasons why the stu	idy of biology is important	(4mks)
•••			
•••		••••••••••••	
•••		••••••••••	•••••
	Define the term physiology	(1mk)	
		•••••	

NAME	•••••	CLASS	
ADM NO		SIGNATURE.	
DATE	•••••	••••••	
	FORM 2 EN	D TERM 2 SERIES 1	EXAMS
	S STUDIES		
FORM 2 TIME: 1	½ HOURS		
Instructio			
		og navridad	
	ll the questions in the space	•	
1.State Fo	ur reasons why it is difficult	to satisfy human wants.	(4mks)
2.State any	y Five clauses contained in the	he memorandum of association.	(5mks)
•			,
•••••			• • • • • • • • • • • • • • • • • • • •
•••••			•••••
•••••			•••••
•••••	•••••••••••	••••••••••	•••••••••••••••••••••••••••••••••••••••
3.State the	nature of the following production	luction activities	(4mks)
	Activity	Nature	
	(a)Flour milling		
	(b)Bread baking		
	(c)Cloth making		

4 .State Four situations that indicate existence of a business opportunity.	(4mks)
5. Highlight any Four roles that are played by ethics in businesses.	(4mks)
6.Identify Four roles that equipments play in an office.	(4mks)
7.Outline Four circumstances under which a partnership may be dissolved.	(4mks)
8.State Three ways in which government may regulate business activities.	(3mks)

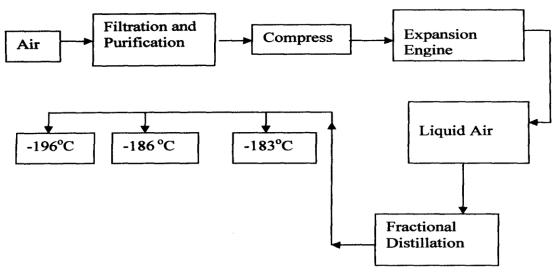
(d)Cotton ginning

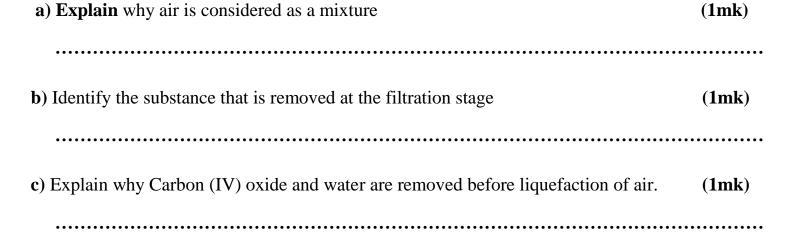
9.Outline the sources of capital for co-operatives.	(4mks)
•••••••••••••••••••••••••••••••••••••••	
10. Highlight Five factors to be considered when selecting office equipment.	(5mks)
	••••••
11.Highlight the contents of articles of association.	(4mks)
	•••••
12. Give Four essential elements of transport.	(4mks)
13. Highlight Five importance of transport to business.	(5mks)
•••••••••••••••••••••••••••••••••••••••	

14. Highlight Four reasons for studying business studies in Kenya.	(4mks)
	•••••
15.Name Four accounting documents that are used in home trade.	••••••
	•••••
16 . Identify Four elements of effective communications.	(4mks)
•••••••••••••••••••••••••••••••••••••••	
17.Identify Four common means of verbal communication.	(4mks)
	••••••
•••••••••••••••••••••••••••••••••••••••	•••••

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TE		••••••	
FORM	2 END TERM 2	SERIES 1 EX.	AMS
EMISTRY			
RM 2			
IE: 2 HOURS			
		O STUDENTS	
1. Answer ali	<u>INSTRUCTIONS T</u> questions in this question j		
	questions in this question p	paper.	avagti on nana
		paper.	question pape
2. All your a	l questions in this question passion passers must be written in the	paper. Se spaces provided in this	question pape
2. All your an	questions in this question passion for the description of the descript	paper.	question pape
2. All your a	l questions in this question passion passers must be written in the	paper. Se spaces provided in this	question pape
2. All your an	questions in this question passion for the description of the descript	paper. Se spaces provided in this	question pape
2. All your an Question 1-15	nswers must be written in the Maximum score	paper. Se spaces provided in this	question pape
2. All your an	nswers must be written in the Maximum score	paper. Se spaces provided in this	
Question 1-15 Define the following Atomic Number	nswers must be written in the Maximum score	ce spaces provided in this Candidates score	(1mk)
Question 1-15 refine the following Atomic Number	nswers must be written in the Maximum score 70	ce spaces provided in this Candidates score	(1mk)
Question 1-15 Define the following Atomic Number	Maximum score 70 terms:	Candidates score	(1mk) (1mk)
Question 1-15 efine the following Atomic Number	nswers must be written in the Maximum score 70	Candidates score	(1mk) (1mk)

2. Oxygen is obtained on large scale by the fractional distillation of air as shown on the flow chart below.





3. Study the table below and answer the questions that follow:-

(1mk)

d) Identify the component that is collected at -186°C

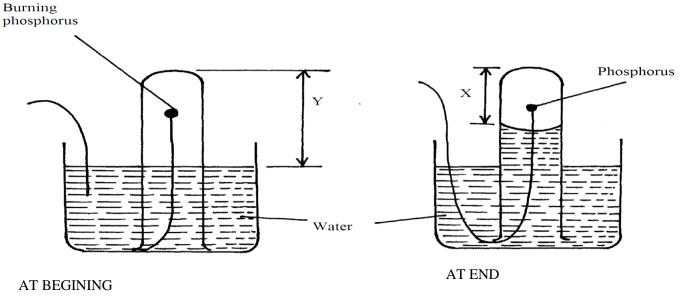
Substance		A	В	C	D	Е	F
Melting Point (°C)		_801	113 OR 119	-39	5	-101	1356
Boiling poin	t (°C)	1410	445	457	54	-36	2860
Electrical	Solid	Poor	Poor	Good	Poor	Poor	Poor
Conductivity	liquid	Good	Poor	Good	Poor	Poor	Poor

	Identify with reasons the substances that:	
	(i) Have a metallic structure	(2mks)
		• • • • • • • • • • • • • • • • • • • •
		•••••
	(ii) Have a molecular structure	(2mks)
	(iii) Substances A and C conduct electric current in the liquid state. State how substances differ as conductors of electric current	(2mks)
		•••••
1.	Atoms of element X exists as $\begin{array}{c} 14 \\ 6 \end{array}$ X and $\begin{array}{c} 12 \\ 6 \end{array}$	
	(a) What name is given to the two types of atoms.	(1mk)
	(b) Use dot (·) and cross (x) diagrams to illustrate the atomic structure of $\frac{14}{6}X$	
		•••••
		•••••
5.	Give two reasons why most laboratory apparatus are made of glass.	(2mk)
	6 . Define the following terms:	

]	I.	A sa	turated solution.		(1mk)
IJ	 [.	Crys	stallization.		(1mk)
a)	Describ (3mks)	be how	copper (II) sulphate crys	stals can be obtained from copper (II) s	ulphate solution.
	•••••	•••••			
b)	-		le below and use it to an	swer the questions that follows. Letters	are not the actual
		Ion	Electronic configuration		
		L-	2,8,8		
		M ²⁺	2,8		
		N ³⁺	2,8,8		
(a))Which	elemen	nts belong to the same per	riod of the periodic table?	(1 mark)
	•••••	•••••			•••••
(b)				riod of the periodic table?	(1 mark)
(c)) What is	the fo	rmula of the compound f	Formed by L and N.?	(1 mark)
(d	_		ntomic and ionic radii of	element L.	(1 mark)
c)			mical fomular of the follo		(3mks)
a.	Sodium	sulpha	ate		
	•••••	• • • • • • •	•••••		• • • • • • • • • • • • • • • • • • • •

b .	Magnesium hydroxide
c .	Calcium nitrate.
d)	State the reasons why carbon (iv) oxide is used by ice cream venders instead of ordinary ice. (2mks)

e) A student set-up the apparatus below in order to determine the percentage by volume of oxygen in air.



a) Why did water rise when the reaction had stopped? (2mks)

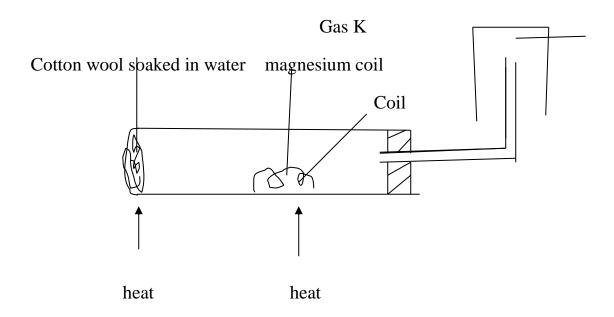
b) The student wrote the expression for the percentage by volume of oxygen in air as $\frac{y-x}{y}x100\%$

Why was the volume of oxygen calculated using the above expression incorrect? (1mk)
e) What should have been done after the reaction had stopped in order to get a correct volume. (1mk)
f) Explain how you would obtain solid lead carbonate from a mixture of lead carbonate and sodium chloride. (3mks)
13. Aluminium metal is a good conductor and is used for overhead cables. State any other two properties that make aluminium suitable for this use.(2mks)
14. In an experiment, a test tube of chlorine gas was inverted in water as shown in the diagram. It was then left to stand in sunlight for one day. Sun light
Gas M Test tube

At the end of experiment (after one day)

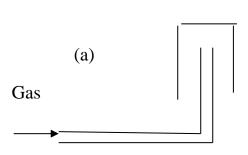
Chlorine water

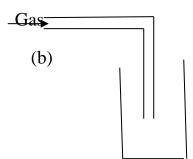
After one day, a gas M was found to have collected in the test tube as shown above.	
(i). identify gas M.	(1mk)
(ii). Suggest whether the PH of the solution in the beaker would increase or decrease day. Give an explanation.	after one (2mks)
(iii). The colour of chlorine water was observed to have changed from pale yellow to after one day. Explain.	colourless (2mks)
(iv) Write an equation to support your answer in (iii) above.	(1mk)
(v). State and explain the observation made when a moist blue litmus paper was place mouth of the test tube containing chlorine gas.	(3mks)
••••••	••••••
(vi). Write an equation to show how the process in (v) above occurs.	(1mk)
(vii). Give two uses of chlorine gas.	(2mks)
	••••••
15. A student set up the experiment below to collect gas K. the glass wool was heated heating the magnesium coil.	d before



(a). Explain why it was necessary to heat the moist cotton wool before heating the	(2mks
(b).Identify gas K .	(1mk)
(c).what property of gas K makes it possible to be collected by the method shown?	(1mk)
(d). Write a chemical equation for the reaction that produced gas K.	(1mk)

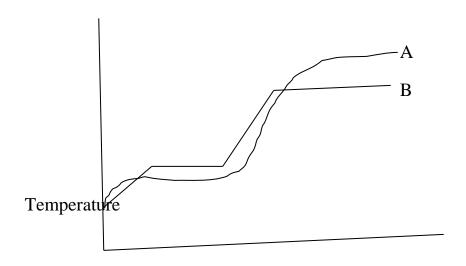
16. The diagram represents two methods of gas collection in the laboratory.





(i). Name the methods of gas collection above.	(2mks)
(ii). Which method is suitable for collecting dry carbon (IV) oxide gas? Give a reas	on (2mks)
	• • • • • • • • • • • • • • • • • • • •

17. The curves bellow represent the variation of temperature with time when pure and impure samples of a solid were heated separately.



(a). Which curve represents the variation in temperature for pure solid? Explain. (2mks)	
	••••
(b)State the effect of an impurity on the melting and boiling points of a pure substance.(2m	
•••••••••••••••••••••••••••••••••••••••	
18. Cars in Mombasa are found to rust faster than cars in Nairobi. Explain. (2 mks)	
(iii). State one disadvantage of rusting. (1mk)	
19. The PH of a soil sample in a given area was found to be 5.5. An Agricultural officer the	

(1mk)

addition of lime (calcium oxide). State the function of lime in the soil.

	•
20. By use of dot (.) and cross (x) diagram show bounding in magnesium chloride (mgCl ₂) (2mks)	
	•

NAME	•••
ADM NOSIGNATURE	••••
DATE	
FORM 2 END TERM 2 SERIES 1 EXAMS	
COMPUTER STUDIES	
FORM TWO	
TIME: $2^{1}/_{2}$ HOURS	
INSTRUCTIONS TO CANDIDATES	
(a) Answer all questions in spaces provided	
•	nks)
•••••••••••••••••••••••••••••••••••••••	•••••
•••••••••••••••••••••••••••••••••••••••	•••••
2. State any three advantages that flat screen displays have over the conventional cathod Tube displays. (3n)	de Ray nks)
•••••••••••••••••••••••••••••••••••••••	
•••••••••••••••••••••••••••••••••••••••	•••••
3. State any three characteristics of the Random Access memory (3nd	nks)
	•••••

4. Name any two types of optical scanners	(1mk)
5. What are the two main functions performed by UPS	(2mks)
6. State the purpose of registers in a computer system	•••••
7. A company has decided to computerize their operations. They have decided to packages instead of developing their own programs. Give three advantages disadvantages of this approach Advantages	purchase
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 keyboar hard disk, a floppy disk drive, a CD-Read/write drive, a mouse a modem, an inkjet particle. The software supplied include: an operating system, A BASIC interpret following packages: spreadsheets, graphics, word processor, art, database and game a) List three input devices from the given specification	orinter and the es. (3mks)

• • • • •	•••••••••••••••••••••••••••••••••••••••	•••••
b) i.	Explain the meaning of the following; 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 (ii) Which two hardware items needed are to produce sound?	(2mks)
•••••	•••••••••••••••••••••••••••••••••••••••	•••••
	(iii) Which input device is only used for playing games	(1mk)
9. a) What is thesaurus?	(2mks)
••		
	Distinguish between auto complete and auto correct feature?	(2mks)
		• • • • • • • • • • • • • • • • • • • •

•••••••••••••••••••••••••••••••••••••••	••••••
c) State and explain any two text alignment features	(4mks)
d) List two sources of graphics that can be used in Ms Word	
10.State three examples of electronic word processors	(3mks)
11.Outline any three main features that make word processors popular programs.	•••••
12. Give three example of special-purpose computers	
13. Give three comparisons of the traditional method of typing a document on against using a word processor	(6mks)
•••••••••••••••••••••••••••••••••••••••	••••••

14.List and describe four elements of computer system (4mks) 15.a) Define proofreading (2mks) b) Give four ways of proof reading a document in MS word (4mks) 16.i) What is a warranty? (2mks) ii) State four qualities of a good warranty cover (4mks)		•••••
14.List and describe four elements of computer system (4mks) 15.a) Define proofreading (2mks) b) Give four ways of proof reading a document in MS word (4mks) 16.i) What is a warranty? (2mks) ii) State four qualities of a good warranty cover (4mks)		•••••
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b) Give four ways of proof reading a document in MS word (4mks) 16.i) What is a warranty? (2mks) ii) State four qualities of a good warranty cover (4mks) 17.Differentiate between the following.		
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ii) State four qualities of a good warranty cover (4mks) 17.Differentiate between the following.		
17. Differentiate between the following.	16.i) What is a warranty?	(2mks)
17. Differentiate between the following.		•••••
17. Differentiate between the following.		
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17.Differentiate between the following.		
17. Differentiate between the following.		
17. Differentiate between the following.		
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-	17. Differentiate between the following	
(i) Disk formatting and partitioning (2mks)	(i) Disk formatting and partitioning	(2mks)

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••••••	
•••••	
(ii) Compressing and defragmentation a disk	(2mks)
••••••	
••••••	
••••••	
•••••••••••	
18. Explain why a computer room must;	
i) Have good ergonomics	(2mks)
•••••••••••••••••••••••••••••••	
*\ D = -1111	(21)
ii) Be well ventilated	(2mks)
•••••••	
•••••••••••••	
iii) Have none-water based fire-extinguisher	(2mks)
myriave none-water based ine-extinguisher	,
19.a) Explain three types of computer disks (CD _s)	(3mks)
••••••	
•••••	
••••••	
•••••	
b) Cherotich bought aDVD-double layer to back up her fi	les 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)	

_	ORM in reference to optical storage	(2mks)
•••••		•••••
three possible causes for this		••••••
signal	explain the different between an an (4mk	as)
•••••		•••••
	nobile phone is regarded as a comput	
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	NAME	
	DATE	
	FORM 2 END TERM 2 SERIES	S 1 EXAMS
	CRE FORM 2 TIME: 2 HOURS	
	INSTRUCTIONS. Answer all questions in the spaces provided.	
1.	What are the divisions of the Books in the Bible?	(7mks)
		•••••
		•••••
		••••••
2.	Describe how God tested Abraham's faith in Genesis (22:1-19).	(8mks)
		•••••
		•••••

3.	Give five life skills used by Elijah to fight false religion in Israel. (5	mks)
		•••••
١.	Explain the Jewish expectations concerning the Messiah.	(5mks)
		•••••
		•••••
_		
·	Describe the incident in which Jesus healed Jairus daughter.(Luke8:40-56)	(7mks)
		••••••
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7	From the story of naboths vineyard state five commandments which king Ahab and queen	n iezehel
<i>,</i> •		•
	broke.	(5mks)
	•••••••••••••••••••••••••••••••••••••••	• • • • • • • • • • • • • • • • • • • •
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_		
8.	Narrate the parable of the widow and unjust judge Luke 18:1-8.	(6mks)
	•••••••••••••••••••••••••••••••••••••••	• • • • • • • • • • • • • • • • • • • •
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	••••••••••••••••••••••••	
9.	With reference to Luke 1:8 20, describe the annunciation of the birth of john the Baptist.	
		(7mks)
		(1)
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10	Describe the incident value Issue toward in the(I 1 - 4.1.12)	51-~\
10	Describe the incident when Jesus was tempted in the wilderness(Luke 4:1-13).	5mks)
		• • • • • • • • • • • • • • • • • • • •

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11	.State four ways in which Christians demonstrate their faith in God.	(4mks)
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	•••••••••••••••••••••••••••••••••••••••	

NAME	CLASS
ADM NO	SIGNATURE
DATE	

FORM 2 END TERM 2 SERIES 1 EXAMS

ENGLISH FORM 2

TIME: 2 HOURS

Answer all the questions in the spaces provided.

SECTION A: FUNCTIONAL WRITING (10 MKS)

Schools are almost closing. Your friend Genevieve lives in Kitui. She has invited you to visit and stay at their home for one week.

(a) Write a packing list that you would use when preparing for the visit.

SECTION B: COMPREHENSION (20 MARKS)

Read the passage below and answer the questions that follow.

THE VILLAGE DEGREE

She was coming from the river when she noticed her primary school headteacher's bicycle leaning against the tree in front of her parent's house. Instinctively, she decided to stealthily go round the house and hide in the kitchen. She didn't want her teacher to see her in her torn and patched work dress. But the mention of Alliance Girls High School made her forget about her attire. She rushed into the house, water jerry can still on her back.

She became the heroine of the family, the village, the location and even the district. Her name appeared in the newspapers. She was the best in Kenya Certificate of Primary Education in the county and her name was on the lips of everybody. The whole family crowded around the teacher to read for them this great letter.

Even those who could not read wanted just to touch it. The letter spoke of hope and freedom from poverty and as many of the women seemed to think, free from dependence on men in their celebration. Many older women repeated in different versions their belief that with education you my daughter won't have to be a slave for a man. You will be your own master. Though Mwongeli did not understand much about what the older women meant, she was excited as they were over her apparently open path to freedom.

So Mwongeli had joined Alliance thrilled by the prospects of freedom. There she met the best brains in the country and they were all celebrating freedom from slavery. But to her surprise, the presence of visiting boys' school seemed to generate such excitement that she wondered from men.

As for Mwongeli, her mother had told her not to mix men and education. In obedience, she kept the two apart and sure enough, after four more years, yet another letter came to her and there was cause for women folk in her village to celebrate `again. The daughter had been admitted to study for a degree in Electrical engineering at the university of Nairobi, the only woman in the class of twenty. Yes, she was no longer Mwongeli she was already a village engineer. In fact, the name Mwongeli even it its form 'Ngeli" was lost. Now the focus was a degree. She was now Engineer Mwongeli'

Aren't you going to open the letter? Atieno asked, startling Mwongeli out of her reverie. 'It's not urgent' Mwongeli replied in a flat tone. 'I was just thinking how I can do this quietly you remember how the whole village hired a van to come and celebrate my masters scholarship offer? I'm usually glad to see them happy and excited but I find I have no privacy. I'd like to handle this one differently. I'll need to read the letter when I have had a rest and I'll tell you what I decide.

And with that Mwongeli put her letter in the handbag and sat down to enjoy a cup of tea and chart with her friend.

OTTECTIONS.

(a) According the passage, why did Mwongeli want to hide in the kitchen?	(2 mks)
(b) Why did Mwongeli's name appear in the newspaper?	(2 mks)
(c) What had made Mwongeli's teachers visit her home?	

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(d) Explain the irony in paragraph three of the passage?	(3 mks)
••••••	• • • • • • • • • • • • • • • • • • • •
(e) Which letter is being referred to in paragraph three of the passage?	(1 mk)
(f) How many Engineering students were in Mwongeli's class?	(1 mk)
(g) According to the passage, what shows that children belong to the comm	nunity? (2 mks)
(L) W/L-4 - 1-1 - 1:1 M	
(h) What advice did Mwongeli's mother give her that enabled her to go the school?	(2 mks)
(i) Apart from doing well in school, what else in the passage shows that M	•
hardworking girl?	(2 mks)
(j) Give the meaning of the following words as used in the passage.(i) Stealthily –	(3 mks)
(ii) Attire –	•••••••••
(iii) Reverie –	
SECTION C: CLOZE TEST (10 MARKS)	••••••
Fill in the blank spaces with the most appropriate word	
I used to enjoy reading horror stories until I realized (1)	much they affected
me. I had to study late in the (2) to prepare for n	ny examination. I used to
be alone (3)the hall when everyone else was (4)	
slight noise frightened me. I imagined that there was (5)	behind me while I
was memorizing the Math's formulae. Every(6)t	he curtains fluttered in the

wind, my heart would skip a (7)		
(8) in goose bumps because able to see spirits that are invisible to the human (10) _		_assumed to
SECTION D: ORAL SKILLS (15MARKS)		
POETRY	41 4 6 11	
(a) Read the poem below and answer the questions	that follow.	
INFANT SORROW		
My mother groaned, my mother wept;		
nto dangerous world I leapt;		
Helpless, naked, piping loud,		
Like a friend hid in a cloud.		
Struggling in my father's head		
Struggling against my		
Swaddling-bands		
Bound and weary I thought best		
Γo suck upon my mother's breast.		
QUESTIONS:		
(i) Describe the rhyme scheme of the above poem.		(2 mks)
	•••••	•••••
ii) Mention two non-verbal cues you would use to enf	•	
•••••		
•••••••••••••••••••••••••••••••••••••••		•••••
•••••••••••••••••••••••••••••••••••••••	••••••	••••••
(iii) Which words would you stress in line five of the pe	oem and why?	(2 mks)
		_
(b) The principal of your school visits your class during You are sited at the front of the class. You note that so		s prefect,

State three observations that are e	•	•		•••••
(d) For each of the following work (i) Queue –	rds, write a wor	d that is pronoun	ced the same as:	(4 mks)
(ii) Male –				
(iii) Him –	,	•••••••••	••••••••••	•••••
(v) Rain –	,	••••••	•••••••••	•••••
••••••			••••••	•••••
SECTION E: GRAMMAR (a) Rewrite each of the following		ith the appropri	ate form of the wo	rd in
brackets			(4 mks)	
(i) The	between Mak	cuyu and Kameno	` '	est challenge
for the people (enemy).	-	J	\mathcal{E}	\mathcal{E}
(ii) There has never been s	uch an	in	our school (occur).	
(iii) The chronic		will eventually	lead to her noor ne	formance
(absent).		_ will eventually	icad to her poor per	Tormanee
(iv) Mr. Makori works in t	he vehicle		department(m	aintain).
			-	
(b) Fill in the blank spaces w				(3 marks)
(i) The three	were	arrested by the po	olice. (passer-by)	
(ii) How many	do	es the computer h	ave? (word-proces	ssor)
(iii) The(commander-in-chief)	are vei	ry powerful in the	armed forces	
(d) Arrange the adjective in the blank spaces.	s given in the	brackets in the r		e them to fill (3 mks)

	(i) They found the (white, metallic, small)	car parked outside the of	fice
	(ii) They talked to the	watchman.(Old, ugly, Co	ongolese)
	(iii) I will buy her a	table (wooden, coffee, bea	utiful)
(e)	Use the correct preposition to co	omplete the sentences.	(3 mks)
	(i) In accordanceequal partners in marriage.	the new constitution, men and wo	men are
	(ii) We need to sit	the shade.	
	(iii) Do not sit	the glass table, it will break.	
(f)	Fill in each blank space with the	e correct collective noun.	(2 mks)
	(i) The whole maize crop was destroyed by a o		custs.
	(ii) A as to acquire the title 'Alhaji'	_ of pilgrims make a trip to Mecca ea	ach year so

	NAME	CLASS
	ADM NO	SIGNATURE
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	FORM 2 END TERM 2 SERI	ES 1 EXAMS
	GEOGRAPHY FORM II, TIME: 2 HOURS	
1.	Answer all the questions in the spaces provided List three types of field work.	(3mks)
•		
۷.	Give four methods of data presentation.	(4mks)
3.	State four negative effects of mining on the environment?	(4mks)

	••••••
1.	State four economic importance of minerals in Kenya. (4mks)

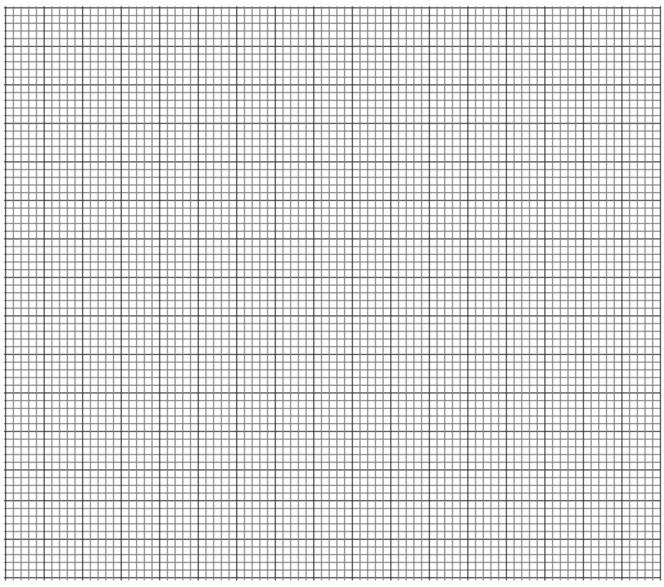
5.	The diagram below show the occurrence of a fossil fuel
	A B
	Name the substances in the area labeled A, B and C. (4mks)

•••••	• • • • • • • • • • • • • • • • • • • •	•••••	• • • • • • • • • • • • • • • • • • • •	•••••
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6. The table below shows petroleum production in thousand barrels per day for countries in the Middle East in April 2006 use it to answer questions.

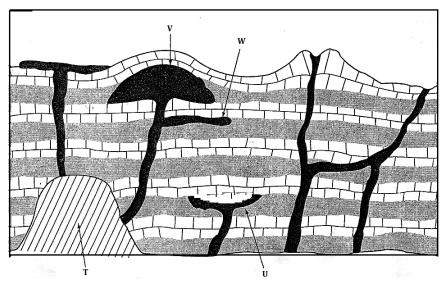
COUNTRY	PRODUCTION IN '000' BARRELS
Iran	3800
Kuwait	2550
Qatar	800
Saudi Arabia	9600
U.A.E	2500
Iraq	1900

a) What in the difference in introduction between the highest and the lowest produce	(1mk)
•••••••••••••••••••••••••••••••••••••••	
b) What is the total amount of petroleum produced in April 2006 in the region?	(2mks)
•••••••••••••••••••••••••••••••••••••••	
•••••••••••••••••••••••••••••••••••••••	••••••
c) What is the mean of petroleum produced in the April 2006 in the region?	(3mks)
d) Draw a simple bar graph to represent the data in the table above. Use a scale of 10 represents 1,000,000 barrels. Use the graph paper provided. (7mks)	em



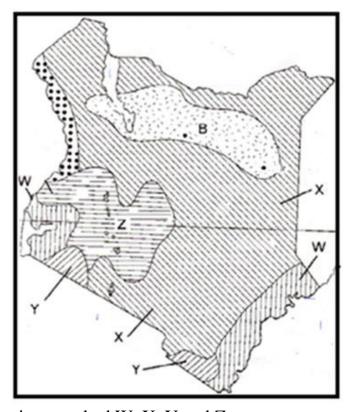
- 7. Draw a diagram to show a simple field and on it mark and name;
 - i) An anticline
 - ii) A limb
 - iii) Syncline. (4 marks)

8. The diagram above represents features as vulcanicity. Use it to answer the question that follows;



(4mks)	a) Name the features labeled T, U, V and W
•••••	•••••••••••••••••••••••••••••••••••••••
•••••	
(2mks)	b) Differentiate between magma and lava.
(2mks)	Name two fold mountain in Africa.

	•••••••••••••••••••••••••••••••••••••••	•••••
10.	What is a photograph?	(2mks)
11.	State three characteristics of ground general view photographs.	
		•••••
12.	What is climate?	
		••••••
13.	Give four factors influence climate.	(4mks)
1/1	The diagram below shows the climatic regions of Kenya.	•••••••••••



a) Identify the climatic regions marked W, X, Y and Z.	(4mks)
	•••••
•••••••••••••••••••••••••••••••••••••••	
b) Describe the characteristics of climate region marked B.	(5mks)
••••••	•••••
•••••••••••••••••••••••••••••••••••••••	
•••••••••••••••••••••••••••••••••••••••	
	•••••

	(a)Differentiate between natural vegetation and secondary vegetation.	(2mks)	
••••		•••••	••
••••		•••••	••
	(b)Outline four factors that influence the distribution and type of natural		
••••	vegetation in Kenya.	(4mks)	. •
		•••••	
••••		••••••	••
••••		•••••••••••••••••••••••••••••••••••••••	•••
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FORM 2 END TERM 2 SERIES 2 EXAMS

FORM 2

HOME SCIENCE (THEORY)

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES

- (i) Write your name and index number in the spaces provided above.
- (ii) Sign and write the date of examination in the spaces provided above.
- (iii) This paper consists of three sections; A, B and C.
- (iv) Answer all the questions in section **A** and **B** and any two questions from section **C** in the spaces provided.
- (v) Answers to all questions must be written in this booklet.

FOR EXAMINER'S USE ONLY

Section	Questions	Maximum score	Candidate's score
A			
В			
С			

This paper consists of 8 printed pages. Candidates should check the question paper to ensure that all the pages are printed as indicated and no questions are missing.

1.	State three areas to study in homescience.	(3 marks)
		• • • • • • • • • • • • • • • • • • • •
		••••••
2.	Name two layers of the skin.	(2 marks)
	•••••••••••••••••••••••••••••••••••••••	• • • • • • • • • • • • • • • • • • • •
3.	Name two classification of household refuse.	(2 marks)
	•••••••••••••••••••••••••••••••••••••••	
4.	Define term drainage.	(1 mark)
	•••••••••••••••••••••••••••••••	
	••••••	• • • • • • • • • • • • • • • • • • • •
5.	Suggest three reasons for drainage.	(2 marks)
	•••••••••••••••••••••••••••••••••••••••	
	•••••••••••••••••••••••••••••••••••••••	
6.	State two disadvantages of poor sanitation.	(2 marks)
	•••••••••••••••••••••••••••••••••••••••	

		••••••
7.	What are communicable diseases?	(1 mark)
		•••••••••••••••••••••••••••••••••••••••
8.	State two important reasons for pressing work during construction.	(2 marks)
9.	Identify the following symbols in garment pattern piece.	(3 marks)
		•••••
		••••••••••••
10	. State two reasons why wool is not suitable for making aprons.	(2 marks)
		•••••
11	. State three importance of learning consumer education.	

12.Suggest the meaning of the following:	•••••••••••
a) Goods	(1 mark)
•••••	•••••
b)Services	(2 marks)
	••••••
	••••••
13.State two types of conspicuous seams.	(2 marks)
•••••••••••••••••••••••••••••••••••••••	•••••
14.What is food fortification?	(1 mark)
	•••••••••••
15. State one way of conserving nutrients during storage.	(2 marks)

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	• • • • • • • • • • • • • • • • • • • •
16. Suggest two advantages of using an electric cooker.	(2 marks)
	•••••
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	•••••
17.Differentiate between rickets and ostomalecia (2 marks)	
	•••••
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18. What are bunions?	(1 mark)
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	• • • • • • • • • • • • • • • • • • • •
19. Suggest two method of finishing a plain seam.	(2 marks)
••••••••••••••••••••••••	
20. Suggest two ways of improving cloths storage facilities.	(2 marks)
	•••••

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SEC	TION B: COMPULSORY SECTION MUST ANWER ALL	
<u>bec.</u>	(20MKS)	<u>'</u>
	our grandmother has invited you to her house to stay overnight. Solen sweater.	You are helping her wash her
(iii)	Explain six steps one should avoid when laundering and d	rving a woolen article
(III <i>)</i>	Explain six steps one should avoid when laundering and d	(6marks)
•••		,
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(i	v) Explain step by step how to launder her white cotton tower	el. (8 marks)
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(v) Explain how to clean her sitting room,	(6 marks)
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SECTION C: CHOOSE AND ANSWER ONLY TWO QUESTIONS IN TH	E SECTION
22.	
a. List four items which can be recycled at our homes.	(4 marks)
b. Identify five activities carried out in management of amoebic dysentery.	(5 marks)
c. Explain three disadvantages of open drainage in an area.	(6 marks)
d. List four laundry processes.	(2 marks)
23.	
a) Discuss three treatments why may be done to clothes and article during the	e rising stage.

c)	List four fabrics which cannot be disinfected by boiling. Discuss three rules for darning. Draw the following washing symbols	(6 marks) (4 marks) (6marks)
d) e) f)	Don't dry in the sun Hang on the line to dry Do not tumble dry Use cool iron	(1 mark) (1 mark) (1 mark) (1 mark)
	24.	
b) c)	Explain three causes of malnutrition List four sources information for the consumers. Discuss three important factors of enriching a teenage girl diet with iron givin List four reasons for wearing shoes	(6 marks) (4 marks) ng food (6 marks) (4 marks)
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JINA	KIDATO
NAMBARI YA USAJILI	SAHIHI
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FORM 2 END TERM 2 SERIES 1 EXAMS

KISWAHILI

KIDATO CHA PILI

UFAHAMU: (ALAMA 15)

Soma kifungu kifuatacho kisha ujibu maswali:

Takwimu zilizothibitishwa zaonyesha kuwa kila sekunde nane mtu mmoja hufa duniani kutokana na utumiaji wa tumbako. Kwa siku basi, watu 10,800 hufa. Wengi wa wavuta sigara huanza katika umri kati ya miaka kumi na mitatu hadi kumi na tisa. Takwimu zaonyesha kuwa mtu akivuta sigara kwa zaidi ya miaka ishirini huupunguza umri wake kwa kati ya miaka 20 hadi 25 zaidi ya ambaye hajawahi kuvuta. Hii ni kwa kuwa tumbako ina zaidi ya kemikali 4,000 zinazodhuru afya.

Mojawapo ya madhara makuu zaidi yanayosababishwa na sigara ni saratani. Kunayo saratani ya ngozi — vidonda visivyopona huchubuka ngozini na baada ya muda hugeuka na kuwa kansa. Iri ya mapafu hutokea vifuko vya hewa vinapopasuka na hivyo kutatiza uvutaji wa oksijeni na utoaji wa kabondayoksaidi. Moshi pia husababisha madhara kwa njia ya kupitisha hewa, yaani umio, ambapo njia hii yaweza hata kuzibika hivyo kulazimu tundu kutobolewa kooni ili mgonjwa aweze kupumua. Kabla ya kufika kooni na mapafuni, moshi hupitia mdomoni. Saratani ya mdomo na ulimi basi hupatikana zaidi miongoni mwa wavuta sigara. Pia kidonda chochote, kwa mfano baada ya kung'olewa jino, huwa vigumu kupona kwa mvutaji sigara.

Kwa wanawake, kuna hatari ya kupatwa na iri ya fuko la uzazi. Madhara kwenye njia nzima ya uzazi huifanya iwe vigumu kwa wanawake wavuta sigara kuhimili. Ni rahisi pia kuzaa njiti. Mtoto wa mvutaji huzaliwa akiwa mwepesi zaidi ya kawaida. Hii husababishwa na kabonimonoksaidi kutoka kwa sigara inayomdhuru mtoto tumboni. Saratani hii husababisha

hata kifo cha mtoto aliye tumboni. Wengine wazaliwapo huwa na hatari ya kupatwa na saratani zaidi ya waliozaliwa na akina mama wasiovuta sigara.

Aina zaidi za saratani zinazowakumba wavuta sigara ni kama vile saratani ya pua, ya tumbo, ya figo, ya kibofu cha mkojo, ya kongosho, ya njia ya kinyesi na hata saratani ya matiti inayowaathiri zaidi wanawake.

Shida za sigara sio saratani pekee; sigara husababisha shida za macho na masikio kwa kiasi kikubwa. Mboni ya jicho yaweza kufunikwa na utando, hali inayoweza kusababisha hata upofu. Macho yaweza kuwashwa na moshi mkali wa sigara au mishipa ya macho iathirike na kemikali zinazofika kwayo kupitia kwa mishipa mapafu yanapoathirika. Masikio nayo huathiriwa na uchafu wa tumbako unaoganda kwenye mishipa hadi sehemu za ndani za masikio. Damu hupunguza mwendo ufaao masikioni hivyo yanaugua. Moshi na kemikali za tumbako pia hujeruhi sehemu za ndani na athari hii yaweza kuenea hadi ubongoni na kusababisha utando unaofunika ubongo. Hali hizi zaweza kusababisha uziwi.

Mifupa na meno huathirika pia. Mifupa huwa myepesi, hukosa nguvu na kuwa rahisi kuvunjika. Mvuta sigara akivunjika mfupa huchukua muda wa asilimia themanini (80%) kupona zaidi ya mtu asiyevuta. Meno nayo hutatizika katika ukuaji wake kutokana na kugandwa na moshi wenye kemikali. Hali hii husababisha harufu mbaya, uchafu pamoja na kuoza kwa meno.

Ngozi ya mvuta sigara hukaushwa na kemikali kwa sahabu uwezo wake wa kujirekebisha na kujilainisha hupunguzwa pakubwa. Hali hii husababisha ukavu unaoonekana pamoja na makunyanzi yanayomfanya mvuta sigara aonekane mzee zaidi ya umri wake. Vidole navyo vilevile hugandwa na kutu ya sigara, nazo kucha na vidole hugeuka rangi vikawa vya manjano, hudhurungi au maji ya kunde. Vidole pia hukaushwa na moto na kemikali ya sigara. Nywele za mvuta sigara pia huathirika kwa kuwa kemikali huipunguza kinga ya mwili hivyo mizizi ya nywele kukosa nguvu. Nywele za mvuta sigara zaweza kung'oka mapema.

Sigara husababisha magonjwa ya moyo na vidonda vya tumbo. Kwa moyo, sigara husababisha shinikizo la damu na hatimaye mshtuko wa moyo waweza kutokea na kusababisha hata kifo. Kwa tumbo, sigara hupunguza uwezo wa kinga zake wa kuikinga dhidi ya asidi zinazosaga chakula. Pia hupunguza uwezo wa mwili wa kujikinga dhidi ya vidonda vya tumboni. Vidonda vya tumbo vya mvuta sigara huwa vigumu kupona na, ni rahisi kutokea tena baada ya kupona.

Kwa mwanamume, mpigo wa damu kwenye sehemu za uzazi huathiriwa. Hali hii ikizidi husababisha hata upungufu wa nguvu ya mbegu kwenye shahawa. Hata ugumba waweza kutokea. Pia watoto wa mwanamke mvuta sigara waweza kuzaliwa wakiwa na kasoro. Mimba zingine zilizotungwa na wanawake wavuta sigara pia hutunguka. Na si hayo tu; madhara ya sigara ni mengi zaidi.

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	(f) Eleza maana ya msamiati ufuatao kama ulivyotumiwa kwenye taarifa.	(alama 1)
	Gandwa	
	MATUMIZI YA LUGHA. AL 35	••••••
1.	Eleza maana ya ishali zifuatazo. (i) Mofimu	(al 2)
	(ii) Viambishi	••••••••••••
2.	Andika kwa wingi sentensi hii;	(al 1)
	(i)Goti la mtoto liliumia	
3.	Bainisha nomino hizi ni za aina gani.	(al 1)
	a. Mzee	
	b. Oduori	••••••••••
4.	Tumia vivumishi vya sifa katika mabano kukamilisha sentensi zifuatazo.	(al 2)
	a. Mtoto yule ni ———— (nene)	
	b. Kiberiti si kifaa — kubeba. (zito)	
5.	Kamilisha sentensi zifuatazo kwa kuchaza viambishi vya upatanisho vya —ing	gine. (al 2)

	a) Mahali —	——kulikobaki ni kwao.	
	b) Mwizi huyo —	——hakupigwa risasi.	
6.	Ziandike upya sentensi zifuatazo ukitu:	ımia 'O'rejeshi.	(al 2)
	(i)Meno ambayo yanamuuma yatatiw	va dawa.	
	(ii) Kioo ambacho kilinunuliwa		•••••••••••••••••••••••••••••••••••••••
	Tambulisha vitenzi visaidizi katika sen Hajaenda kusoma	ntensi hizi.	(al 2)
(b))Niliwahi kumweleza.	••••••	•••••••••••••••••••••••••••••••••••••••
8.	Sahihisha sentensi zifuatazo kimapoke (a) Zizi tuna sisi la ng'ombe kw	eo .	(al 2)
	(b) Kiza cha abunuwasi kwenye	e kisa kinazikitisha.	•••••••••••••••••••••••••••••••••••••••
9.	Andika sentensi zifuatazo kwa wingi. (i)Nitaenda alasiri kumwangalia aliko	oenda.	(al 2)
	(ii) Atamwinda mnyama huyo k	xisirisiri.	••••••

10. Tumia kihusishi kifaacho katika sentensi zifuatazo.		(al 3)
I.	Amechuma matunda ——rafiki yake	
II.	Walikimbia ———swara.	
III	. Tutafanya kazi — wenzetu.	
11. Tun	ga sentensi ukitumia vihisishi ukionyesha hisia zifuatazo.	(al 2)
(a) F	uraha.	
••••		• • • • • • • • • • • • • • • • • • • •
(b)	Dharau.	
	lika kinyume cha vitenzi vifuatavyo. (al 2)	••••••
(i) Tan	dika	
 (ii) Ung	ga	•••••••
	nilisha methali zifuatazo. (al 2)	••••••
(i)	Kawia	•••••
(ii)	Chovya chovya	•••••
(iii)	Isipowasha	•••••
(iv)	Cha kuzama	•••••

14.Kanusha sentensi zifuatazo.(i) Nilimwona akicheza	(al 2)
(ii) Ningalienda kwake ningalimpata.	••••••
15. Tambua kikundi Nomino na kikundi Tenzi katika sentensi zifuatazo.(i) Mwanafunzi amevaa sare safi mno	(al 2)
(ii) Sakafu ile inateleza sana	•••••••••••••••••••••••••••••••••••••••
16.Andika sentensi ifuatayo katika usemi wa taarifa. "Njoo hapa" Asksri alimwita Juma.	(al 2)
17.Unda nomino mbili kutokana na kitenzi safari.	(al 2)
18.Andika kitenzi kifuatacho katika kauli ya kutendeswa. Panga	(al 1)
FASIHI SIMULIZI AL 10 1. (a) Eleza maana ya methali	(al 2)
(b)Fafanua sifa nne za methali	, ,
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	ISIMU JAMII AL 10	
1.	(a) Eleza maana ya sajili ya bungeni.	(al 2)
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(c)	Taja sifa nane za sajili ya bungeni.	(al 8)
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SECTION A (Answer all questions in the spaces provided)

1. Arrange the following sets of numbers in descending order. [2 Marks]

404,044 440,440 440,404 404,444 444,044

2. Prove that 581,526 is divisible by both 9 and 11.

[2 Marks]

3. When a number u is divided by either 36, 24 or 45, the remainder is always 5. Find the least value of u. [3 Marks]

4.	Using mathematical tables, find the cubes of each of the following your answer in standard form. (a) 2341	ng numbers. Leave [2 Marks]
	(b)0.00472	(2mks)

5. Use logarithms tables to evaluate; $\frac{743.1 \times 34.8}{15.6 \times 102.7}$

6. Find the equation of a line that passes through (3, -5) and is perpendicular to a line whose equation is 4x - 5y - 6 = 0 [3 Marks]

- 7. Two similar vases have their heights in the ratio 3:2. What is the ratio of
 - I. Their surface areas

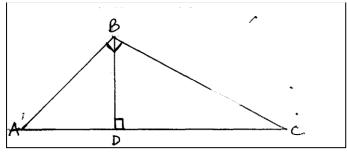
[1 Mark]

II. Their volumes

[1 Mark]

8. A rectangular container measuring 1.2m long, 70 cm wide and 55 cm high is half full of water. All this water is poured into an empty cylindrical tank of diameter 1.4 metres. Find the height to which the water rises. (4 mks)

9. In the triangle below, AB=12cm AC=13cm and ABC=BDC=90^o.



Calculate;

i. The length of BC

[2 Marks]

ii. The length of BD

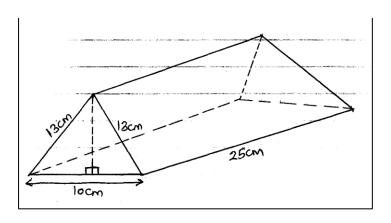
[2 Marks]

- 10. Express as a single fraction in the simplest form; $\frac{x-3}{5} + \frac{2x-5}{4}$
- $\frac{x-3}{5} + \frac{2x-5}{4}$ [3 Marks]

11. The ratio of boys to girls is 3:2. When $\frac{1}{3}$ of the boys and 6 girls are absent, the ratio remains the same. Find the number of students in the class. [4 Marks]

12. The diagram below shows a triangular prism. Determine its total surface area.

[3 Marks]



- 13. The size of the interior angle of a regular polygon is x° and the exterior angle is $(\frac{x-36}{3})^0$
 - f) Calculate the value of x

[2 Marks]

g) How many sides does the polygon have?

[2 Marks]

14. Solve for the value of θ if

[2 Marks]

 $sin sin (2\theta + 30) = cos cos (2\theta + 20)$

15. A triangle measures 16cm by 20cm by 24cm. calculate its area using the Hero's formula. [3 Marks]

16. If a = 8 and b = 36, calculate the value of; $(a^{-\frac{2}{3}} + b^{\frac{1}{2}})^{\frac{1}{2}}$ [3 Marks]

SECTION B (Answer any 5 questions)

17. The table below is a bus timetable for journeys between towns E and J via towns FGH and I. Use it to answer the questions that follow.

Town	Arrival	Departure
E		0500
F	0630	0645
G	0710	0720
Н	0820	0830
Ι	1145	1230
J	1345	

a. At what time does the bus leave town G in 12hr system.

[1 Mark]

b. How long does it take between town E and G.

[1 Mark]

c. In which town does the bus stop the longest and for how long? [2 Marks]

- **d.** If the bus does not stop anywhere;
 - (iii) How long would it take to travel from town E to town J.

[2 Marks]

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[1 Mark]

e. If the distance between town G and J is 400km, calculate the average speed between G and J. [3 Marks]

- **18.** In a certain day secondary school in Vihiga County. There were 500 students. The ratio of boys to girls is 3:2.
 - a) How many more boys than girls are there in the school? [2 Marks]

b) i. One day 10% of the girls and two fifth of the boys went for music and drama festivals. How many students were left in the school?[3 Marks]

	During the Festivals each student was given 100/= and the ecompanying teachers were given 1000/= each for lunch. What expenditure?[2 Marks]	
fe	n a certain morning, ½ of the boys and 0.75 of the girls were sees. Given that each student brought 2500/= the following day, atal amount of money that was collected. [3 Marks]	
19. A lii (i)	the L_1 passes through $(3, -2)$ and $(5,4)$. Determine the gradient of line L_1	[1 Mark]

(iii) Line L_1 cuts x - axis at point P and the y - axis at point Q. determine the co-ordinates of P and Q. [4 Marks]

(iv) Another line L_2 passes through (-3,7) and is perpendicular to L_1 . Determine its equation. [3 Marks]

20. a. Given that the ratio of the areas of two similar solids is 9:25iv) What is the linear scale factor between the two solids? [2 Marks]

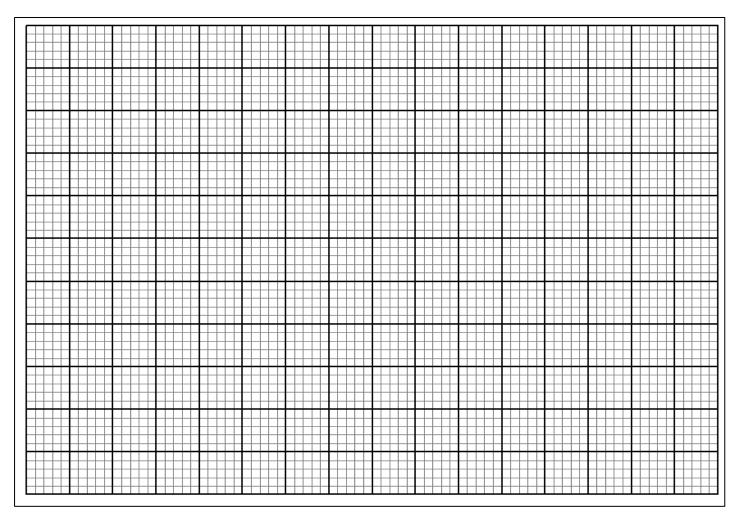
v) If the length of the smaller solid is 1.2m, what is the length of the bigger solid?

[2 Marks]

- **b. The** linear dimensions of a model car are $\frac{1}{16}$ of the dimensions of the actual car.
 - i. What is the area of the windscreen of the actual car if the windscreen of the model car is 3cm²?[2 Marks]

ii. If the capacity of the boot of the model car is 15cm³, find the capacity of the boot of the model car. [2 Marks]

c. The volume of two similar jugs are in the ratio 8:125. surface areas?	What is the ratio of their [2 Marks]
21. A triangle PQR has co-ordinates P(1,1) Q (1,3) R (3,1)	[1 Monk]
a) Plot the triangle in the graph paper provided.	[1 Mark]



- **b)** P'Q'R' is the image of PQR under an enlargement scale factor 2 about origin.
- (i) Plot P'Q'R' in the graph provided.

[3 Marks]

(ii) State the co-ordinates of P'Q'R'.

[1 Mark]

c) P''Q''R'' is the image of P'Q'R' under reflection in the y - axis. Plot P''Q''R'' in the graph paper and state its co-ordinates.

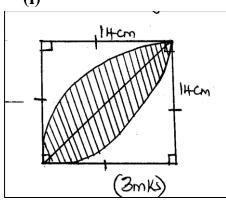
[4 Marks]

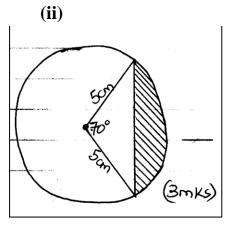
d) Calculate the area of triangle $P^{"}Q^{"}R^{"}$

[1 Mark]

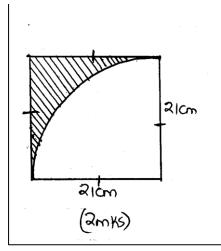
22. In each of the following figures, calculate the area of the shaded regions.

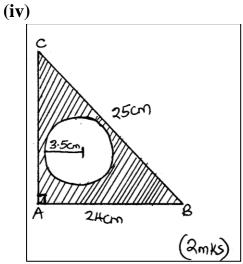
(i)





(iii)





- **23.** Amina bought 3 pens and 2 pencils for shs. 13. Njoki bought 2 similar pens and 1 pencil and spent shs. 5 less than Amina.
- a) Form 2 simultaneous equations to represent the above information [2 Marks]

b) Using substitution method, determine the price of each item.

[3 Marks]

c)	Migwi bought 100 pencils and 150 pens from the same s (i) What was the total cost?	hop. [2 Marks]
	(ii) He later sold all the pencils at a profit of 30% and all to Determine the total profit. [3]	he pens at a profit of 50% Marks]
24.	A bus has a carrying capacity of 52 passengers and a Nisvehicles were used to ferry people from a village to a chufunction. The distance from the village to church is 80km consumption of the bus is 1 litrefor every 8km and the N	arch for a wedding and the fuel

15 km. Fuel costs shs. 15 per litre. The bus made 5 complete round trips and the Nissan made 8 complete round trips with full capacity. If each passenger was paying shs. 100 to be ferried to the function; Find

(i) The total collection made by each vehicle.

[3 Marks]

(ii) The total cost of fuel used by each vehicle.

[2 Marks]

(iii) The net profit made by each vehicle.

[3 Marks]

(iv) The total number of people who were ferried to the function.[2 Marks]

NAME	CLASS
ADM NO	.SIGNATURE
DATE	

FORM 2 END TERM 2 SERIES 1 EXAMS

FORM 2

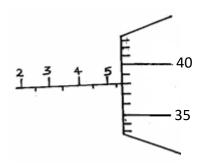
PHYSICS

TIME: 1 HOUR 45 MINS

Answer ALL questions this section in the spaces provided.

SECTION A: (30 MARKS)

1. Figure 1 shows a micrometer with a negative error of 0.02mm used to measure the diameter of a ball bearing.



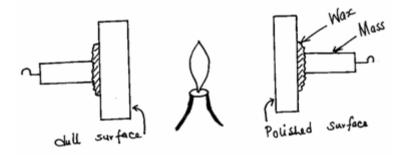
Record the diameter of the ball.

(2mks)

2. An oil drop of volume 0.4mm³ was placed on a clean water surface. It spread to form a monoatomic circular patch of area 2000mm². Use this data to calculate the diameter of a molecule of oil. (3mks)

3. A fixed mass of pure water was cooled from 20°C to O°C. Sketch a graph of density of the water against temperature. (2mks)

4.Two 10g masses are fixed onto two similar aluminium plates, one polished and the other painted black, using wax as shown in the figure **below**.

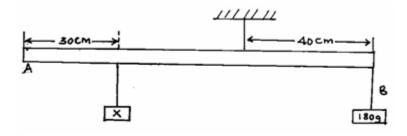


•	(2mks)
	••••••
5. The figure below shows a charged leaf electroscope.	
Given a dry glass rod and silk cloth, explain how you would determine the type o the electroscope.	f charge on (2mks)
6. State two advantages of alkaline accumulator over the lead-acid cell.	(2mks)
•••••••••••••••••••••••••••••••••••••••	•••••

7. The figure **below** shows two magnets whose North poles are brought close to each other. Indicate the magnetic field pattern between the two magnets. (2mks)



8. The diagram shows a system in equilibrium with the uniform rule supported at Q and resting horizontally.

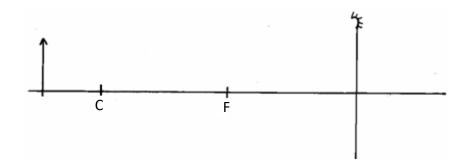


The rule is 1m long and weighs 1.8N. Calculate the weight of the block X. (3mks)

9. An object is placed infront of a concave mirror as shown in the figure **below**.

Complete the diagram to show how the image is formed.

(3mks)



10. State and explain what will happen to the freely suspended magnet when the switch S is closed. (2mks)

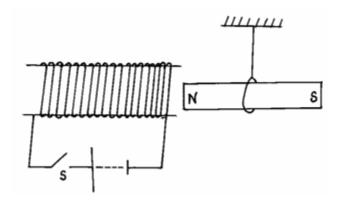
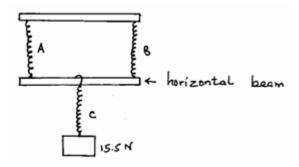


figure below.



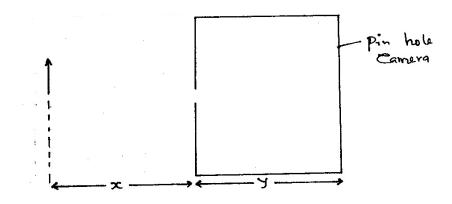
If the weight of the horizontal beam is 0.5N, determine the extension of each spring given that 4N cause an extension of 1cm when using one spring. (3mks)

- 12. State one of the major differences between mechanical waves and electromagnetic waves.

 (2mks)
- **13.** A boat sent an ultrasound signal to the bottom of the sea and its echo received after 10 seconds. If the wavelength of the ultrasound in water is 0.05m and the frequency of the transmitter is 50 KHz, calculate the depth of the sea. (3mks)

SECTION B: (40 MARKS)

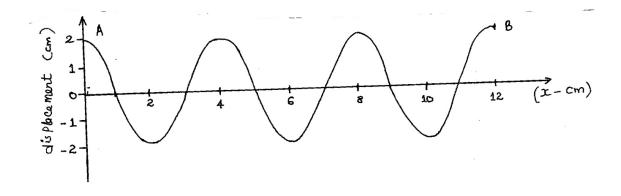
14. (a) Complete the diagram **below** to show how an image is formed in a pinhole camera. (3mks)



(b)	State two characteristics of the image above.	(2mks)
•••••		
•••••	•••••••	••••••
State two	o changes that will be observed about this image if the pinhole is made wider.	(2mks)
••••••		••••••

a. If $\chi = 30$ cm, y = 12cm and the heights of the image is 4cm, calculate the height of the object. (3mks)

15. The diagram below shows the wave profile of a transverse wave.



a) Determine

(i) the amplitude of the wave.

(1mk)

(ii) the wavelength of the wave in metres.

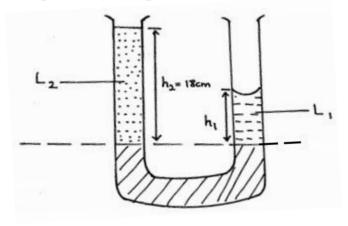
(2mks)

(iii)	othe period of the wave if it takes 1.5 seconds to move from A to B .	(3mks)
-	Calculate: the frequency of the wave.	(2mks)
(ii)	the velocity of the wave.	(2mks)
16. (a)	What is diffusion?	(2mk)
(c) As	moke cell contain a mixture of trapped air and smoke. The cell is brightly lit and viewed through a microscope. State and explain observed. (2mks)	what is

•••••••	
•••••••••••••••••••••••••••••••••••••••	• • • • • • • • • • • • • • • • • • • •
 c) A beaker is filled completely with water. A spoonful of common salt is added The salt dissolves and the water does not overflow. (i) State why the salt is added slowly. 	slowly.
ii) Why doesn't the water overflow?	(1mk)
d) In the figure below, ammonia gas and acid gas diffuse and react to form a deposit on the walls of a long glass tube as shown. Ammonia gas White deposit	white
(i) What conclusion can be made from this result of this experiment?	(1mk)

••••	(ii)	How does the density of a gas affect the rate of diffusion?	(1mk)
ha	e) T wappen t	The experiment is performed at a lower temperature. State and expla would to the rate of diffusion of the gases.	ain what (2mks)
17. (a)	Give	e four differences between mass and weight.	(4mks)
(b)	Sate	Pascal's Principal.	(1mk)
	Nam	ne two applications of Pascal's Principle.	(2mks)

(d) Figure 3 shows a U-tube containing two liquids L_1 and L_2 of densities 1.6g/cm^3 and 0.8g/cm^3 respectively in equilibrium.



Given that $h_2 = 18$ cm, determine the value of h_1 .

(3mks)



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