### FORM 3 END OF TERM II HOLIDAY HOMEWORK

### KENYA EDUCATORS CONSULTANCY ASSESMENTS

A Compilation of Assessment & Revision Questions Covering the syllabus upto the End of term 2 as per the curriculum design

**ALL SUBJECTS TESTED** 

All the learners should attempt the questions at the back of their exercise books and revise the questions by the use of the marking schemes provided during the August 2023 Holidays!





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# AGRICULTURE FORM 3 HOLIDAY ASSIGNMENT BOOKLET (Volume 1) (Questions)

### **SECTION A: 30 MARKS**

### ANSWER ALL QUESTIONS IN THIS SECTION.

1.	State	<b>four</b> characteristics of extensive farming systems.	(2 marks)
2.	Give disco	d preparation is (2 marks)	
3.	State	four physical factors in soil formation.	(2 marks)
4.	Give	the meaning of the following terms as used in crop pr	roduction.
		Crop rotation	(3 marks)
	b.	Pruning	
	c.	Rogueing	

5.	State	<b>four</b> factors that determine the depth of planting.	(2 marks)
6.		one crop that is propagated by each of the following.	(1/
		Stem tuber	(½ mark)
	b.	Split	(½ mark)
	c.	Slip	(½ mark)
	d.	Bulbil	(½ mark)
7.	Name	<b>four</b> light breeds of chicken in poultry rearing.	(2 marks)
8.	State	four harmful affects ticks on livestock.	(2 marks)
9.	Differ	rentiate between cropping and harvesting in fish farming	ng. (2 marks
10	List <b>tl</b>	aree maintenance practices carried out on a fish pond.	(1 ½ marks)
11	State	three functions of vitamins in an animal's body.	(1 ½ marks)

2.Give 	four reasons why farmers invest in Agriculture.	( 2 marks
produ	nguish between the following pair of terms as used action.  Seed dressing and seed inoculation.	in crop (1 mark)
b.	Under sowing and over sowing.	(1 mark)
4.State 	four factors considered while sitting an apiary.	(2 marks)
	two reasons for each of the following.  Nitrogenous fertilisers should not be used during mark)	planting. (1

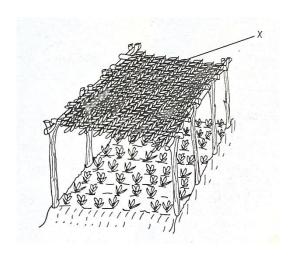
	NSWER ALL		NS FROM T	THIS SECT					
Follow	ram below sho			_					
Daily fe	eeding record for	or the month	of						
Emerpi	ise	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • •	•••••	• • • • • • • • • • • • • • • • • • • •				
Type of	Type of feed								
Date	No of	Amount	Amount	Balance	Remarks				
Date	animals	received (kg)	used	in stock	Kemarks				
		8/							
ı. Identi	ify the type of t	farm record a	bove.		(1 mark)				
	5 <sup>th</sup> June 2021, I	Zocho farm r	eceived 120	kas of Lave	 rs mash 40ka				
1 ()n 1 <i>t</i>	e feed was give			-	_				
	aformation to fill in the above table.								
of the	•	the above ta	ıble.		(3 marks				

18.Below is an illustration of an internal parasite in livestock. Study it and use it to answer questions that follow.



a.	Identify the parasite.	(1 mark)
b.	Name <b>one</b> intermediate host and one final host for the (2 marks) Intermediate host	parasite above
	Final host	
c.	Outline <b>two</b> control measures for the above parasite.	(2 mark)

19. The following is an illustration of a structure used in crop propagation. Study it and use it to answer questions that follow.



a.	Identify the structure.	(1 mark)
b.	What is the function of part labelled X on the above structural mark)	cture. (1
c.	Why is it recommended to remove part labelled X one w transplanting.	eek before (1 mark)
d.	State <b>two</b> advantages of using the structure illustrated abomarks)	ove. (2
	SECTION C: 40 MARKS. ANSWER ANY TWO QUESTIONS FROM THIS SE	ECTION.
20.		
a.	Outline precautions that should be taken into account wh workshop tools.	en using (6 marks)
b.	Discuss <b>six</b> reasons for carrying out minimum tillage.	(6 marks)
	Explain <b>four</b> ways in which soil losses fertility.	(8 marks)
a.	Describe <b>seven</b> field management practices in tomato promarks)	oduction. (7

- b. Outline **five** factors that determine water requirements in an animal's body. (5 marks)
- c. Describe the transplanting of tree seedlings. (8 marks)

22.

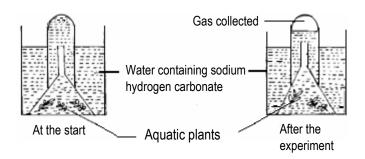
- a. Outline **six** reasons why bees swarm beehive. (6 marks)
- b. Explain **six** signs that will indicate a sow is on heat. (6 marks)
- c. Discuss **eight** factors considered when selecting a breeding stock. (8 marks)

# BIOLOGY FORM 3 HOLIDAY ASSIGNMENT BOOKLET (Volume 1) (Questions)

### **SECTION A 40 MARKS**

1.	(i) What biological knowledge or study is required in dealing with locusts that	infest a
	maize crop.	(1 mark)
	(ii) State the functions of the following call structures	(2 montra)
	(ii) State the functions of the following cell structures.	(2 marks)
	(a) Sap vacuole.	
	(b) Nucleolus.	
2.	Which <b>two</b> classes of phylum arthropoda that have their head fused with the th	orax?
		2 marks)

3. The set up shows an experiment to investigate photosynthesis.



	(a) What gas was collected in the test tube?	(1 mark)
		•••••
	<ul><li>(b) What was the role of sodium hydrogen carbonate in the experiment?</li></ul>	
		•••••
4.	State <b>three</b> adaptations of the phloem tissue.	(3 marks)
		• • • • • • • • • • • • • • • • • • • •
5.	Name <b>three</b> properties of the cell membrane.	(3 marks)
		•••••

6.	Name <b>two</b> enzymes and <b>one</b> metal ion that are needed in the blood clotting process.(3
	marks)
	Enzymes.
	Metal ion

7. Study the diagrams below carefully and use them to answer questions that follow







(i) To which phylum does organisms x,y and z belong to.

(1 mark)

	••••••
(ii) Name the classes to which X, Y and Z belongs to.	(3 marks)
	• • • • • • • • • • • • • • • • • • • •
	• • • • • • • • • • • • • • • • • • • •
	(0 1)
(iii) Give two important economic roles of specimen Y.	(2 marks)
	• • • • • • • • • • • • • • • • • • • •
	• • • • • • • • • • • • • • • • • • • •
(iv) Give two harmful effects of specimen X to animals.	(2 marks)
	••••••
What happens when respiration exceeds photosynthesis in the guard cells of	terrestrial
plants?	(3 marks)
	• • • • • • • • • • • • • • • • • • • •

8.

••••••	
9. State three features that a grasshopper, a crab, a spider and a millipede have in	common. (3 mark)
10. The figure shown below represents a kidney nephron. Use it to answer the question follow.	estions that
(a) (i) What structural difference exist between <b>W</b> and <b>Z</b> ?	(1 mark)
(ii) State the significance of the difference stated in (a) (ii) above.	(1 mark)

(b) State <b>three</b> adaptations that enable <b>P</b> to perform its function.	(3 marks)
11. $5C_{51} H_{98} O_6 + 145 O_2$ Energy + $102 CO_2 + 98 H_2O$	
The above equation shows an oxidation reaction of food substances.	
a) What do you understand by the term respiratory quotient?	
	(1 mark)
b) Determine respiratory quotient of the oxidation of food substances.	(2 marks)
	• • • • • • • • • • • • • • • • • • • •
c) Identify the food substances.	(1 mark)
-,	
	• • • • • • • • • • • • • • • • • • • •
•••••	

### SECTION B:(40 MARKS)

ANSWER QUESTION 12 (COMPULSORY) AND EITHER QUESTION 13 OR 14 IN THE SPACES PROVIDED AFTER QUESTION 14.

12. An experiment was carried out in which red blood cells were put in salt solutions of different concentrations. The table below shows the percentage of cells which were destroyed by haemolysis in different salt concentration.

Salt concentration	% of RBC destroyed
(g/dm³)	By haemolysis
0	100
1	100
2	100
2.5	100
3.0	100
3.5	96
3.7	80
4.0	60
4.5	16
4.7	0
5.0	0
6.0	0

(a) Draw a graph of percentage of red blood cells haemolysed against salt concentration	
	(6 marks)
(b) Explain haemolysis of red blood cells.	(3 marks)

	(c) From the graph, state:	
	(i) the salt concentration at which 50% red blood cells were haemolysed.	(1 mark)
	·	
	(ii) the highest salt concentration when the largest number of red blood cells v	vere
	haemolysed.	(1 mark)
	·	
		• • • • • • • • • • • • • • • • • • • •
(d)	(i) Suggest the normal salt concentration in the blood of the mammal from when the suggestion of the mammal from which is the suggestion of	hich the red
	blood cells were obtained.	(2 marks)
	(ii) Give a reason for your answer in (d) (i) above.	(1 mark)
	(iii)What term is used to describe the solution with equal solute concentration	as that of
	the cells?	(1 mark)
(e)	Name the process in the human body that ensures that haemolysis of red blood	d cells is
(0)	prevented.	(1 mark)
	prevented.	(1 mark)

	•••	
(f)	State the role of osmosis in organisms.	(4 marks)
		•••••
13.	. Explain the adaptation of the small intestine to their functions.	(20marks)
14.	. Describe the	
	(i) Process of inhalation in mammals	(10 marks)
	(ii) Mechanism of opening and closing of stomata	(10 marks)
•••		
•••		•••••
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• • •		•••••

## BUSINESS STUDIES FORM 3 HOLIDAY ASSIGNMENT BOOKLET (Volume 1)(Questions)

	State wil	ether each of the following a	ctivities would satisf	y basic of secondary want	
				(4 marks)	
		Activities	Basic	Secondary	
	(a)	Buying clothes for the family.			
	(b)	Transporting milk.			
	(c)	Providing food for school children.			
	(d)	Entertaining the President.			
	Outline i (a) _ -	four reasons why a new busin	-	(4 marks)	
1	(b) _				
	(c) _				
	(d) _	_			
	Outline <b>four</b> advantages a consumer enjoys when he/she buys directly from a manufacturer. (4 marks)				
	(a) _				

	(c)	
	(d)	
4. Hig		our reasons for the continued existence of small scale businesses in an
		(4 marks)
	(a)	
	(b)	
	(c)	
	(d)	
5.	Boda	poda/motorcycles have become popular in Kenya today. Outline <b>four</b> demerits
	of this	mode of transport. (4 marks)
	(a)	
		<del></del>
	(b)	
	(c)	
		_
	(d)	
6.	Highli	ght <b>four</b> circumstances under which deferred payment is acceptable to a trader.
		(4 marks)

(a)		
(b)		
(c)		
(d)		
7. Outline <i>four</i>	principles of cooperatives.	
(a)		
(b)		
(c)		
(d)		
8 State the h	est type of machine one would use to perform	n the following tasks (4 marks)
8. State the be	est type of machine one would use to perform	Type of machine
a)To	trim papers to the required sizes.	
	fold documents, put them in envelopes eal team.	
c)To	make exact copies of a certain original	
docui d)To	arrange papers in a required order.	
9. Outline (a)	e four factors that may cause the supply curv	e to shift to the left. (4 marks)

_	
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our aircumstances for dissolution of a partnership	(Amortza)
	(4marks)
<del></del>	
<del></del>	
<del></del>	
four disadvantages of using television in advertising organ	ization's products.
	(4 marks)
	(Timarus)
<del>_</del>	
<del></del>	
	Dur circumstances for dissolution of a partnership.  — — — four disadvantages of using television in advertising organ — — — — — — — — — — — — — — — — — — —

	(a)		
		_	
	(b)		
	(0)		
	<i>(</i> )		
	(c)		
	(d)		
13.	State fo	our roles of the Nairobi stock Exchange market	(4marks)
	a)		
	b)		
	-,		
	c)		
	d)		
	entify ea marks)	ch of the terms given to the following statements as used in insu	rance.
a)	Tempora	ary certificate	• • • • • • • • • • • • • • • • • • • •
b)	Periodic	e payment by policy holders	
U)	1 CHOUIC	payment by poney noiders	•••••
c)	Acquirii	ng rights of the remains of destroying property by the insurer	
d)	Life ins	urance lasting for a specific period	

15.	State	State <b>four</b> factors that influence demand of a product in the market (4 marks)				
	(a)					
	(b)					
	(c)					
		<del>_</del>				
	(d)					
16.	Outlin	ne <b>four</b> circumstances under which insurance companies in Kenya may reinsure.				
		(4 marks)				
	(a)					
	(b)					
	(c)	<u> </u>				
	(d)					
	(u)	_				
17.	Highligh	t four advantages of a bonded warehouse to the government. (4 marks)				
	(a)					
		_				
	(b)					
		<del></del>				
	(c)					
		_				
	(d)					
		<del>_</del>				

18.	State	<b>four</b> ways in which the utility of a commodity can be increased. (4 marks)
	(a)	
		<del></del>
	(b)	-
		<del></del>
	(c)	<u> </u>
	(d)	
19.	Identi	fy <b>four</b> benefits that may accrue from political stability in a country. (4 marks)
	(a)	
	(b)	
	(c)	
	(d)	
•	7.1.0	_
20.	List fo	<b>our</b> ways in which the government creates an enabling business environment.  (4 marks)
	(a)	
	(b)	
	(0)	_
	(c)	
	(J)	
	(d)	

Section B Answer any two questions in this section		
21.	Explain FIVE features of an oligopoly market structure.	(10 marks)
		·

<del></del>	
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_	
22. Explain <b>five</b> external factors that may influence the operations o	f a business
negatively.	
	(10marks)
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23. Describe five functions of an office in a business organization	(10 marks)
<del></del>	
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## CHEMISTRY FORM 3 HOLIDAY ASSIGNMENT BOOKLET (Volume 1)(Questions)

1. An elem	ent K has atomic number 20 while element M has atomic number 8.
a) V	Write the electronic configuration for K and M
H	K
	(1/2)
N	M
	( $^{1}/_{2}$ )
b) \	Write the symbol of the most stable ion of K and M
F	ζ
	(1/2).
N	М
	(1/2)
2. Molten	Lead(II) bromide is electrolyzed using carbon electrodes. Write the half cell
equation	of the reactions that occur at the anode and the cathode.
a) Anode	
•••••	

b)	o) Cathode			
	(1mrk)			
4.	4.			
	ThreemetaloxidesXO,YO,an	ndZOareheatedwithpo	owderedmetalY.Hotpowder	edYwillre
	move			
	oxygenfromXObutnotfromZ	O.Arrangethemetals	norderofreactivity,startingv	viththemost
	reactive.1mark			
4	5.The table below shows the r	elative atomic masse	s and the percentage abund	ance of the
j	isotopes T <sub>1</sub> and T <sub>2</sub> of element	T.		
		RAM	% abundance	
	$T_1$	62.93	69.09	
	$T_2$	64.93	30.91	

(1mrk)

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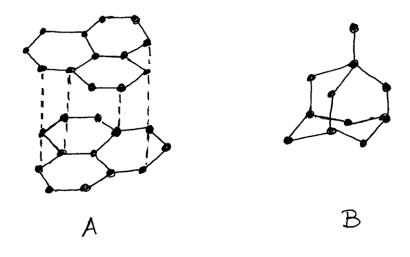
[3mks]

Calculate the relative atomic mass of element T

••••		•••••
•••••		
6. Tł	ne diagram below is a set-up for the laboratory preparation of oxygen gas.	
	Hydrogen Peroxide.  Oxygen g	ce S
a.	Name solid	
	P	•••••
	[1 mk]	
b.	Write a chemical equation for the reaction that takes place in the conical	flask
	[1 mk]	
c.	Give two commercial uses of oxygen	[1 mk]

i	
	• • • • • • • • • • • • • • • • • • • •
7. The figure shows a set-up by a form three student to prepare a certain gas	
Gas K  Water  Calcium Metal	
a) Write a chemical equation for the formation of gas K	[1 mk]
b) Give one use of gas K in the industries	[1 mk]
c) Give one use of the resulting solution after the metal has reacted	(1 mk)
8. The diagram shows the structures of two allotropes of carbon. Study them	and answer

the questions that follow.



a.	Name allotrope A and B	[2 mks]
	A	
	В	
e.	Give two uses of allotrope B	[2 mks]
	i	
	ii	•••••
	Which allotrope conducts electricity? Explain.	[2 mks]
		•••••
• • • •		

Permanent.	Temporary.

9. State two differences between permanent and temporary changes (2 marks).

Permanent.	Temporary.

10. The table below gives some properties of substances  $I, \mathbf{J}$  and K. Study it and answer the questions

that follow.

Substance.	Melting point	Solubility in	Electrical Conductivity in:	
	$\begin{pmatrix} 0_{\mathbf{c}} \end{pmatrix}$	Water.		
			Solid state.	Molten state.
I	1063	Insoluble	Conducts.	Conducts.
J	113	Insoluble	Doesn't t	Doesn't
K	402	Sparingly soluble.	Doesn't t	Conducts and it is
				decomposed.

(a) Suggest the type of structure in:
I(1 mark).
K(1 mark).
(b) Explain why molten K is decomposed by current but I is not decomposed.
(1 mark).
11. Solution R, S and T have pH values shown in the table below.

Solution	Ph
R	1.0
S	6.5
T	8.0

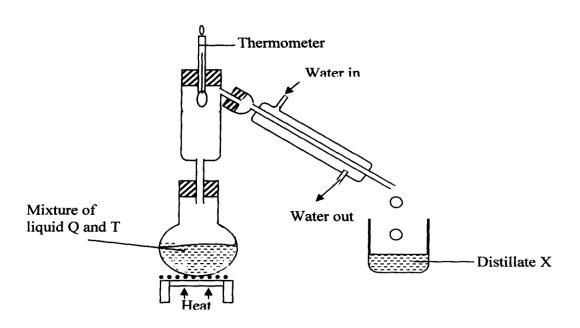
(a)Wh	at do you	deduce about	the nature	e of solution	n R?	(1 mark).			
						•••••		 	
(b)Ide	entify two	solutions that	will react	to form a	neutral so	olution.(11	mark).		
12	2. Study t	he diagram bel	ow and an	swer the q	uestions	that follow	<b>7.</b>		
									Е
A	В			С				D	

•
)

	· • • • • • • • • • • • • • • • • • • •
c) Explain the differences in the melting points of A and B.	(2mks)
d) Compare the reactivity of element D and H.	(2mks)
a, conput de razant, or elenzar 2 dara	, ,
	· • • • • • • • • • • • • • • • • • • •

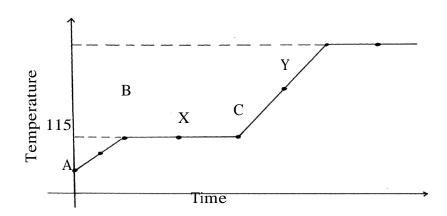
13. The set up below was used to separate two miscibleliquids

QandT (Bolingpoints;Q=98°C,T=78°C)



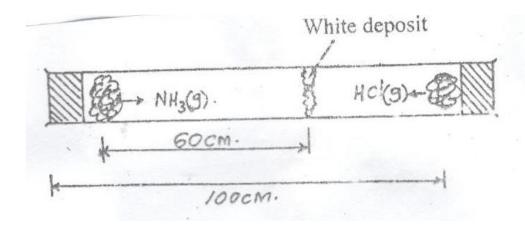
(a)Identify the mistakes in the setup above(2mks)

	• • • • • • •	
	• • • • • • • •	
(b)Identify Distillate X (1mk)		
	•••••	
14. The diagram below show the heating curve of a substance .S	Study it a	and answer
the questions that follow:		
444	D	Z



a)What is the melting and boiling point of the substance?(1mk)	
b)Explain what happens to the melting point when sodium chloride is added to this	3
substance.	(2mks)
	• • • • • • • • • • • • • • • • • • • •

15. Two pieces of cotton wool were separately soaked in concentrated Ammonia and Hydrochloric acid solution respectively. Then, were simultaneously placed at the end of an open-ended tube.

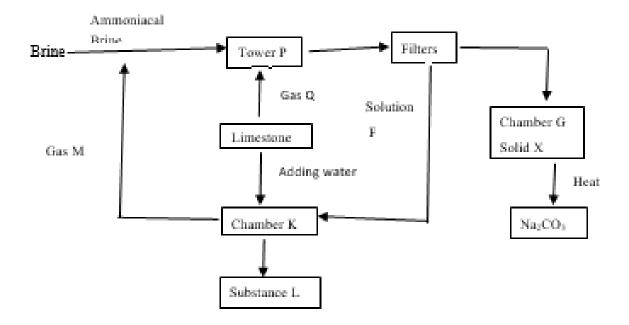


- a) Name the white deposit. (1 mark).
- b) Workout the relative rates at which Ammonia (NH<sub>3</sub>) and Hydrogen chloride (HCl) gas diffuse. (N=14, H=1,Cl=35.5) (2mark).

c) Name the gas law that explains the differen	nce in the rate of diffusion. (1 mark)	
16. a )What is allotropy?		(1mk)
b)A burning magnesium continues to burn i	inside agas jar full of carbon(IV)oxide.Explain	1.
(2mks)		
17. Calculate the number of moles present	in:	
a)12g of sulphur (S=32)	(2mks)	
b) 9.8g of sulphuric acid	(S=32,O=16,H=1)	(2mks)

18. When dry hydrogen gas passed over heated Lead (II)oxide in combustion tube, agrey so	olid was
formed.	
Combustion Lead (ii) oxide  tube  Blue flame  gas  Heat	
a) Identify the grey solid.	(1mk)
b) Write the equation of the reaction taking place in the combustion tube.	(1mk)
c) Write the equation involving the blue flame.	(2mks)
19. a) State Charles' law	(1mk)
b) The volume of a sample of nitrogen gas at temperature of 298kand 600mmHgpressure w	vas0.048m <sup>3</sup> ,

calculate the temperature at which the volume of the gas wouldbe0.032m <sup>3</sup> if	pressure remains the
same.	(2mks)
20. Some sodium chloride was found to be contaminated with copper(II)ox	tide. Describe how asample
of sodium chloride can be separated from the mixture.	(2marks
21. Laboratory results showed the composition of acompound to be 58.81% b	parium,13.72%,sulphur and
27.47% Oxygen. Calculate the empirical formula of the compound. Ba=137, S	S= 32,O= 16. (2mks)
	•••••
	•••••
22. The flow chart below shows industrial manufacture of sodium carbonate	e by Solvay
	c by Solvay
process. Study it and answer the questions that follow.	



i)	Name		
	I.	Gas Q	(½mark) II.
	Gas	M	(½mark) III.
	Solu	ntion F(	½mark)
	IV.	Substance L	(½mark)
ii)	Write	e a chemical equation for the reaction that occurred;	(1mark)
	I.	Chamber K	
••••			
••••	II.	Heating solid X (1ma	
iii) 		two use of sodium carbonate.	(2mks)
	 3. 20cm <sup>3</sup>	of Hydrochloric acid requires 25cm <sup>3</sup> of 0.2M Sodium hydrox	
	(i) Ca	alculate the moles of Sodium hydroxide solution in the reaction	n. (2mks)

	(ii)	Calculate the Molarity of Hydrochloric acid. (2mks	)
••••	•••••		
••••	•••••		
••••	•••••		
24.	The diagra	am below represents a burning jiko.	
		Blue flame C B Air in Ash	
		vn the equation for the reactions taking place at;	(2marks)
	В		
	C		
	••••••		
b)	Why is it	dangerous to use a jiko in a closed room?	(1mark)
25.	Draw and	name the apparatus that can be used to separate a mixture of water and kerose	ne. (2mks)

26. De	escribe how you can prepare a dry sample of lead (II) sulphate using the following reagents. (2mks)
•	Dilute nitric(v)acid
•	Solid lead(II)oxide
•	Solid sodium sulphate
• • •	

# COMPUTER STUDIES FORM 3 HOLIDAY ASSIGNMENT BOOKLET (Volume 1)(Questions)

1.	Classif	fy computers according to functionality.	(6 Marks)
2.	a)	State four data types used in MS Excel.	(4 Marks)
	i.		
	ii.		
	iii.		
	iv.		
	b)	State any five examples of spreadsheet software.	(5 Marks)
	i.		
	ii.		
	iii.		
	iv.		
	٧.		
3.	Outlin	e two functions of a UPS.	(2 Marks)
	i.		
	ii.		

	Explain	the functions of the following keyboard keys.	(6 Marks)
	a)	Caps lock key	
	b)	Enter key	
	c)	Tab key	
	C+-+- +I		(2.84-uls)
	State tr i.	nree application areas of spreadsheet software .	(3 Marks)
	ii.		
	iii.		
	in stora	y five rules to be observed so as to avoid accidental loss o ge media.	f data or information held (5 Marks)
	i.		
	ii.		
	iii.		
	iv.		
	V.		
í	a)	What is <b>line spacing</b> as used in Microsoft Word?	(2 Marks)
•			

7.

	i	any three line spaci				Marks)
8. (a) \ 	What are co	mputer scanning de	evices?		(2 ma	ırks)
(t	o) Name the	type of scanner use	ed:			
(i)	To capture	prices of goods at p	points of sale t	erminals in su	permarkets and s	superstores. (1 Mark)
 (ii	i) To grade r	nultiple choice exar	mination.			(1 Mark)
9. Explain	the followin	g terms as used in v	word processi	ng:		
i)	Formatting					(2 Marks)
ii)	Thesaurus					(2 Marks)

	iii) M	ail merging		(2 Marks)
10.	(a) W	/hat is a Drive?		(2 Marks)
	(b) S		oes of computer drives	(2 Marks)
11. St	ii. ate any		f images in word processors.	(3 Marks)
	i. ii. iii.			
			en the following keyboard keys are pressed wh	nen using word (4 Marks)
	i)	CTRL + B		
	ii)	CTRL +A		
	iii)	CTRL + V		
	iv)	CTRL+ U		
13. W	hy is it	necessary to spe	ecify the correct paper size before printing?	(2 Marks)
	ame thr	ee special purpo	ose memories found either inside or outside th	e microprocessor. (3 Marks)
i. ii.				
iii.				

15. (a) Job sch	vhat is meant (2mks)	by		
(b)	Expla	in three types of user interfaces.	(6mks)	
16. (c)	Descr	ibe the following categories of software.	(4mks)	
	(i)	Firmware.		
	(ii) 	Proprietary software.		
17	State	four factors to be considered when preparing a computer laborat	ory. (4 Marks	s)
		i		

40	ii. iii. iv.		The control of the College	
18.	Study the spreadsh	eet below and answer	the questions that follow:	
a) 		cell G2 to compute TC	OTAL score for Brenda.	(4 Marks)
b)		cell H2 to compute MI		(4 Marks)

	А	В	С	D	Е	F	G	Н	I
1	NAME	ENG	KIS	MATH	BIO	COMP	TOTAL	AVERAGE	GRADE
2	Brenda	88	90	95	68	70			
3	Margaret	65	78	70	65	90			
4	Paul	86	82	80	95	75			
5	Ryan	75	70	80	88	85			
6	Lee	80	90	92	85	90			

19. Outline any five characteristics of the First Generation Computers: (5 mks)

i.	
ii.	
iii.	
iv.	
IV.	

	V.		
20.	For eac	ch of the following devices, state three examples.	(9 mks)
a)	Pointin	g devices	
	i. ii. iii.		
b)	Softcop	by output devices	
	i. ii. iii.		
c)	Optical	scanning devices	
	i. ii. iii.		

# CHRISTIAN RELIGIOUS EDUCATION FORM 3 HOLIDAY ASSIGNMENT BOOKLET (Volume 1)(Questions)

- 1. a) List down six of the Pauline letters (6mks)
  - b) Identify eight activities performed by God in the second account of creation Gen 2:4-25 (8mks)
  - c) How has man failed to take up their responsibility as outlined in the Biblical creation accounts? (6mks)
- 2. a) Discuss ways in which God rewarded Abraham's faith (7mks)
  - b) What conditions did God expect the Israelites to fulfill during the renewal of the] covenant? (8mks)
  - c) State five ways in which Christians show their commitments to God today (5mks)
- 3. a) State the factors which led to schism after the death of Solomon. (7mks)
  - b) Outline the forms of punishment prophesied to Ahab and queen jezebel (8mks)
  - c) Why are church leaders rejected today?(5mks)
- 4. a) Mention seven ways in which the old testament prophets communicated their messages (7mks)
  - b) What message of hope does prophet Amos give to Israel if they turned back to God?

(7mks)

- c) State six ways in which modern Christian may invite Gods punishment on them (6mks)
- 5. a) Identify <u>Seven</u> factors that promote harmony and social responsibility in traditional African Communitie(7 MS)
- b) Mention <u>Seven</u> factors that influence the naming of children in African Traditional Society (7MKS)
- c) Show how modern trends have affected burial rites in African Traditional Society. (6MKS)

- 6 a) Give reasons why sacrifices are made in traditional African Society (7mks)
  - b) Outline practices which show belief in life after death in traditional African society

(8mks)

c) What are the factors that have promoted changes on African community? (5mks)

# ENGLISH FORM 3 HOLIDAY ASSIGNMENT BOOKLET (Volume 1)(Questions)

## FUNCTIONAL WRITING -20 MARKS

You were invited to your cousin's wedding at <b>Amukura parish</b> but you can't travel from Nairobi due to lockdown because of covid-19. Write a suitable reply declining the invitation.				

CLOZE TEST – 10 MARKS
Fill the blank and are in the magnetic below with the most appropriate would 10 months
Fill the blank spaces in the passage below with the most appropriate word. 10 marks
Working from home due to the covid-19 pandemic has slowed 1many activities
more-so the education sector here in Kenya. Most sectors have been 2 to embrace
digitization. The shift to online classes in the institutions of higher learning was
3for, especially, the older people as they don't
have the 5to use digital gadgets such as smart phones and laptops
6those who have them are frustrated by the emerging apps and software. 7
have embraced digitization and are eager to learn. But the lecturers have
problems. 8 have phones with poor cameras as they are alright with just
calling and receiving texts. You'll find a lecturer asking if the students can 9
him or her. They mute the mic unknowingly and can't mute 10guided,
min of her. They mute the fine unknowingry and can't mute 10guided,
which waste a lot of time.

## ORAL SKILLS (30 MARKS)

## Read the following narrative and answer the questions after:

One day in June, Hare started bragging to the world in jungle land about his talents and abilities "I'm so fast" he said, "that I can beat anyone who wants to race with me. I'm Mr. Hot stuff on

the track."

Tortoise blazed at Hare through drooping eyelids. "Alright", said Tortoise. "I'll take you up on it, I think I can beat you. Let's do it."

"You?" exclaimed Hare astonished.

"Why, you're slower than an elephant asleep stuck in the mud. I can beat you ten times before you go three feet."

"Insult me if you want", replied Tortoise. "I have a hard shell. But hold up on the bragging and boasting until the race is over. You never know, you know"

They decided to race for a distance of a mile, Giraffe acted as the starter. "Ready? On your marks! Go!" barked the Giraffe.

Hare took off like a tornado, rounding the bond in a few seconds. He felt the race was such a joke. He decided to take a little nap. He fell asleep and dreamed about the fields of kales.

Tortoise chugged along at a determined, steady pace, very slowly. Eventually, she lumbered past Hare. Sharp observers noticed a faint odd smile on her face and a slight twinkle in the eyes beneath the droopy eyelids. Meanwhile, the snoring hare dreamed about the luscious kales. A thunderclap awoke him. The sky was cloudy until the sun was setting.

Hare leaped up, rubbed the sleep out of his eyes, and zoomed down the road. When he got to the finishing line, the crowd of chimpanzees was cheering Tortoise on. Tortoise inched over the finishing line, a foot ahead of speeding Hare.

She was victorious!

"Eat my dust Bunny Boy!" said Tortoise

"You can eat your smart words for dinner, too."

Hare was too embarrassed for words. She shrunk back to his house, somewhat educated in the school of experience.

i)	State two ways in which you can begin telling this story during a live performance.  (2marks)
i)	If you were part of the audience for this story, explain two things you would do to show that you are participating in the story. (2marks)

ii) Explain how you would say the statement "You can eat your smart words for dinner,

	too.	"(2 marks).	
•••			
b)		each of the following words provide another word pronounced the same.	(4 marks)
	i)	suite	
	ii)	Liar	
	iii)	Quay	
	iv)	Lessen	
c)		each of the following set of words, identify the odd one out according to p he syllables highlighted. (3 marks)	ronunciation
	i)	pl <u>ea</u> sant, pr <u>ea</u> ch, pr <u>e</u> tty	•••••
	ii)	w <u>ea</u> pon, w <u>e</u> d, w <u>ee</u> d	
	iii)	br <u>ea</u> the, br <u>ea</u> th, br <u>ea</u> dth	
	d) l	Read the genre below and answer the questions that follow. (4 marks)	
	A f	lea and a fly flew up in a flue. Said the flea, "Let us fly!" Said the fly, "l	Let us flee."
	So	they flew through a flaw in the flue.	
	i)	Identify the genre above.	(1 mark)
	ii)	Identify and illustrate the dominant sound pattern in the genre above.	(2 marks)
	••		· · · · · · · · · · · · · · · · · · ·
	iii)	What would be lost if the above genre was translated into a different language?(1mark).	

	or each of the follow falling intonation. (	ing sentences, indicate v 3 marks).	whether you would say	it with a
i)	Which	school	does	Allan
	teach?			
ii)	Did	you	buy	the
	items?			
iii)	He is a good foo	otballer, isn't he?		
f) You	are working as an i	ntern at a local compan	ny attached to the Hun	nan Resources
Mana	ager's office. You re	eceive a call from some	eone who would want	to talk to the
Mana	ager. Outline three thi	ngs you would do to ensu	ure the conversation is e	effective. (3
mark	rs)			
•••••				
g) R	ead the dialogue bel	ow and answer the ques	tions that follow. (5m	arks)
Tout: Y	ou woman! Give me t	he fare.		
Passenge	r: I was the first or	ne to give you the money	please.	
Tout: D	o you think I am mad	? I know what I am talkin	ng about. Give me the n	noney.
Passenge you one h	,	embling) Excuse me, has in fact I was expecting so	•	e up? I gave
	ou woman! I will thro ll fifty shillings.	w you out of the vehicle	if you don't give me the	money. The
Passenge	r: Then I (rudel	y interrupted by the tout)		

<b>Tout:</b> Shut up. You want to teach me how to work.	
i) Identify any two instances of politeness in the dialogue above.	(2 marks)
ii) In what way above does the tout lack conversational etiquette (3marks)	
	•••••
iii)How would you say the first two statements by the tout politely?	(2marks)
	••••••
POETRY – 20 MARKS	
Read the poem below and then answer the questions that follow. (20 marks)	
A TAXI DRIVER ON DEATH BED. (By Timothy Wangusa)	
When with prophetic eye	
I peer in to the future	
I see that I shall perish upon this road	
Driving men that I do not know	
This metallic monster that I now dictate,	
This docile elaborate horse,	
That in silence seems to simmer and strain	
Shall surely revolt some tempting day.	
Thus you shall die: not that I care	
For any man's journey Nor for proprietors gain	
Not yet for the love of my own.	
Not for these do I attempt the forbidden limits.	

FOI	those deft the traffic - man and the cold cen,
Ris	king everything for the little little more.
The	ey shall say, I know, who pick up my bones
Poo	r chap, another victim to the ruthless machine"
conc	cealing my blood under the metal.
Que	estions
a)	What is the poem talking about? (2marks)
b)	What is the attitude of the persona toward his fate? (3 marks)
c)	With illustration identify the persona in the poem. (2 marks)
d)	What is the irony in the poem? (3 marks)
/	(* 111111)
e)	With illustrations identify and comment on any other two stylistic devices used in the
	poem(6 marks)
•••••	
f)	Comment on the following line.
po	or chap, another victim to the ruthless machine? (2 marks)

	• • • • • • • • • • • • • • • • • • • •		
g)	How w	ill the persona"s death come about?	(1 marks)
h)	Give th	e poem another title.	(1 mark)
GR	AMMA	R – 20 MARKS	
	a) R	Rewrite the following sentences according to	the instructions given after
	e	ach. Do not change the meaning.	(3 marks)
	(i)	If we do not keep the environment clean, the school.	health officer will close our
	Begin	n :The health officer will	
not.			
••••	(ii)	He is proud, but he must still obey the order:	
	•••••		
•••••	(iii)	"Quality products are not an act of generosit	v but your right," the supervisor
	(222)	informed the student. (Rewrite in reported s	peech)
	b) U	Jse subordinating conjunctions to join the se	ntences (3 marks)
	(i)	I have not seen Akiru. We moved from Simb	oachai.
	(ii)	Amoni ate the food. He was too hungry.	

	Omuse went home. It was raining.
c) F	ill in the blank spaces with appropriate question tags. (3 marks)
(i)	You can't be serious about going home this late
(ii)	Let us go away
(iii)	There is nothing wrong
d) C	omplete each of the following sentences using the correct one word
q	uantifier.(3 marks)
(i)	If there is any tea in that flask, I would like to have
(ii)	Since animal proteins are very expensive people eat them.
(iii)	I don't need money because I'm going to bring my lunch to
	school.
	narks)
	They took to <b>mothering</b> like a duck to water.
	They took to <b>mothering</b> like a duck to water.
(i) (ii)	They took to <b>mothering</b> like a duck to water.
(i) (ii)	They took to <b>mothering</b> like a duck to water.  The country was drained of its <b>manpower</b> and wealth by war.
(i) (ii)	They took to <b>mothering</b> like a duck to water.  The country was drained of its <b>manpower</b> and wealth by war.
(i) (ii) (iii)	They took to <b>mothering</b> like a duck to water.  The country was drained of its <b>manpower</b> and wealth by war.  The <b>air hostess</b> made sure the presidential suite was cleaned.
(i) (ii) (iii)	They took to <b>mothering</b> like a duck to water.  The country was drained of its <b>manpower</b> and wealth by war.  The <b>air hostess</b> made sure the presidential suite was cleaned.
(i) (ii) (iii) (iii) A	They took to mothering like a duck to water.  The country was drained of its manpower and wealth by war.  The air hostess made sure the presidential suite was cleaned
(i) (ii) (iii) f) A	They took to mothering like a duck to water.  The country was drained of its manpower and wealth by war.  The air hostess made sure the presidential suite was cleaned.   dd appropriate ending to the given words (5marks)
(i) (ii) (iii)	They took to mothering like a duck to water.  The country was drained of its manpower and wealth by war.  The air hostess made sure the presidential suite was cleaned.   dd appropriate ending to the given words (5marks)  Work hard to avoid(critic)

(iv)	Whatever you do, (keen) is key.
(v)	He became (fame)due to his generous work for the needy.
	THIS IS THE LAST PRINTED PAGE

# GEOGRAPHY FORM 3 HOLIDAY ASSIGNMENT BOOKLET (Volume 1)(Questions)

(1mk)

## **SECTION A**

1. a) What is geography?

b) Name 4 branches of geography.	(4mks)
2. Give <b>5</b> reasons for studying geography.	(5mks)
3. a) Define the term environment.	(2mks)

b) Name 2 types of environment. (2mks)

4. a) What is solar system. (2mks)

b) Name 5 heavenly bodies found in solar system. (5mks)

5) Outline 3 theories explaining origin of the earth. (3mks)

## **SECTION B**

6. Answer the questions below using the table drawn.

Month	Jan	Feb	March	April	May	Jun	July	Aug	Sept	Oct	Nov	Dec
Temp	24	24	24	23	23	22	22	22	23	24	24	23
Rainfall	63	87	159	211	167	88	68	93	78	78	124	97
(mm)												

a) Draw a combined line graph using the data in the table above. (10mks)

b) Describe climatic characteristic of the graph. (6mks)

c) Give 4 advantages of combined line and bar graph. (4mks)

d) Apart from combined line and bar graph give other 5 methods used to represent statistical data. (5mks)

### SECTION C

7. a) Describe dredging as a method of mining. (5mk)

b) Describe how diamond is processed in South Africa. (6mks)

	c) Explain 4 ways in w	which capital promotes development of mining.	(8mks)
	d) i. state 3 methods in	avolved in mining of soda ash.	(3mks)
ar	ii) List 3 problems s ea above.	tudents are likely to encounter if they conduct a field stud	y in the (3mks)
8.	a) Differentiate the ter	rms weather and climate.	(4mks)
	b) State 5 characterist	ics of inter-tropical convergence zone.	(5mks)
	c) With the aid of a w	ell labelled diagram describe how relief rainfall is formed	. (10mks)
	d) Outline 5 important	ce of weather forecasting.	(5mks)
9.	a) Draw a sketch map	of Kenya and on it mark the following.	
	L. Turkana	(1mk)	
	R. Athi	(1mk)	
	Mt. Kenya	(1mk)	
	Equator	(1mk)	
	b) Describe climatic c	onditions experienced in Kenya highlands.	(5mks)
cc	c) Explain 4 ways in vonditions.	which vegetation in semi-arid condition adapts to the climater	atic (8mks)
	d) Explain how ocean	ns and lakes influence climatic condition of adjacent areas	. (5mks)
1(	). a) Identify 2 agents of	of weathering.	(2mks)
	b) Explain 4 processe	es of chemical weathering.	(8mks)
	c) Differentiate mass	wasting from weathering.	(4mks)
	d) Give 3 types of slo	ow mass wasting.	(3mks)
	e) Give 4 causes of so	oil creep.	(4mks)
	f) Outline 4 importan	ce of soils to human beings.	(4mks)

## HISTORY & GOVERNMENT FORM 3 HOLIDAY ASSIGNMENT BOOKLET (Volume 1)(Questions)

## **SECTION A (25 MARKS)**

## **Answer all questions**

- 1. Identify one type of artefact that is likely to be found in an archaeological site. (1mrk)
- 2. Name one source of information on creation theory. (1 mrk)
- 3. Give two reasons that led to the success of Agriculture in Mesopotamia. (1 mrk)
- 4. State the earliest inhabitants of Western Kenya . (2 mrks)
- 5. Give the name of the council of elders among the Agikuyu. (1 mrks)
- 6. Outline the effects of Oman Rule on the people of Kenyan coast. (2 mrks)
- 7. Give circumstances under which the right of movement can be limited in Kenya.

(2mrks)

- 8. Identify the effects of conflict in the society today. (1 mrks)
- 9. Give reasons why African slaves were more preferred than other races. (2mrks)
- 10. Define Human portrage as used under Development of transport. (1 mrk)
- 11. Name the earliest metal to be used by man in its natural state. (1mrk)

- 12. State the contribution of Charles Darwin in the field of Medicine. (1 mrk)
- 13. Give two functions of Bataka among the Baganda in the 19<sup>th</sup> Century. (2mrks)
- 14. State the main constitutional change that was done in the constitution of Kenya in 2008.

(1 mrk)

- 15. Give one aspect of Democracy. (1 mrk)
- 16. Outline the methods that were used by Europeans to acquire colonies in Africa (2 mrks)
- 17. State two terms of the Anglo-German agreement of 1886. (2 mrks)

## **SECTION B (45 MARKS)**

## Answer any three questions in this section

18.

- a) Give five features of Homo Sapiens (5mrks)
- b) Discus the culture of man during the middle Paleolithic. (10 mrks)

19.

- a) State three disadvantages of open field system of farming in Britain (3 mrks)
- b) Explain the changes that occurred during Agrarian Revolution in Britain.

(12mrks)

20.

- a) Name three communities that participated in long distance trade. (3mrks)
- b) Describe the effect of long distance trade on the people of Kenya. (12 mrks)

21.

- a) Outline five causes of Maji Maji uprising (1905-1907). (5mrks)
- b) Discus the economic impact of partition of Africa. (10 mrks)

## **SECTION C (30 MARKS)**

## Answer any two questions in this section

22.

- a) Give five values of a good Citizen. (5 mrks)
- b) Discus the economic responsibilities of a Kenyan Citizen. (10 mrks)

23

- a) State five benefits that were enjoyed by Assimilated African in Senegal.(5mrks)
- b) Explain reasons why the French assimilation policy failed. (10mrks)

24.

- a) Give reasons why the Wanga collaborated with the British. (3 mrks)
- b) Explain the reasons why the Nandi resisted the British for long. (12 mrks)

## KISWAHILI FORM 3 HOLIDAY ASSIGNMENT BOOKLET (Volume 1)(Questions)

## **SEHEMU YA A – UFAHAMU (ALAMA 15)**

Soma taarifa hii kisha ujibu maswali.

Licha ya kuwa na historia ya kiasi, maisha ya binadamu ni kioja kikubwa. Hebu jiulize jinsi uhai wako wewe mwenyewe ulivyoanza sembuse unavyoweza kupumua na kuishi siku nenda siku rudi.

Dini zimefahamisha kuwa sisi binadamu tumeumbwa na Mwenyezi Muumba. Hata hivyo muumba hutumia mume na mke kutuanzishia maisha yetu humu humu duniani. Uhai wa hapa duniani huanzia katika tumbo la mwanamke muda mfupi tu baada ya mume na mke kushirikiana katika tendo la kujamiana.katika ngono hii yenye ufanisi, mbegu moja ya manii kutoka kwa mwanamume, hudunga na kujiingiza katika yai la mwanamke huku ikilirutubisha. Tangu hapo mtu huwa na mama akawa mjamzito. Hatua ya kwanza ya uhai!

Wanasayansi wametuthibitishia kuwa mbegu katika shahawa kutoka kwa mwanamume ina kromosomu ishirini na tatu (23) nalo yai la mwanamke lina idadi iyo hiyo ya kromosomu. Basi katika hatua ya kwanza ya uhai wake, binadamu ana kromosomu arubaini na sita (46).

Kromosomu hizo zote ndizo humfanya mtu kuwa mkamilifu kwa kukadiria mambo mbalimbali adhimu. Kwa mfano, kukadiria kama kiumbe kitakuwa cha kike au cha kiume, mtu mweupe au mtu mweusi, mwerevu au wa wakia chache, mwenye nywele za singa au za kipilipili, atakuwa na damu ya namna gani, michoro ya vidole vyake itakuwa vipi na hata utu wake utakuwa wa namna gani katika siku za usoni.

Elimu yote anayopata mtu kutoka kwa jamii na mazingira huweza tu kujenga juu ya yaliyokwisha kuanzilishwa na kromosomu katika yai lililorutubishwa tumboni.

Haihalisi kabisa kufikiria kwamba huwa katika hali ya ukupe. La hasha! Yeye hujitegemea kwa vyovyote na ana upekee wake. Hatangamani na mama yake. Roho yake humdunda mwenyewe na damu yake ambayo huenda ikawa tofauti kabisa na ya mama yake, humtembea na kumpiga mishipani mwake. Isitoshe, yeye si mojawapo katika viungo vya mwili wa mama yake vinavyomdhibiti katika himaya yake ndogo.

Amini usiamini, hapana binadamu hata mmoja ambaye amewahi kuwa sawa kimaumbile na mwingine na wala atakuweko. Hata watoto pacha kutoka yai moja la mama hawawi sawa, lazima watofautiane. Si nadra kusikia mtu amepata ajali akahitaji msaada wa damu, na pakakosekana kabisa mtu hata mmoja kutoka jamaa yake wa kumwauni. Basi ukistaajabu ya Musa utaona ya Firauni.

					_
M	_	_			ı:
11//1	4	•	11	12	
1 7 1	ч	J	vv	u	

1.	Ipe taarifa uliosoma anwani mwafaka.	(al. 2)
2.	Mwandishi ana maana gani anaposema 'ngono yenye ufanisi'? (al.1)	
3.	Uchunguzi wa sayansi umekita mizizi imani gani ya kidini?	(al 2)
4.	Taja majukumu yoyote matano yanayotekelezwa na kromoson (al.5)	

5.	Ka	tika makala, elimu kutoka kwa jamii na mazingira yaelekea kuwa bure ali. Kwa nini? (al.2)
6.	Ele (al	 eza maana ya maneno yafuatayo kama yalivyotumika katika makala . 3) Huwa katika hali ya ukupe
	b.	Himaya
	c.	Hatangamani na mama yake.

# **SEHEMU YA B: UFUPISHO (ALAMA 15)**

Je, unajua kuwa ukandaji wa mwili umetumika kama njia mojawapo ya matibabu toka dahari? Watu wanaofahamika kutumia ukandaji kimatibabu toka jadi ni wahindi, wachina, wagiriki, warumi na waafrika.

ukandaji unajulikana kuwa na manufaamakubwa kimatibabu. Mathalani, ukandaji hufungua vitundu vya ngozi.ufunguzi huu huondoa sumu mwilini kupitia kwa utoaji jasho. Pili, ukandaji hupunguza mkazo wa misuli. Misuli ikiwa na mkazo zaidi kwa muda mrefu huleta urundikaji wa asidi. Ukandaji huondoa asidi hii, huufanya mwili kuwa mlegevu, humletea mtu uchangamfu na kuondoa uchovu.

Hali kadhalika ukandaji huimarisha mzunguko wa damu mwilini kwa wepesi. Hali hii huhakikisha kuwa virutubishi vya mwili huweza kufikia viungo vya mwili. Hili nalo huchangia kuzidisha uwezo wa mwili kujikinga na maradhi. Hewa safi ya oksijeni huweza pia kusambaa kote mwilini. Kupitia kwa uimarishaji wa mzunguko wa damu. Aidha, ukandaji wa taratibu na polepole hupunguza mkazo wa nera na kuziliwaza ukandaji wa kasi huchangamsha nera na kuimarisha utendaji kazi wake.

Ukandaji unaweza kufanyiwa kiungo chochote mwilini. Ukandaji huu huweza kuwa na matokeo mbalimbali mwilini.

Mathalan, ukandaji wa njia ya chakula mwilini, hasa tumbo na utumbo, huimarisha usagaji wa chakula na kuchangia uondaji wa uchafu wa sumu mwilini.

Kwa kawaida viganja vya mikono hutumika katika ukandaji. Viungo hivi vinapaswa kuwa na wororo. Wororo huu hupatikana kwa kutumia mafuta. Mafuta ambayo nibora zaidi kwa shughuli za ukandaji ni ya ufuta au simsim. Matumizi ya kitu chochote kama ungaunga kinachoweza kuziba vitundu vya ngozi hayapendekezwi.

Ukandaji wapaswa kutekelezwa kwa njia ifuatayo. Mtu aanzie mikono na miguu. Kisha aingie kukanda kifua, tumbo mgongo na makalio. Hatimaye, akande uso na kumaliza na kichwa. Mtu anaweza kutumia viganja vya mikono kukandia.Kwa njia hii, manufaa huwa marudufu. Kwanza, tunanufaika na ukandaji na wakati huo huo tutakuwa tukifanya mazoezi ya viungo. Wasioweza kujikanda wanaweza kuomba msaada. Ni muhimu ukandaji ufuatiwe na kuoga kwa maji vuguvugu.

Kwa walio na tatizo la shinikizo au mpumko wa damu wanaweza kubadilisha utaratibu wa ukandaji. Waanzie kichwani, kisha waelekee usoni, kifuani, tumboni, mgongoni, makalioni, miguuni na kuhitimisha mikononi.

Hata hivyo; ukandaji haupaswi kufanywa wakati mtu anaugua maradhi yoyote. Wanawake wajawazito nao wanatakiwa kuepuka ukandaji wa tumbo. Hali kadhalika, ukandaji wa tumbo hauruhusiwi wakati mtu anaendesha, ana vidonda vya tumbo au uvimbe tumboni. Hatimaye, ukandaji haupendekezwi iwapo ana maradhi ya ngozi.

a. ukandaji una manufaa gani ukirejelea aya tatu za kwanza. (maneno 65-

### **MASWALI**

70	) (alama 7 mtiririko 2)
Matayar	isho

Jibu
b. Eleza utaratibu wa ukandaji. (maneno 55-60) (alama 5 mtiririko 1) Matayarisho
Matayarisho
Matayarisho 
Matayarisho

Jibu.		
	SEHEMU YA C. SARUFI (ALAMA 40)	
1.	Bainisha sifa inayotofautisha sauti / e / na / i /	(al. 2)
	, , , , , , ,	
_		
2.	a. Eleza maana ya kiambishi.	
	(al. 1)	

	b. Onyesha majukumu ya viambishi katika neno walifika.	(al. 2
3.	a. Kirai ni nini?	(al. 1)
	b. Andika kwa wastani .	(al.1)
	Magoma haya yatachezwa wanjani	
4.	i) Eleza maana ya kiimbo.	(al. 1)
	· · · · · · · · · · · · · · · · · · ·	
	ii) Bainisha matumizi yafuatayo ya kiimbo.	(al. 2)
a)	Kumbe! Wewe ni mwizi!	
b)	Ondoka hapa!	
5	Eleza maana mbili zinazojitokeza katika sentensi hii	
٥.	Tuliitwa na mwalimu	(al.2)

6.	Tofautisha matumizi ya 'vizuri' katika sentensi hii.	
	Mwalimu alivaa vizuri alivyofunga vizuri	(al. 2)
7	i. Andika kinyume cha sentensi ifuatayo	(al. 2)
/.	i. Andra kinydine cha sentensi ndatayo	(ai. 2)
	Wavulana watatu wanaingia darasani kwa haraka	
	ii.Kwa kutoa mifano onyesha matumizi mawili ya kistari kifupi	(al. 2)
	, , , , , , , , , , , , , , , , , , , ,	(- /
8	Andika ngeli za nomino zifuatazo	
0.	(al. 2)	
	(6.1. 2)	
	i. Bawabu	
	ii. Nyasi	
0	Tunga contonsi yanya muunda jufuataa	(al. 2)
9.	Tunga sentensi yenye muundo ufuatao	(al. 2)
	N + V + V + T	

10	. a. Tunda halitaoshwa vyema. Tunda halitalika.(unganisha ku moja kwa kutumia 'po' ) 	(al. 2)
	b. Kengewa alitoa ahadi. Wengi waliiamini ahadi hiyo (ungan sentensi moja inayoanza kwa: ahadi).	isha kuwa (al. 2)
11 i.	.Tambua aina ya vitenzi katika sentensi zifuatazo Mjomba alikuwa uwanjani	(al. 3)
ii.	Mjukuu wake ataweza kulima	
12	Kanusha sentensi ifuatayo katika wingi.  Ningalikuwa na pesa ningalinunua gari	(al. 2)
13	.Andika sentensi ifuatayo katika wakati ujao hali timilifu. Mbunge alitawazwa kabla ya mpinzani wake kufika 	(al. 2)

14.Andika katika wingi karibu  Mtu yuyo huyo aliubeba mzigo uo huo licha ya ku	(al. 2) kanywa. 
15.Andika kwa usemi wa taarifa.  " Mama, utaniletea zawadi kesho?" Kadogo aliuliz	(al. 3) za
	(al. 2 )
	(al. 2)
b. Fafanua kaida nne za lugha.	(al. 8)

# MATHEMATICS FORM 3 HOLIDAY ASSIGNMENT BOOKLET (Volume 1)(Questions)

### SECTION 1 (50MKS)

Answer all the questions in the section in the provided

Express as a fraction in its simplified form
 45°2°
 (3mks)

2. Evaluate using tables of squares, square roots and reciprocals  $\frac{1}{\sqrt{0.3278}} + 56.3^2 \text{ correct of 4 s.f}$ 

3. A straight line L1 passing through T (-2,1) is perpendicular to another line L2 whose equation is 2x - 3y + 4 = 0Find the equation of L1 in the form y = mx + c (3mks)

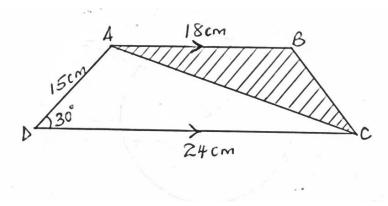
4. Solve for x  $27^{\frac{1}{3}x+1} \times \frac{1}{3} = 243^{x}$ (3mks)

5. The interior angles of an irregular polygon are 120°, 140°, 136° and the rest are 108° each. Determine the sides of the polygon (3mks)

6. Simplify 
$$\frac{2x^2 - 2}{3x^2 - x - 2}$$
 (3mks)

7. In the figure ABCD, side AB is parallel to side DC Angle ADC =  $30^{\circ}$ , AB = 18 cm, AD = 15 cm and DC = 24 cm

18cm



Find the area of the shaded region

(4mks)

8. Given that x is an a cute angle solve for x  $Sin (3x +10^{\circ}) = Cos 2x$ Hence find  $tan \frac{1}{2}x$  correct to 3 d.p

(3mks)

9. A hemispherical solid has a surface area of  $441 \text{cm}^2$  (use  $\pi = \frac{22}{7}$ ). Calculate its volume correct to 2d.p (4mks)

10. Solve for x and y

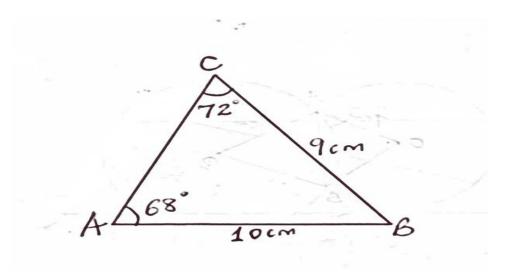
$$X + y = 4$$

$$Xy = 3$$

(4mks)

(4mks)

11. In the figure AB = 10 cm, BC = 9 cm  $< ACB = 72^{\circ}$  and  $< BAC = 68^{\circ}$ 



Find the area correct to 1 d.p

(2mks)

12. Two years to come a mother will be three times as old as her daughter. Four years ago the mother was 28 years older than the daughter. Determine the present age of the daughter (3mks)

13. Solve for  $x + 6 \angle 3x + 8 \le 2x + 12$ . Hence represent your solution on a number line (3mks) 14. Given that x:y = 3: 2, y: z = 4:1 find the ratio y: z: x in its simplified form (2mks)

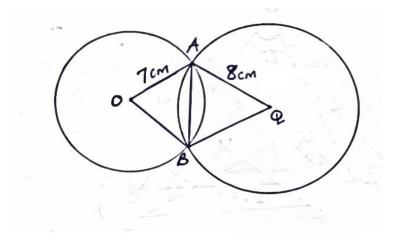
15. A cylindrical metal bar 12cm long has a volume of 27 cm<sup>3</sup>. Find the length of a similar metal bar whose volume is 64cm<sup>3</sup>. (3mks)

16. Given that 
$$\underline{t} = \begin{pmatrix} 2 \\ -4 \end{pmatrix}$$
  $\underline{h} = \begin{pmatrix} -1 \\ 2 \end{pmatrix}$  and  $\underline{k} = \begin{pmatrix} 2 \\ 4 \end{pmatrix}$  Find  $\begin{vmatrix} 1/2 & t \\ 2 \end{vmatrix} = \begin{pmatrix} 3h + k \\ 4 \end{vmatrix}$  (3mks)

## SECTION B (50mks)

## Answer any five questions in this section in the space provided

17. The figure shows two circles intersecting at points A and B where O and Q are centres. AO = 7cm, BQ = 8cm and AB = 9cm.



a) Determine the size of

$$i) \angle AOB$$
 (2mks)

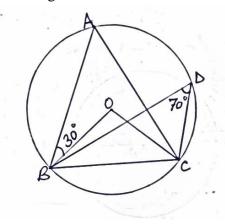
ii) 
$$\angle BQB$$
 (2mks)

b) Calculate the area of the shaded region (6mks)

- 18. A lorry left Kisumu at 7.30am for Nairobi travelling at an average speed of 80km/h. At 8.15am Matatu left Kisumu following the same route towards Nairobi travelling at average speed of 100km/h. Given that the distance from Kisumu to Nairobi is 480km, determine
  - i. The distance covered by the lorry before the Matatu left Kisumu (2mks)

ii.	The relative speed, hence the time taken by the Matatu to catch up with the lorry (4mks)
iii.	The time of the day the Matatu caught up with the lorry (2mks)
iv.	The distance from Kisumu to the point where they caught up with each other (2mks)

In the figure ABC and D are point on the circumference of the circle. Whose centre is O. Angle BDC =  $70^{\circ}$  and angle ABO =  $30^{\circ}$ 



Giving reasons, find the size of each angle below

a) ∠BOC

(2mks)

b) ∠BAD

(2mks)

c) ∠ACO

(2mks)

d) ∠OBC

(2mks)

e) ∠ADC

(2mks)

20. A group of members decided to raise sh. 80,000 toward a poultry project, by contributing equally. Fifteen more members joined the group before the contribution were made. Each member therefore ended up contributing sh. 1200 less				
		2mks)		
ł	Hence find the original number of members in the group  (6)	ómks)		
C	Find the ratio of final contribution to the original (planned) contribution	(2mks)		
	Using a ruler and a pair of compasses only construct ABC such that $AB = 8$ =cm and $BAC = 45^{\circ}$ . Measure AC (4)	4cm BC 4mks)		

b)	Drop a perpendicular from C	C to meet AB proceeded at X.	Measure CX and BX
	(3mks)		

c) Draw a parallelogram BCYX, hence measure angle BXY. (3mks)

22. The table below shows the marks scored by 32 students in an exam

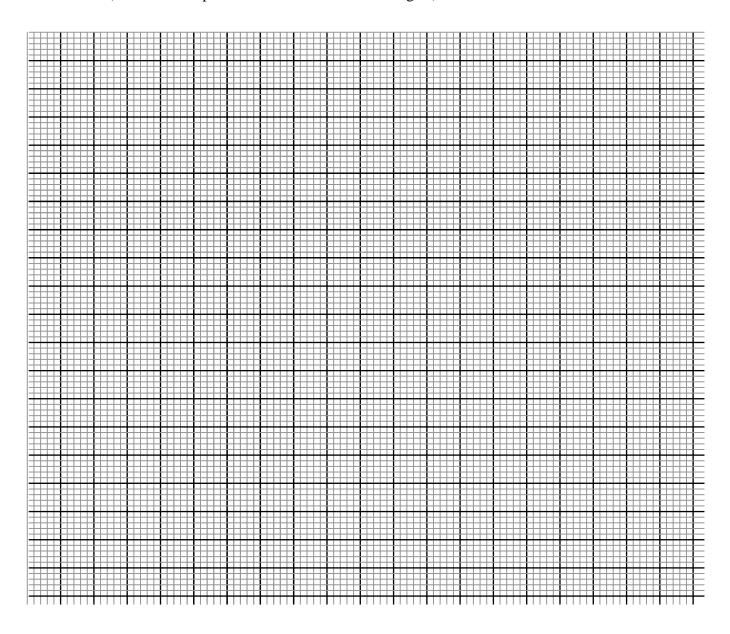
Marks %	20-30	30-40	40-50	50-60	60-70	70-80
Students	2	6	5	9	4	6

a) State (i) The modal class

(1mk)

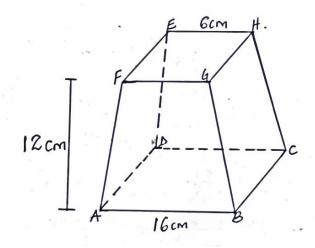
	(ii)	The modal frequency	(1mk)
	b)	Determine correct to 4s.f	
	i)	The Mean mark	(4mks)
	ii)	Median mark	(4mks)
23.	A (	-3.2), B (-1,3) and C (-1,1) are vertices of triangle ABC. Γ	Draw $\triangle ABC$
		Triangle A <sup>1</sup> B <sup>1</sup> C <sup>1</sup> is reflected in the line y=x obtain triangle	
	b)	w $\Delta$ A <sup>1</sup> B <sup>1</sup> C <sup>1</sup> Triangle A <sup>1</sup> B <sup>1</sup> C <sup>1</sup> undergoes a rotation of-90° about the or A <sup>11</sup> B <sup>11</sup> C <sup>11</sup> Draw $\Delta$ A <sup>11</sup> B <sup>11</sup> C <sup>11</sup>	igin obtain triangle (3mks)
	c)	Triangle $A^{11}B^{11}C^{11}$ is finally enlarged using a scale factor $(0, 0)$ to obtain $A^{111}B^{111}C^{111}$ .	of -2 with the centre at
		Draw triangle $A^{111}B^{111}C^{111}$ . (3	Bmks)

(Use the same pair of axes to draw all the triangles)



24. The figure below shows a model of a solid in the shape of a frustum of a square based pyramid.

The height of the solid is 12cm with the top and bottom measurements of 6cm and 16cm respectively



Determine correct to the nearest whole number

i) The height of the original solid

(2mks)

ii) The volume of the solid

(4mks)

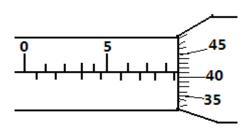
iii) The surface area

(4mks)

# PHYSICS FORM 3 HOLIDAY ASSIGNMENT BOOKLET (Volume 1)(Questions)

### SECTION A (25 MARKS) (Answer ALL the questions in the spaces provided)

What is the reading on the micrometer screw gauge shown below with an error of +0.5mm?
 (1mk)

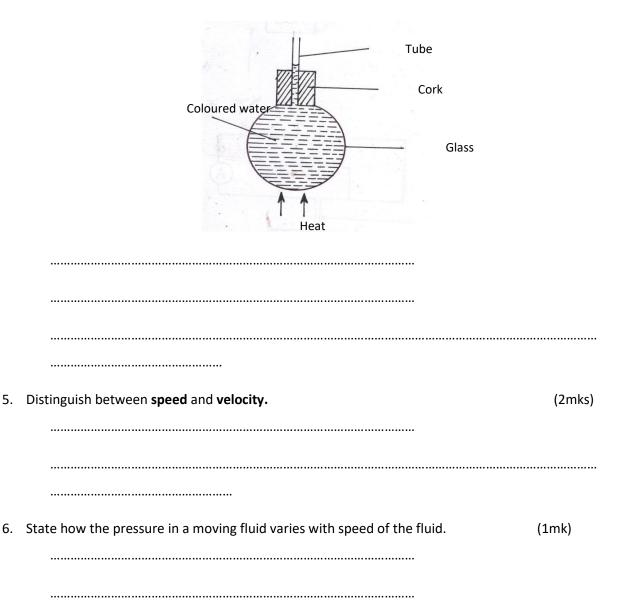


In a ball and ring experiment, the ball goes through the rings at room temperature. When it is heated it does not go through the ring, but when left on the ring for some time, it goes through. Explain this observation (2mks)
 In the study of free fall, it is assumed that the force F acting on a given body of mass, m, is gravitational, given by F = ma. State two other forces that act on the same body

4. In the set up shown below, it is observed that the level of the water initially drops before

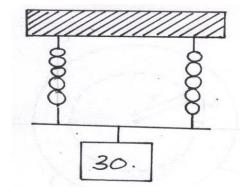
(2mks)

starting to rise. Explain this observation



7. A piece of metal weighs 3N in air and 2N when totally immersed in water. Calculate the volume of the metal (3mks)

8.	Explain how a person is able to drink a soda using a drinking straw.	(2mks)
9.	Give a reason why air is not commonly used as the fluid in a hydraulic lift.	(1mk)
10.	State <b>one</b> assumption made when estimating the size of an oil molecule in the	oil drop
10.	experiment.	on arop
	(1mk)	
	()	
11.	The figure below shows a swinging pendulum.  A  B  C	
	State the energy conservation taking place as the pendulum moves from A	to B and B to C
	(2mks)	
12.	The identical springs of spring constant 3N/cm are used to support a load of 30	N as shown.



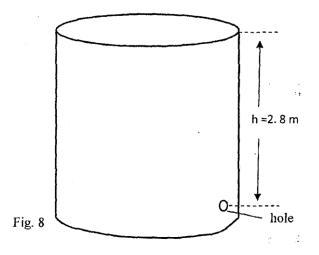
	Determine the extension on each spring	(3mks)
13. In a	vacuum flask, the walls enclosing the vacuum are silvered on the inside	. State the reason
for t	this.	(1mk)
14. Stat	e the features that govern the strength of a spiral spring of a given mate	rial.
		(2mks)
15. Sket	tch velocity-time graph of a body moving down a viscous fluid.	(1mk)

## **SECTION B (55 MARKS)**

# (Answer ALL the questions in the spaces provided)

16.	(a) State the principle of conservation of linear momentum.	(1mk)
	(b) Calculate the recoil velocity of a gun of mass 0.4kg which fires at a velocity of 400ms <sup>-1</sup>	a bullet of mass 0.0045kg (3mks)
	(i) State <b>two</b> factors which affect frictional force of a body	(2mks)
(ii	) Suggest <b>three</b> ways in which friction can be minimized	(3mks)
(ii	i) State <b>three</b> advantages of friction	(3mks)

a) Fig. 8 shows a cylindrical can filled with a liquid of density 0.8 gcm<sup>-3</sup>. A hole of diameter 2.0 cm is drilled at a depth of 2.8 m from the top of the can.

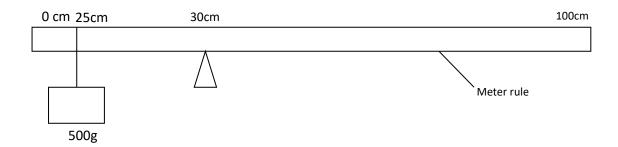


Determine:

- i. The cross-sectional area of the hole. (2mks)
- ii. The maximum pressure exerted by the liquid at the hole. (2mks)
- iii. The maximum force exerted on a jet of liquid through the hole. (2mks)
- b) State the principle of moments

(1mk)

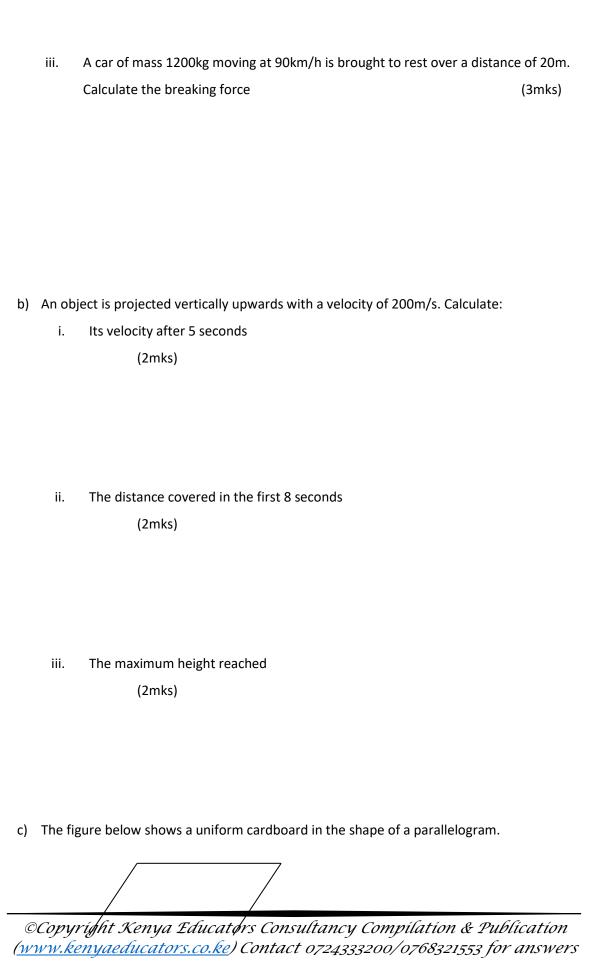
c) A metre rule whose centre of gravity is at the 50cm mark balances at the 35cm mark when a mass of 500g is placed at the 25cm mark as shown in the figure 8 below



i. Determine the mass of the meter rule

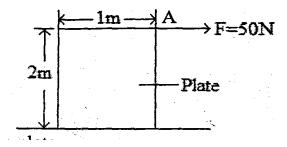
(3 mks)

ii.	With the metre rule remaining on the knife-edge at the 30 cm mark, a mass of 125g is					
	suspe	suspended from the 70 cm mark. The mass of 500g is moved until the rule is balanced.				
	Deter	mine the new position of the 500g mass		(3 mks)		
18.						
a)	For a body moving with a constant acceleration, a , show that:					
	i.	V = u + at where v and u are the final and		hile t is the		
		time taken	(2mks)			
	ii.	$S = ut + \frac{1}{2}at^2$ where S is the distance cover	ered	(2mks)		



Locate the centre of gravity of the cardboard. (1mk)

- d) Two samples of bromine vapour are allowed to diffuse separately under different
  conditions, one in a vacuum and the other in air. State with reasons the conditions in which
  bromine diffuse slower. (2mks)
- 19.
   a) State **two** factors affecting stability of body
   (2mks)
  - b) The figure below shows a metal plate 2 m long, 1M wide and negligible thickness. A horizontal force of 50 N applied at point 'A' Just makes the plate tilt.

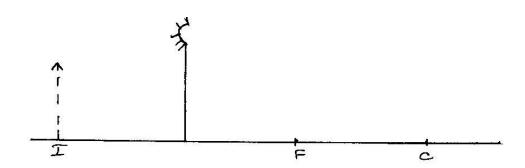


Calculate the weight of the plate.

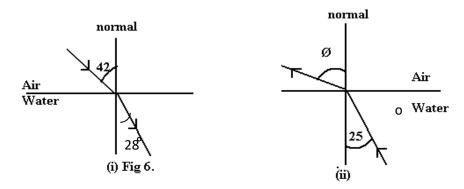
(3mks)

c) Fig 4 shows an image I formed by an object placed in front of a convex mirror. C is the centre of curvature of the mirror. Using ray diagram, <u>locate</u> the object position.

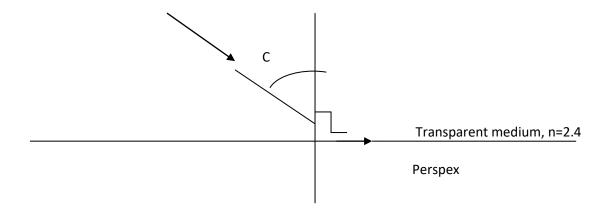
(3mks)



d) Fig 6 (i) and (ii) show refraction of light at air-water interface. <u>Determine</u> angle Ø in figure 6(ii) (3mks)



e) A ray of light now travels through a transparent medium into the Perspex as shown in the figure below:



Calculate the critical angle

(3mks)