TOPMARK 2022 PREDICTION



KCSE ALL SUBJECTS



SERIES 1

SUBJECTS PREDICTED;

Mathematics, English, Kiswahili, Biology, Chemistry, Physics, CRE, History, Geography, Business Studies, Agriculture, French, IRE, Homescience & Computer Studies.

1st Series of KCSE 2022 Probable Prospective Questions anticipated to be examined in the Forthcoming Final Exams come November 2022.

CONFIDENTIAL!

For Marking Schemes

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SUCCESS TO ALL CANDIDATES

TOPMARK 2022 PREDICTION

KCSE SERIES 1

NAME	INDEX NO
SCHOOL	SIGN
DATE	

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

3101,0C

(THEORY)

PAPER 1

TIME: 2 HOURS

<u>Instructions to candidates</u>

- 1. Write your name, index number and the name of your school in the spaces provided above.
- 2. Sign and write the date of examination in the spaces provided above.
- 3. Answer all questions in this question paper.

For Examiner's Use Only

QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
1-33	80	
1-33	80	





Answer all questions in this question paper.

1.	a) Name the antigen	s that determines human blood groups.	(2mks)
••••	b) State the adaptation of	the red blood cells that make them move in blo	ood capillaries. (1mk)
2.	The figure below is a diag	gram of a cell as seen under the light microscop	pe (3mks)
S	State three structures that sho	ow that these is a plant cell.	(3mks)
••••			••••••••••••
3.	Why is it more advantage	eous to breath through the nose than through the	e mouth. (3mks)
SCOTTA D			





4.	State three characteristics of members of Bryophyta.	(3mks)
••••	•••••••••••••••••••••••••••••••••••••••	•••••
••••	•••••••••••••••••••••••••••••••••••••••	••••••
••••	•••••••••••••••••••••••••••••••••••••••	•••••
5.	State three characteristics of a population	(3mks)
••••	•••••••••••••••••••••••••••••••••••••••	••••••
••••		••••••
6.	The diagram below represents a simple respiratory pathway in cells	(2mks)
	Glucose Process X Ethanol + CO ₂ + 21	0kJ
	Substance A	
	Oxygen present Process X	
	Substance B + 150l	кJ
	a) Name the process marked X and Y	(2mks)
••••		
••••	b) Name substances represented by K .	(1mk)
•••	c) State the name of substance B .	(1mk)





7.	The	diagram below shows two organisms of the same species	(2mks)
		Gynecophor canal	ric
	a)	State the sex of organism A and B .	(2mks
••••	•••••		i
	b)	Name the disease caused by the above organism.	(1mk)
8.	Ident a)	tify the physiolocal process involved in the following Feeding in venus fly trap(insectivorous plant)	(1mk)
•••••	b)	Absorption of mineral salts by plant roots.	(1mk)
•••••	••••••		•••••





9.	An experiment on photosynthesis was set up as shown below	(4mks)
	gas collected Bubbles of gas Water with sodium hydrogen carbonate dissolved	
	a) What was the aim of this experiment?	(1mk)
• • • • •		• • • • • • • • • • • •
••••	b) What gas is produced during this experiment.	(1mk)
• • • • •		• • • • • • • • • • • •
••••	c) Why was sodium hydrogen carbonate added to water during this experimen	
10.	Distinguish between the following	
	a) Habitat and ecological niche.	(2mks)
••••		••••••
•••••		



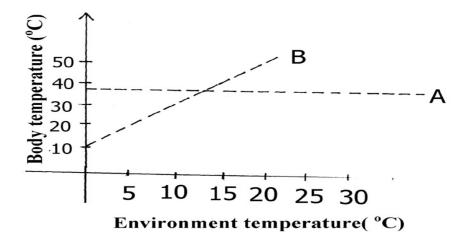


b) Intraspecific and interspecific competition.	(2mks)
	•••••
	•••••
•••••••••••••••••••••••••••••••••••••••	••••••
11. The diagram below represents a mammalian bone.	(1mk)
X-STATE OF THE STATE OF THE STA	
i) Name the bone	(1mk)
ii) Identify the part labelled X	(1mk)
iii) Name the bone that articulates with the part labelled Y	(1mk)
•••••••••••••••••••••••••••••••••••••••	••••••





12. Body temperature of two animals A and B were taken over the increase in environmental temperature. The results are shown in the diagram below.



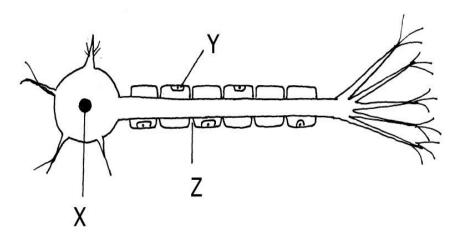
		and the same of th	79 ₆₆	and the same of th	The state of the s
a)	What name is used	to describe	group of	animale	represented by
a	What hame is used	to acscribe	group or	ammais	represented by

b)	A	(1mk) (1mk) (2mks)
•••••		••••••
13. i)	Briefly explain how the following affect the rate of transpiration Sunken stomata	(2mks) (2mks)
••••		••••••
ii) 	Hairy leaves	(2mks)
••••		••••••





14. The diagram below shows the structure of a neurone



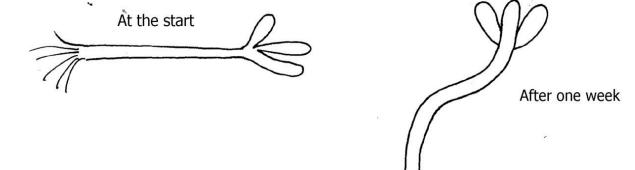
i) a) Identify the type of neurone drawn above



b) Name the parts labelled **X** and **Y**

X	\\	 •	The Road of the Lot of	The state of the s
	· \	• • • • • • • • • • • • • • • • • • • •		
	Total Control			No. 1

15. A form four girl uprooted a young plant and laid it horizontally on the ground. After one week it was observed that the shoot of the same plant had bend upwards while theroot downwards as shown below.







(1mk)

Acco	ount for the observations made.	(3mks)
••••		••••••
16.	The diagram below shows on apparatus used in collection of specimen	•••••••••••
	Tube for suction Tube for collecting ins	ects
i)	Identify the apparatus	(1mk)
ii)	State its use	(1mk)
••••		•••••••••••••••••••••••••••••••••••••••
17.	Give a reason why staining is necessary when preparing specimen for observat microscope.	ion under a (1mk)
•••••		





18.	The scientific name for a domestic cat is <i>felis catus</i> . Outline the rules that were no	ever
	followed in writing the name	(3mks)
•••••	••••••••••••••••••••••••••••••••	•••••
••••	•••••••••••••••••••••••••••••••••••••••	•
••••	•••••••••••••••••••••••••••••••••••••••	•••••
••••		• • • • • • • • • • • • • • • • • • • •
19.	An organelle magnified 6000 times by an electrons microscope, measured 3mm i	n diameter.
Calc	culate its real diameter in micro metres. Show your working	(2mks)
•••••		•••••
•••••		•••••
••••) • • • • • • • • • • • • • • • • • • •
20.	What happens when a young herbaceous plant is well watered with strong salt sol	ution.
	(2mks)	
••••		• • • • • • • • • • • • • • • • • • • •
•••••		•••••
A 4 3 7		
21 N	ame the cell organelles that would be found in abundance in	
	a) Skeletal muscus	(1mk)
		•••••
	b) Palisade cells	(1mk)





22.	State	one role of the following elements in the human body.	(1mk)
	a)	Iron	(1mk)
••••	b)	Chlorine	(1mk)
23.	a)	What is mean by the term assimilation.	(1mk)
••••	• • • • • • •		• • • • • • • • • • • • • • • • • • • •
	b) Sta	ate two ways in which end products of lipids digestion are assimilated.	(2mks)
•••••	••••••	(V < (O D D) / (O)	• • • • • • • • • • • • • • • • • • • •
24.		me + substrate enzyme + products from the above equation name two propermes exhibited in the equation.	rties of (2mks)
•••••	•••••		••••••
•••••	•••••		•••••
25.	Study	y the diagram below and answer the questions that follow Starch grain	(2mks)
		A	
		Fat lipid droplet	





	What	t process takes places in A and B.	(2mks)
•••••			•••••••••
26.	The d	diagram below represents a section of the dicot root apex.	(2mks)
		D C B	
•••••	a)	State the role of the part marked A	(1mk)
•••••	•••••	•••••••••••••••••••••••••••••••••••••••	••••••
••••	b)	State three characteristics of the cells found in region B.	(3mks)





•••••••••••••••••••••••••••••••••••••••	•••••
•••••••••••••••••••••••••••••••••••••••	••••••
•••••••••••••••••••••••••••••••••••••••	••••••
Give <u>two</u> adaptations of spiracles to their functions.	(2mks)
	•••••
••••••	•••••
Differentiate between lactic acid fermentation and alcoholic fermentation.	(2mks)
	••••••
	• • • • • • • • • • • • •
	•••••
State two importance of the placenta during pregnancy	
State <u>one</u> function of water in a germinating seed.	(1mk)
•	Differentiate between lactic acid fermentation and alcoholic fermentation. State two importance of the placenta during pregnancy State one function of water in a germinating seed.





31.	Explain the following terms	
	a) Test cross	(1mk)
•••••		
••••	b) Phenotype	(1mk)
••••	••••••	••••••
32. chi	Haemophilia is a sex – linked disorder caused by a recessive gene located on the X nosome. Give the genotype of a make haemophiliac individual.	- (1mk)
•••••		••••••
33.	Distinguish between divergent and convergent evolution.	(2mks)
••••		•••••
•••••		•••••

This is the last page.





TOPMARK 2022 PREDICTION

KCSE SERIES 1

NAME	INDEX NO
SCHOOL	SIGN
DATE	

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

231/2

BIOLOGY

PAPER 2

Time: 2 Hours

INSTRUCTIONS TO CANDIDATES

- a) This Paper consists 2 sections A and B.
- b) Answer all questions in section A in the spaces provided
- c) In section B, answer questions 6 (compulsory) and either questions 7 or 8 in the spaces after questions 8..

FOR EXAMINERS USE ONLY

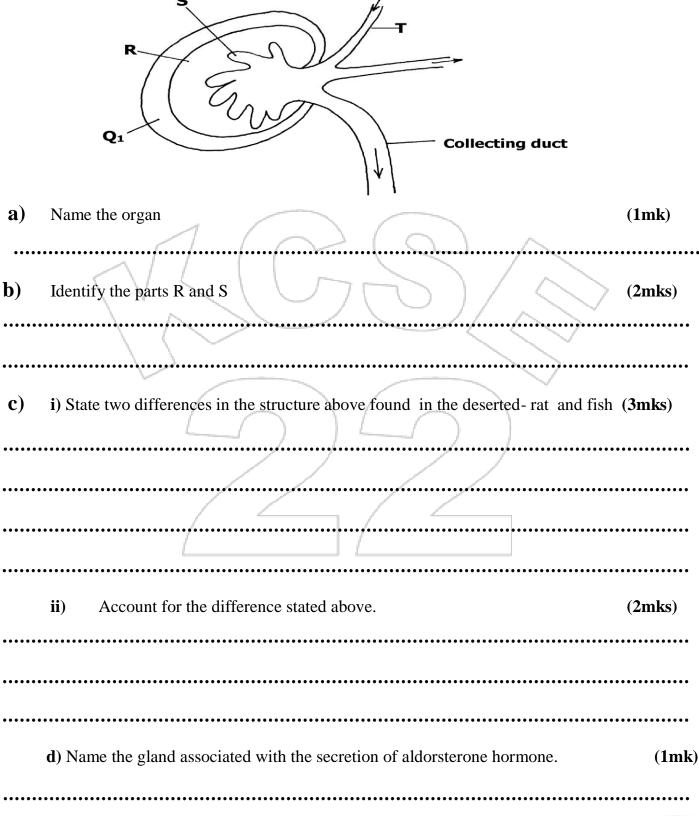
SECTION	QUESTIONS	MAXIMUM SCORE	CANDIDATES SCORE
	1	8	
	2	8	
	3	8	
${f A}$	4	8	
	5	8	
	6	20	
	7	20	
В	8	20	
	TOTAL SCORE	80	





SECTION A 40 MARKS

1. The diagram below is a longitudinal section of an organ in mammals







	2.	a) What is the economic importance of anaerobic respiration in industry.	(3mks)
• • • • • •	•••••		•••••
• • • • • •	•••••	•••••••••••••••••••••••••••••••••••••••	•••••
• • • • • •	b) Exp	plain what happens in the two phases of aerobic respiration.	(5mks)
• • • • • •	•••••		•••••
•••••	•••••	7 (2) (2)	•••••
• • • • • • •	•••••		••••••
• • • • • •	3.	The diagram below shows three different types of neurons along a reflex arc.	•••••
	/	1 2 3	
		a) Identify the Neuron labeled 1,2 and 3. (3	mks)
•••••	•••••		•••••
• • • • • • •	•••••		•••••



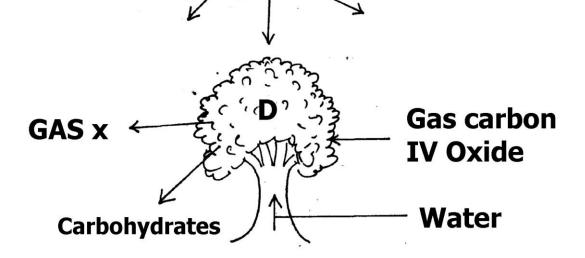


b)	Using arrows show the direction of impulse transmission on the diagram.	(1mk)
c)	Name the part where the cell body of neurons 1 and 2 are located.	(2mks)
d)	Describe the transmission of impulses across the part labeled T.	
••••••		•••••••
4.	In an experiment, a variety of garden peas have a smooth seed coat was cross	ssed with :
var Th	iety with a wrinkled seed coat. All the seeds obtained in the F_1 , had a smooth se F_1 generation was selfed. The total number of F_2 generation was 7324.	ed coat
a) Us	ing appropriate letter symbols in a punnet square, work out the genotypes of the n.	(4mks)
b) Fr	om the information above, work out the following for the F ₂ generation (i) Genotypic ratio	(2mks)
••••••		••••••





	(ii)	Phenotypic ratio		(1mk)
••••••	•••••			
	(iii)	Wrinkled number		(1mk)
5.	The diagran	below illustrate the first stag	ge in the energy flow in the ecosy	rstem
		←(SUN)-	→ `	



a) Identify (i) organelles responsible for activity in D.

	in D	(1mk)
	Gas X	(1mk)





b)	Suggest the roles played by each of the following in the process illustrated above.	
	(i) Light energy	(1mk)
•••••		• • • • • • • • • • • • • • • • • • • •
	(ii) Water	(1mk)
••••		
	iii) Carbon (II) oxide	(1mk)
•••••		• • • • • • • • • •
•••••	c) Give three ways in which the carbohydrates produced in the organelle utilized in the plants.	es at D is
•••••		• • • • • • • • • •
•••••		
•••••		• • • • • • • • •
••••••		••••••





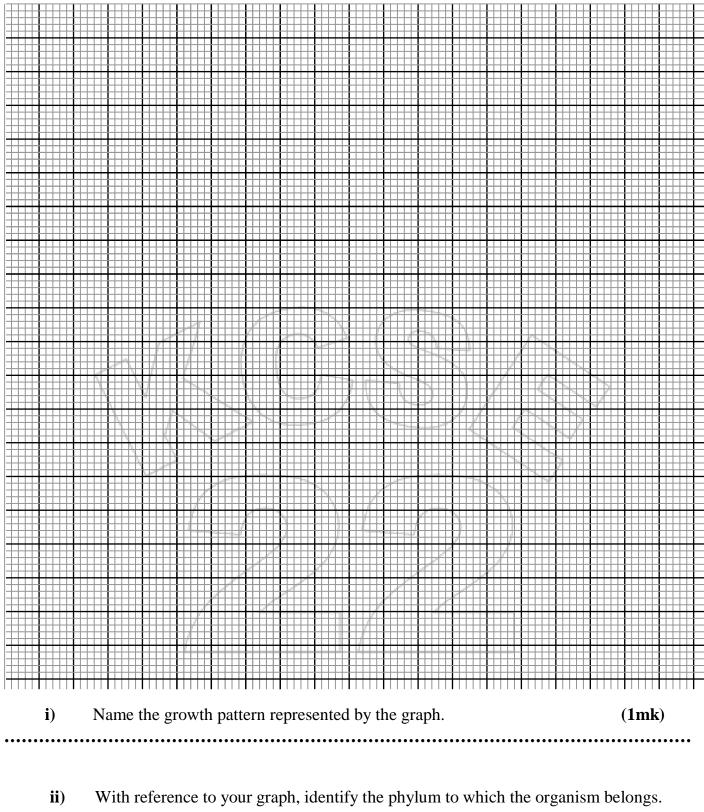
SECTION B: 40 MARKS

- **6.** The following data are results from an observation and measurement of daily growth in an organism over a period of 24 days of its development
 - a) Using a suitable scale draw graphs of width of head and length of femur against time on the same axis. (8mks)

DAY	WIDTH OF HEAD	LENGHT
	Mm	Femur (mm)
1	3.0	7.0
2	3.5	7.5
3	4.0	8.0
4	4.0	8.0
5	4.0	(8:0)
6	4.0	9.2
7	4.0	10,5
8	4.0	12.0
9	4.7	12.0
10	5.0	12.0
11	5.0	12.0
12	5.0	12.0
13	5.0	12.0
14	5.0	12.0
15	5.0	13.3
16	5.0	14.8
17	5.7	16.4
18	6.4	18.0
19	7.0	18.0
20	7.6	18.0
21	7.6	18.0
22	7.6	18.0
23	7.6	18.0
24.	7.6	18.0







ii) With reference to your graph, identify the phylum to which the organism belongs.
 Give reasons for your answer. (2mks)





	••••••
b) Account for the length of hind femur between(i) day 3 and day 7	(2mks)
	••••••
(ii) day 7 and day 10	(2mks)
7/12/02/2	• • • • • • • • • • • • • • • • • • • •
	•••••
c) State two hormones involved in the growth pattern represented by the graphs .	(2mks)
	•••••
d) State two advantages of metamorphosis in organisms.	(2mks)
	• • • • • • • • • • • • • • • • • • • •
	•••••
7. Explain how the various activities of man have caused air pollution.	(20mks)
8. a) What are enzymes?	(2mks)
b) State the properties of enzymes	(6mks)
c) Discuss the factors that affect the rate of enzyme – catalysed reactions	(12mks)









TOPMARK 2022 PREDICTION

KCSE SERIES 1

SCHOOL	SIGN
~	

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

BIOLOGY PRACTICAL CONFIDENTIAL INSTRUCTIONS TO SCHOOLS

The information contained in this **KCSE Biology Prediction paper** is to enable the head of the school and the teacher in charge of Biology to make adequate preparations for the **231/3 Biology** Practical examination.

No one else should have access to this information either directly or indirectly.

REQUIREMENTS

Each KCSE candidate will require;

Confidential

- a) Hibiscus flower (labelled P)
- **b)** Maize seedling(germinated for 8-10 days) (labelled Q)
- c) Benedict's solution
- **d)** Iodine solution
- e) Two tes tubes
- **f**) Test tube holder
- **g**) Labels
- **h**) Means of heating
- i) Scalpels
- **j**) Hand lens
- **k)** Distilled water
- l) Mortar and pestle





TOPMARK 2022 PREDICTION

KCSE SERIES 1

NAME	INDEX NO
SCHOOL	SIGN
DATE	

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

BIOLOGY

Paper 3 (Practical) 1 ³/₄ Hours

- Write your name, Index Number, class in the spaces provided above
- Write the date of examination in the space provided above
- Answer ALL the questions

FOR EXAMINER'S USE ONLY

QUESTION	SCORE	CANDIDATES SCORE
1	12	
2	15	
3	13	
TOTAL	40	





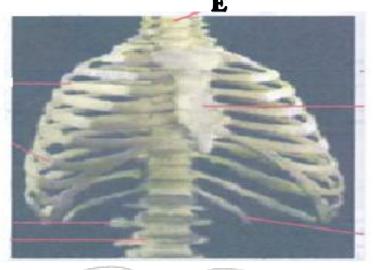
1. a)You are provided with specimen labelled Q. Remove the endosperm and crush using a motor and pestle. Add distilled water and obtain a solution. Decant the mixture to obtain solution Q1. Using the reagents provided, test the food present in solution Q1. (8marks)

Food	Procedure	Observation	Conclusion
	10		
b) Account for you	ar observation in (a) abo	ove	(3mark
•••••••••••	•••••••	ed in the specimen above	•••••••••••••••••••••••••••••••••••••••





2. a). You are provided with a photograph with part of human skeleton. Use it to answer questions that follow.



i) Name the first vertebra labelled E and state how it is adapted to its function.	(4marks)
Name	•••••
Adaptations	
ii) Name the structure in the skull that articulates with the vertebra E	(1mark)
(iii) Below are two photographs of plants.	•••••
support support	
NA D	





(a) Identify support structures used by the plants in photographs M and R sho	
	(2marks)
(b) Other than the structures illustrated above, name any one support structur plants.	e in herbaceous (1 mark)
b) The photographs below represent some skeletal materials obtained from a	certain mammal.
Study them then answer the questions that follow. Study them then answer the questions that follow. Study them then answer the questions that follow. B B	
i) Identify fused bone labelled X	(1mark)
ii) Name parts S and T on photograph A and part U on photograph B	(3mrks)
iii) Name the type of joint formed at the proximal and distal end of bone B	(2marks)
Proximal end	•••••
Distal end	•••••
iv) Name the type of joint found in structure labelled X	(1mark)
	•••••





3. a).You are provided with specimen labelled P. Using a sharp scalpel, cut the specimen longitudinally to obtain two halves. Draw a large well labelled diagram of one of the sections obtained. (5marks)

b) i) Identify the agent of pollination of the above specimen	(1mark)
ii) Give three reasons for your answer above	(3 marks)
	•••••
iii) Describe the floral parts of specimen P	(4mark)
•••••••••••••••••••••••••••••••••••••••	••••••
•••••••••••••••••••••••••••••••••••••••	•••••••





TOPMARK 2022 PREDICTION KCSE SERIES 1

NAME	INDEX NO
SCHOOL	SIGN
DATE	

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

233/1

CHEMISTRY

Paper 1

Time: 2 Hours

INSTRUCTIONS TO CANDIDATES

- **a)** Write your name and index No. in the spaces provided above.
- **b)** Sign and write the date of the examination in space provided.
- **c)** Answer ALL the questions in the spaces provided.
- **d)** Mathematical tables and electronic calculators may be used for calculations
- e) All working must be clearly shown where necessary

FOR EXAMINER'S USE ONLY

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1-30	80	





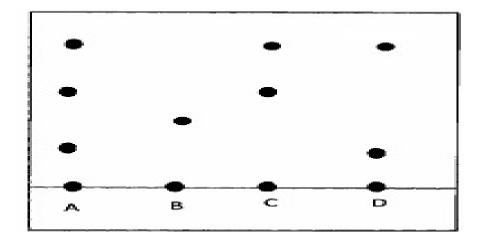
Answer ALL the questions in the spaces provided.

b) Sodium chloride is neither deliquescent nor hygroscopic. Explain why common salt left	1. a) Name the process used to separate two solids both soluble in the same the Solids are both present in the mixture (1 mk)	
on a table overnight becomes wet (2 mks)		common salt left (2 mks)
2. A liquid is added dropwise to 10 cm³ of house-hold ammonia solution. The pH value is note after the addition of every 10 drops and plotted on the graph below. 12 PH 8 10 20 30 Volume (cm³) of drops	PH 8 O 10 10 10 10 10 10 10 10 10	pH value is noted
From the evidence of this graph only, what is the nature of the liquid added? Explain you answer	From the evidence of this graph only, what is the nature of the liquid added? Exp	(2mks)





3. The following chromatogram was obtained in an experiment to investigate the components present in certain dyes.



a). Which two dyes when mixed would produce A?	(lmk)
	>
b) Which dye is pure?	(lmk)
c). Indicate on the diagram the probable position of the solvent front.	(lmk)
4. a) The pH of 0.001M solution of hydrochloric acid is about the same as the pl solution of ethanoic (acetic) acid. Explain	H of 0.IM (2mks)
b) In a reaction dilute hydrochloric acid was added to a colourless solution, precipitate which dissolved on warming was formed. Write an ionic equation of the white precipitate	





rite is the form	••••••	••••••••••••	••••••	(lmk)
xplain why R fo	orms a hydro	oxide with lov	v hoiling point	
7 (v boming point	(lmk)
erature. evaporating dish	h 14.32g		t to determine solu	ubility of potassi
	1 + salt =18.	60g		(1 mk
e solubility of p	ootassium ni	trate from the	specimen results	(2mk
	erature. evaporating dislevaporating disleva	evaporating dish 14.32g evaporating dish + solution evaporating dish + salt =18. olubility? e solubility of potassium ni	evaporating dish 14.32g evaporating dish + solution = 35.70g evaporating dish + salt = 18.60g elubility? e solubility of potassium nitrate from the	evaporating dish 14.32g evaporating dish + solution = 35.70g evaporating dish + salt =18.60g





7. a) Write an equation to show how carbon (IV) oxide can be obtained from	om limestone
(CaCO3) by heating (1 mk)	
•••••••••••••••••••••••••••••••••••••••	•••••
•••••••••••••••••••••••••••••••••••••••	•••••
b) Give two properties of Carbon (IV) Oxide that makes it suitable for use in	1
i) Extinguishing fire	(lmk)
-)	()
•••••••••••••••••••••••••••••••••••••••	•••••
	•••••
ii) Making of Fizzy drinks	(lmk)
	r •••••••
8. An element X has a Relative atomic mass of 88. When a current of 0.5 amps	s was passed
through the fused chloride of X for 32 minutes 10 seconds, 0.44g of X was depos	ited at the
cathode.	
(1F = 96500C).	
a) Calculate the number of faradays needed to liberate 1 mole of X	(2mks)
•••••••••••••••••••••••••••••••••••••••	•••••
•••••••••••••••••••••••••••••••••••••••	•••••
••••••••••••••••••••••••••••••••	•••••
b). Write the formula of the chloride of X	(1 mk)
	, ,
••••••	•••••



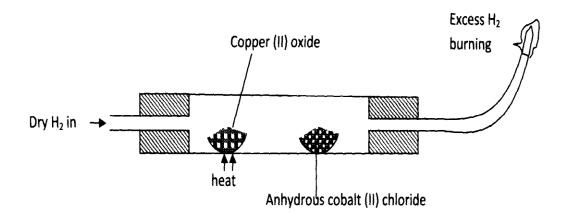


_	ey powder P, which has no action on cold water, is placed into a satisfied deposited. The blue solution of Q, fades giving way to a green satisfied by the solution of Q.	
a)	Name the type of reaction that takes place	(1 mk)
•••••	••••••••••••••••••••••••••••••	•••••••
•••••	•••••••••••	•••••
b)	Identify solids P and R	(2mks)
•••••	•••••••••••••••••••••••••••••••••••••••	•••••
•••••	••••••	•••••
On the same	Mass of container and content time diagram sketch the graph that would be obtained if smaller pieces your answer using the kinetic theory of matter	s of marble were (2mks)





11. The set-up below was used to investigate the effect of dry hydrogen gas on hot copper (ii) oxide powder.



Explain what is observed in the combustion tube during the experiment (3mks)
12. Consider the reversible reaction below
H_2 + I_2 \rightarrow 2HI $\Delta H = -53KJ$
(g) (g) (g)

Explain how each of the following factors would affect the concentration of hydrogen iodide

	Increase in temperature	(1 ½ mks)



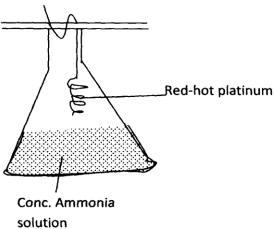


	b)	Adding heliun	n gas			$(1 \frac{1}{2} \text{ mks})$
•••	• • • • • • • • • • • • • • • • • • • •	•••••	•••••	••••••	•••••	•••••
•••	•••••	•••••	•••••	•••••	•••••	•••••
•••		••••	••••		•••••	•••••
1	3 Vou are pro	ovided with three	black nowder	re known to be	copper (ii) oxide,	manganasa (iv)
	_		_		een the three using	_
	nly	ii) saipinae. 110 w	would you di		on the three daing	, ny droemone dere
	·					(3mks)
• • • •					<u> </u>	•••••
		///			7 / >	
• • • •	\	V /	\ \\			V)
	\					7
• • •	· · · · · · · · · · · · · · · · · · ·			11		
	a) Tap wa	iter produces a pi	recipitate with	sodium carbon	ate solution. Expl	ain (1 mk)
• • •	• • • • • • • • • • • • • • • • • • • •))	f	<i>:</i>)······	•••••
•••	•••••		<i></i>			•••••
	b) State one	e advantage and	one disadvant	age of using the	water in (a) above	e in industry.
i)	Advantages	s				(l mk)
		••••				
• • •			•••••	•••••••	•••••	
	ii) Disac	lvantages				(lmk)
• • •	• • • • • • • • • • • • • • • • • • • •	••••••	•••••	••••••••	•••••	••••••





14. a) Potassium manganate (VII) reacts with chloride salts to produce chl	lorine. Both
chlorine and potassium manganate (VII) are strong oxidizing agents. Which one of	of the two is
the stronger oxidizing agent? Explain your answer	(2mks)
•••••••••••••••••••••••••••••••••••••••	•••••
	•••••
•••••••••••••••••••••••••••••••••••••••	•••••
•••••••••••••••••••••••••••••••••••••••	•••••
b) Chlorine and sulphur (IV) oxide are bleaching agents; explain the difference in	
bleaching action	(lmk)
1 (0) 0	
15. Calculate the number of molecules of water of crystallization in oxalic acid crystally Co. VH.O. from the following data. 5g of the crystals were made up to 250 cm ³ of	
H ₂ C ₂ O ₄ .XH ₂ O, from the following data. 5g of the crystals were made up to 250cm ³ of required 15.9cm ³ of 0.5M sodium hydroxide to neutralize it. (H=1, C=12, 0 16, H ₂ O 18	
required 13.9cm of 0.5M sodium hydroxide to fleutranze it. (11–1, C–12, 0 10, 11 ₂ 0 16	o) (Siliks)
······································	•••••
	•••••
	•••••
16. The set-up below shows the catalytic oxidation of ammonia in laboratory	•••••







One of the observations made in the tube is that the platinum wire stays red-hot even though it is no longer heated.

a)	Explain this observation	(lmk)
•••••		
b)	State another observation made in the conical flask	(1 mk)
•••••		
c)	Write an equation for the catalytic oxidation of ammonia	(lmk)
$ \wedge $		·,
/	electrodes were placed in a flask containing 50cm ³ of 0.1 M bariu	•
	nected in series with the 12 volt supply of direct current electricity aric acid was slowly run into the solution from a burette until neutral	_
a)	What would you see in the flask when the first few drops of acid	are added?
		(1 mk)
b)	At the neutrality point, the lamp ceases to glow, explain why?	
c)	What would you see if more 1.0 M sulphuric acid were now add	ed? (lmk)
•••••		





18. Use the standard electrode potentials given below to answer the questions that follow.

	E(Volts)	
$Ni^{2+}_{(aq)}/Ni_{(s)}$	-0.025	
$Zn^{2+}_{(aq)}/Zn_{(s)}$	-0.76	
$\operatorname{Cu}^{2^{+}}_{(aq)} / \operatorname{Cu}_{(s)}$	+0.34	
$F_{2(g)}/2F_{(aq)}$	+2.85	
$Br_{2(aq)}/2Br_{(aq)}$	+1.09	

	a) Which is the weakest reducing agent?	(l mk)
••••		, CV
••••	Below is the cell representation between the Zinc and $Zn_{(s)}/Zn^{2+}_{(aq)}/Pb^{2+}_{(aq)}/Pb_{(s)}$	d Lead half cells.
i)	What is the role of KCl?	(lmk)
ii)	Explain why the above cell cannot function	(1 mk)



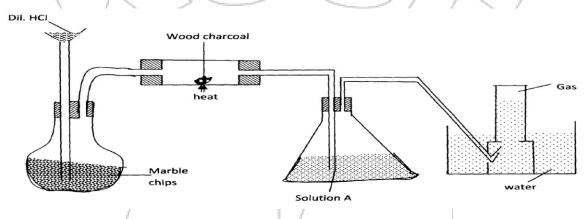


19. Use the information in the table below to answer the questions that follow

Salt	Lattice energy KJ/Mol	Hydration energy Kj/Mol
KCl	+718	-695
LiCl	+862	-883

If the two salts, Lithium chloride and potassium chloride were dissolved in water separately, which solution will its temperature be above and which solution will its temperature be below room temperature? Explain your answer (3mks)

20. Study the setup below and answer the questions that follow.



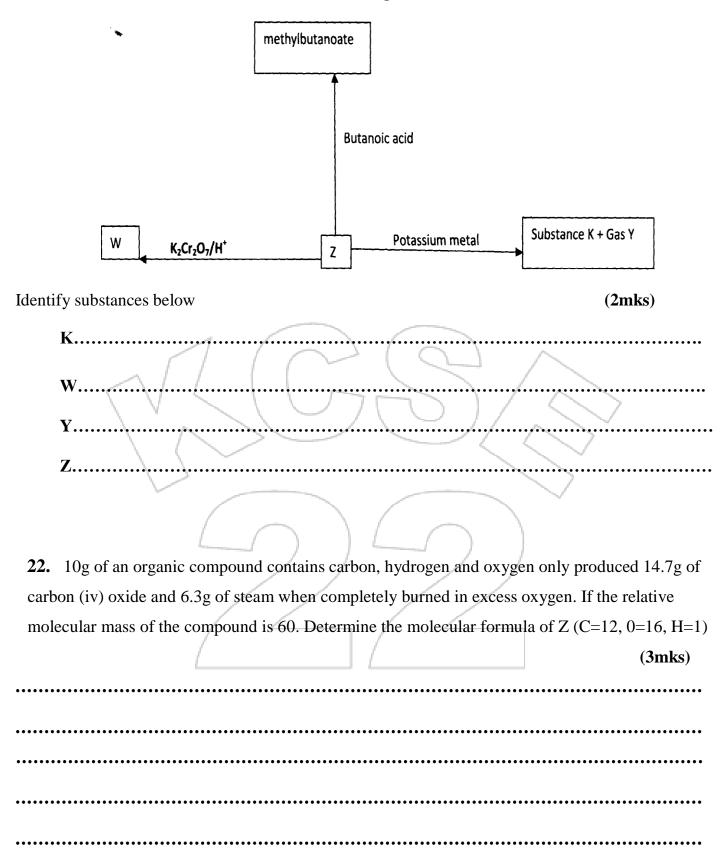
a) What is the role of solution A? (lmk)

b) Name gas X (lmk)

- c) Which property of carbon makes it suitable to be used in the combustion tube above?(1 mk)
 - 21. Study the flow chart below and use it to answer the questions that follow



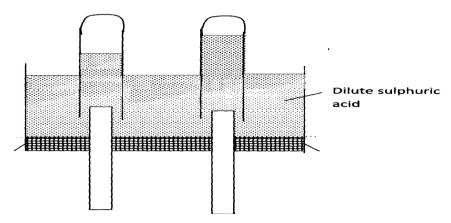








23. 100cm3 of 2M sulphuric acid was electrolyzed using the set-up represented by the diagram below.



a)	identify the anode and the cathode (label on the diagram)	(1 mk)
What is the effect o	n the electrolyte by the end of the experiment	(1 mk)

24. study the information in the diagram below and answer the questions that follow.(the letters do not represent the actual symbols of the elements)

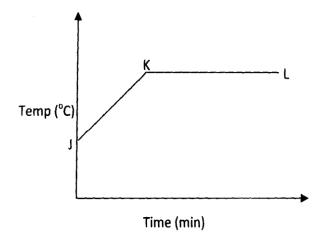
Element	Electronic configuration	Ionization energy KJ/Mol
P	2.1	519
Q	2.8.1	494
R	2.8.8.1	418

a). What is the general name given to the group in which elements P,0	
b). What is meant by ionization energy?	(1 mk)
c). Explain why element P has the highest ionization energy	





25. The graph below shows part of a temperature time curve obtained when solid naphthalene was heated.



Explain what happens to the naphthalene molecules along the curves

a)	JK ()	(lmk)
••••		
b)	KL	(lmk)
•••		••••••••••
26.	Oleum (H ₂ S ₂ 0 ₇) is an intermediate product in the industrial manufa a). How is Oleum converted to sulphuric acid?	cture of sulphuric acid. (1 mk)
••••	B) Why is the reaction below discouraged	(1 mk)
	b) with 15 the reaction octow discouraged	(1 IIIK)

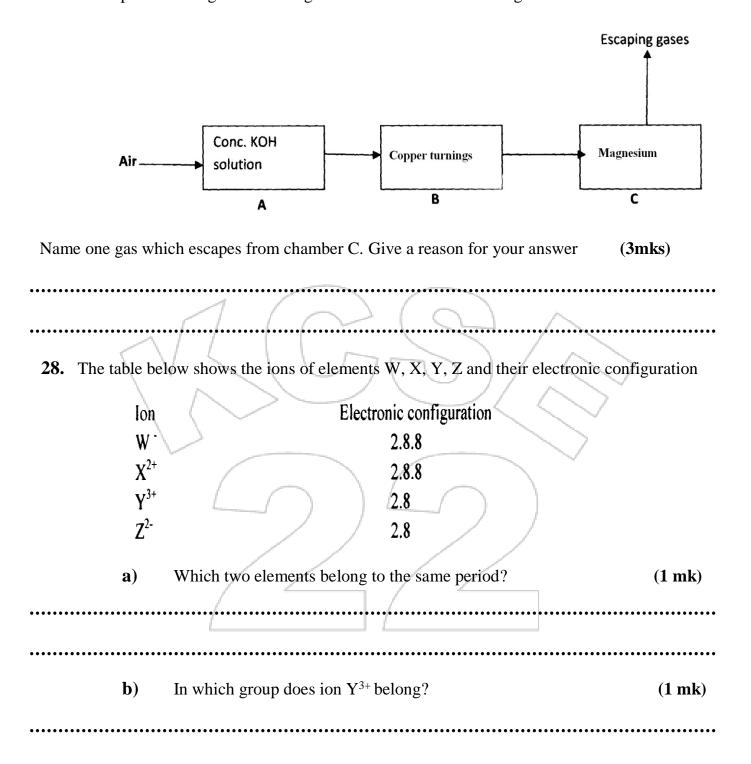


SO3(g)+H2O(l)



H2SO4(al)

27. Air is passed through several reagents as shown in the flow diagram below







TOPMARK 2022 PREDICTION KCSE SERIES 1

NAME	INDEX NO
SCHOOL	SIGN
DATE	

Kenya Certificate of Secondary Education (K.C.S.E)233/2

CHEMISTRY

PAPER 2
THEORY

TIME: 2 HRS

INSTRUCTIONS TO CANDIDATES

- 1. Answer ALL questions in t his paper in the spaces provided
- **2.** Mathematical tables and electronic calculators may be used for calculation
- 3. All working must be clearly shown where necessary

FOR EXAMINERS USE ONLY

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1	13	
2	11	
3	12	
4	12	
5	11	
6	14	
7	08	
TOTAL	80	





Answer ALL questions in t his paper in the spaces provided

1. (a) Study part of the periodic table below. The letters do not represent the actual symbols. Use the letters to answer the questions that follow.

			•				
F			J	J	K	L	M
0	P		R				

(i)	Which one element would form a divalent anion?	(1mark)
(ii)	Write formula of the compound formed when P reacts with L	(1mark)
•••••		
(iii) table	Monovalent cataion of X electronic configuration 2.8.8. Identify its position in the above.	periodic (1mark)
•••••		
(iv)	Identify most reactive metallic element	(1mark)
•••••		





(b) The table shows some properties and electron arrangements of common ions of elements represented by letters Q to X. Study the information provided then answer the questions that follow.

Element	Formula of ion	Ionic electron	Atomic Radius	Ionic
		arrangement		Radius
Q	Q ⁻	2.8	0.072	0.136
R	R ⁺	2.8.8	0.231	0.133
S	S3+	2.8	0.143	0.050
T	T2+	2.8.8	0.133	0.074
U	U2+	2.8	0.160	0.064
V	V^+	2.8	0.186	0.095
W	W3-	2.8.8	0.110	0.190
X	X-	2.8,8	0.099	0.181

(i)	Give the atomic numbers of elements T and Q (2marks)
(ii)	Select two non-metals that belong to the same period (1mark)
(iii)	Which two elements would react violently with water to produce hydrogen? (2marks)
••••••	
(c)	(i) Why is the atomic radius of R larger than its ionic radius? (2marks)
••••••	•••••••••••••••••••••••••••••••••••••••
	(ii) Element S is suitable for making cooking pans. Explain (2 marks)
•••••	•••••••••••••••••••••••••••••••••••••••





2. (a) Give the names of the following compounds

(i)	CH₃CHCHCH₂CH₃	(1mark)
(ii)	CH ₃ (CH ₂) ₂ COOH	(1mark)

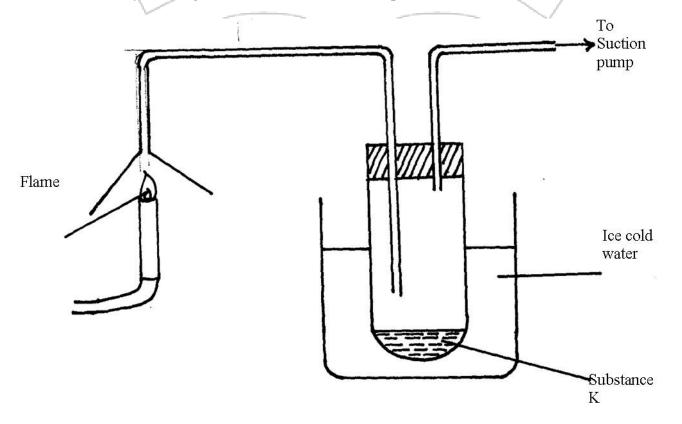
- **(b)** Ethane and ethane react with Bromine according to the equations given below.
- (i) $C2H6(g) + Br2(g) \rightarrow C2H5Br(l) + HBr(g)$
- (ii) $C2H4(g) + Br2(g) \rightarrow C2H4Br2(l)$

Name the type of bromination reacting taking place in (i) and (ii) above (1mark)

(i)

(ii)

(c) Study the diagram below and answer the questions that follow.







(i)	Write the equation for the complete combustion of butane
••••••	
(ii)	The pH of substance K was found to be less than 7.
	Explain the observation (2marks)
•••••	
••••••	
(d)	The polymerization of tetra fluorocarbon (C_2F_4) is similar to that of ethane (C_2H_4)
(i)	What is meant by polymerization? (1mark)
••••••	
(ii)	Draw the structural formula of the polymer obtained from monomer C ₂ H ₄ (1mark)
(iii)	State any two advantages of synthetic polymers over natural polymers. (2marks)
•••••	
(e)	Propanol and ethanoic acid react according to the following equation
	CH3CH2CH2OH (aq) +CH3COOH (aq) R (aq) +H2O (l)





TA T		
N.	Яm	P

	(i)	Product R	(1mark)
•••••	(ii)	The type of reaction that produce R	(1mark)
•••••	••••••		
	3.	Study the standard electrode potential for the half-cells given below ions that follow. The letters do not represent the actual symbols of the	
	1,	$\begin{array}{cccccccccccccccccccccccccccccccccccc$)
(i)	Identi	ify the strongest oxidizing agent. Give a reason for your answer (1	½ marks)
•••••	••••••		••••••
(ii) 		h two half-cells would produce the highest potential difference when o	••••••
•••••			(1mark)



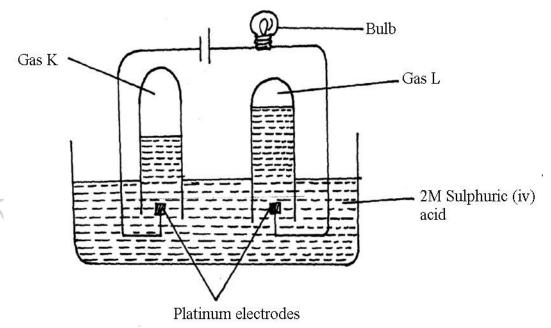


(iii) Explain whether the reaction represented below can take place

(2marks)

$$M(s) + 2N + (aq) \rightarrow M2 + (aq) + 2N(s)$$

(b) 100cm³ of 2M sulphuric (iv) acid was electrolyzed using the set-up represented diagram below.



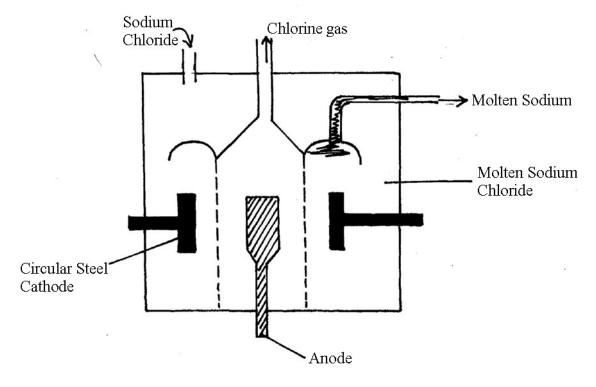
(1)	Write an equation for the reaction that produc	es gas L	(Imark)
(ii)	Describe how gas K can be identified		(1 ½ mks)
•••••		•••••	
(iii) (I) volui	Explain the differences in; me of gases produced at electrodes		(1mark)
•••••	•••••••	•••••	••••••





	Brightness of the bulb if 100cm ³ of 2M ethanoic acid was used in place of 2M sulphuric	(11)
acid	d (2ma	rks)
•••••		••••
,		••••
	(c) A current of 0.5A was passed for 2 hours. Calculate the mass of Lead deposited	
	$(Pb=207, IF=96500^{0}C)$ (2m)	arks)
• • • • • • •		••••
•		••••
• • • • • • •		•••••
	1 (2) (3)	•••••
		•••••
		•••••

4. (a) Below is a simplified diagram of a down's cell used in manufacture of Sodium. Study it and answer the questions that follow,







(i)Wha	at material is the anode made of?. Give a reason	(2marks)
(ii)	What precaution is taken to prevent chlorine and sodium from recombining	(1mark)
•••••		•••••
(iii)	Write an ionic equation for the reaction in which chlorine gas is formed.	(1mark)
(b)	In the Down's cell, a certain salt is added to lower the melting point of Sodride from 800°C to 600°C	ium
(i)	Name the salt that is added	(1mark)
(ii)	State why its necessary to lower melting point	(1mark)
••••••		
(c) sodi	Explain why its not suitable to use aqueous sodium chloride for the manufa um in the Down's process	cture of (2marks)
•••••••		••••••





	(d)	Sodium metal reacts with air to form two oxides. Give the formulae of the two oxides
•••••	•••••	
•••••	•••••	
•••••	•••••	
		(2marks)
	(e)	State two uses of sodium metal (2mark)
•••••	•••••	
•••••	•••••	
	5.	(a) Define the standard enthalpy of formation of a substance (1mark)
•••••	•••••	
•••••	•••••	
•••••	•••••	((()
	(b)	Use the thermo chemical equations below to answer the questions that follow.
		1. $C2H6(g) + 7/2 O2(g) \rightarrow 2CO2(g) + 3H2O(g) \Delta H1 = -1560 \text{KJmol-1}$
		2. C (graphite) +O2 (g) \rightarrow CO2 (g) Δ H2 = -394KJmol-1
		3. $H2 (g) + \frac{1}{2}O2 (g) \rightarrow H2O (g)$ $\Delta H3 = -286 \text{KJmol-1}$
	(i)	Name two types of heat changes represented by ${}^{\Delta}\!H_3$ (2marks)
•••••	•••••	
•••••	•••••	
•••••	•••••	





	(II)	Diav	v an energy	ievei diagraii	TOI the re	eaction repr	esemed by	equation 1	(2marks)
iii)	Calcu	ılate th	ne standard (enthalpy of fo	rmation o	f ethane	•••••	•••••	(2marks)
•••••	(iv)	Whe	n a sample	of ethane was	burnt, the	heat produ	ced raised	the tempera	ture of 500g
(I)		/	21.5k (spece for the rea	fic heat capacetion	city of wa	ter 4,2 Jg ⁻¹ k	Calcula	te;	(2marks)
•••••	••••••	•••••)[)····)·	•••••	•••••
	(II)	Mas	s of ethane t	hat was burnt	(Relative	formula m	ass of etha	ne = 30)	(1mark)
•••••	6.	(a)	Define th	e term solubil	ity	••••••••	•••••••	•••••	(2marks)
•••••	••••••	••••••			••••••	••••••	•••••	••••••	
	(b)								

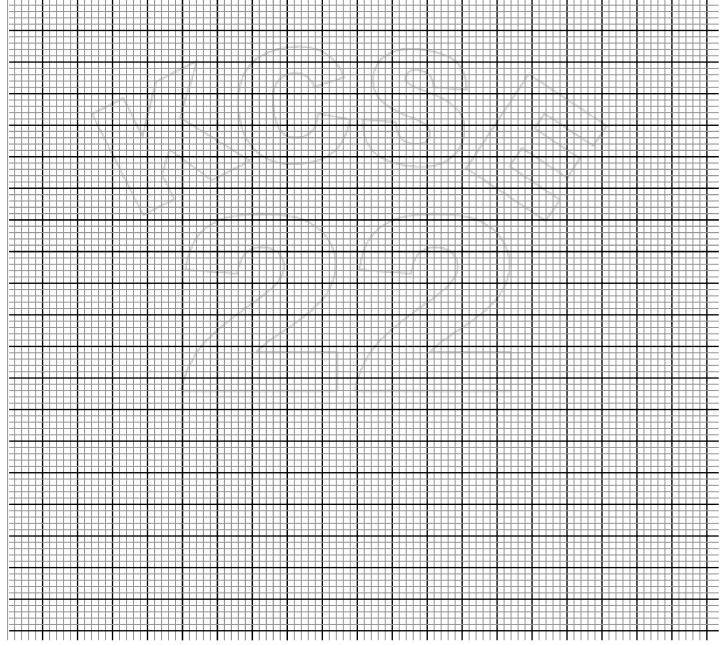
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Mass of KCl _(g)	20	20	20	20	20	20
Volume of water (cm ³)	40.0	45.0	50.0	55.0	60.0	65.0
Temperature at which crystals first appear (°C)	77.0	56.0	40.0	26.0	15.0	8.0
Solubility in g per 100g of water						

- (i) Complete the table above by calculating the solubility of KCl in grammes per 100g of water (3marks)
- (ii) Plot the graph of solubility in g/100g of water (y-axis) against temperature (x-axis) (3marks)





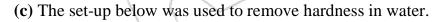


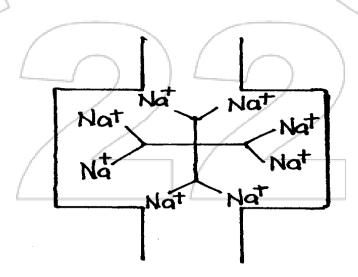
((iii)	From	vour	graph	determine	solubility	v at 50°C
٦	()	1 1 0 111	,	514011	GOLOTITITIO	DOIGOINE	,

(1mark)

(iv) If a saturated solution of potassium chloride is cooled from 70°C to 10°C. What mass of the crystals would be obtained? (2marks)

(v) Calculate the concentration of the saturated solution of 50°C. (K=39.0, Cl = 35.5) (2mks)





(i)	Identify the above method of removing water hardness	(1mark)
•••••		• • • • • • • • • • • • •
•••••	••••••••••••••••••••••••••••••••••••	• • • • • • • • • • • • • • • • • • • •
•••••		• • • • • • • • • • • • • • • • • • • •





		nbove system eventuivated.	ually lack the ability to sof	ften hard wate	r. Explain how it can be (1mark)
Ammoniacal brine Solvay tower P Gas A Heating Tower (Limestone) Gas B Water added Chamber R (a) Name (i) gases A and B (1mark)	(ii)	State any advantag	ge of hard water		(1mark)
Ammoniacal brine Solvay tower P Gas A Heating Tower (Liquid Chamber Q Chamber Q Chamber R Solid D Heat Gas B Water added Chamber R (Imark)				f sodium carbo	onate by the Solvay process. Study
		moniacal brine	Solvay tower P Gas A Heating Tower (Limestone) Water added	Liquid	Solid D Chamber Q Heat
(b) Name liquid C and Solid D (1mark)	•••••	(a) Name (i)	gases A and B	\	(1mark)
•••••••••••••••••••••••••••••••••••••••	•••••	(b) Name liquio	d C and Solid D		(1mark)





(c)	Write equations for the reactions taking place in tower P and chamber R	(2marks)
•••••		•••••
•••••		•••••
(d)	Name the product formed in chamber at chamber R and give one of its uses.	(2marks)
•••••		•••••••••••
(c) S	tate two uses of sodium carbonate	(1mark)
•••••		•••••••
•••••		••••••





TOPMARK 2022 PREDICTION KCSE SERIES 1

SCHOOL	SIGN

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

CHEMISTRY PRACTICAL PAPER 3 CONFIDENTIAL

This document must not be seen by the candidates whatsoever

- 1) 80cm³ of 0.5M lead (II) nitrate solution F
- 2) 60cm³ of 1M Potassium Iodide solution
- 3) 2g of solid A supplied in a stoppered container
- 4) 1g of solid P
- 5) 2cm of magnesium ribbon
- 6) Thermometer
- 7) One 250ml glass beaker
- 8) One boiling tube
- 9) One test-tube holder
- 10)One stop watch
- 11)10ml measuring cylinder
- 12)100ml measuring cylinder
- 13)One dropper
- **14**)30cm ruler
- **15**)10 labels
- 16)Test tube rack
- **17**)10 test tubes
- 18) Substance W calcium chloride
- 19) Distilled water in a wash bottle
- **20**) Solution E (aqueous sodium carbonate)
- 21) Tripod stand and wire gauze.
- **22**) Substance W I g of calcium chloride supplied in a stoppered container.





Access to

- Bunsen burner
- Acidified potassium dichromate (VI)
- Tissue paper
- Ethanol
- 2M ammonia solution
- 2M sodium hydroxide solution
- Bromine water

Notes:

Substance P - maleic acid
Substance A - sodium tetraborate decahydrate (sodium borax)
Substance W - calcium chloride

Preparation of solutions

- Solution E is obtained by dissolving 21.2g of sodium carbonate in 600cm³ of distilled water and diluting it to 1dm³ of solution (0.2M Sodium Carbonate)
- Acidified potassium dichromate (VI) is prepared by dissolving 25g of solid K₂Cr₂O₇ in 200cm³ of 2M H₂SO₄ and diluting with distilled water to make one litre of solution.
- Bromine water is done by taking 1cm³ of bromine liquid and diluting with distilled water to make 100cm³ of the solution in the fume chamber.





TOPMARK 2022 PREDICTION KCSE SERIES 1

NAME	INDEX NO
SCHOOL	SIGN
DATE	

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

233/3

CHEMISTRY

PAPER 3
PRACTICAL
2 1/4 Hours

INSTRUCTIONS TO CANDIDATES

- a) Write your name and Index Number in the spaces provided above.
- **b**) Sign and write date of examination in the spaces provided above.
- c) Answer all questions in the spaces provided in the question paper.
- d) All workings must be clearly shown where necessary. Mathematical tables and silent electronic calculators may be used.

FOR EXAMINERS USE ONLY.

MAXIMUM SCORE	CANDIDATES SCORE
10	
10	
13	
17	
	10



Answer all questions in the spaces provided

- 1. You are provided with: 2 g of substance A labelled solid A
 - You are required to determine the **solubility** of substance **A** in water.

Procedure 1

- i) Place 200cm³ of tap water in a 250ml beaker and keep it for use in step (VI)
- **ii**) Place all the substance **A** in a dry boiling tube boiling.
- iii) Using a burette measure 10.0cm³ of distilled water and add to substance **A** in the boiling tube.
- iv) While stirring the mixture in the boiling tube with a thermometer, warm the mixture using a Bunsen burner until the temperature rises to 65°C. Stop warming the mixture.
- v) Allow the mixture to **cool** while stirring with the thermometer.
- vi) When the temperature drops to 60°C, start the stop watch / clock, place the boiling tube in a beaker with tap water prepared in step (i) above.
- vii) Continue stirring and record the temperature of the mixture after two minutes then thereafter record the temperature of the mixture after every one minute interval and complete the table 1. Table 1.

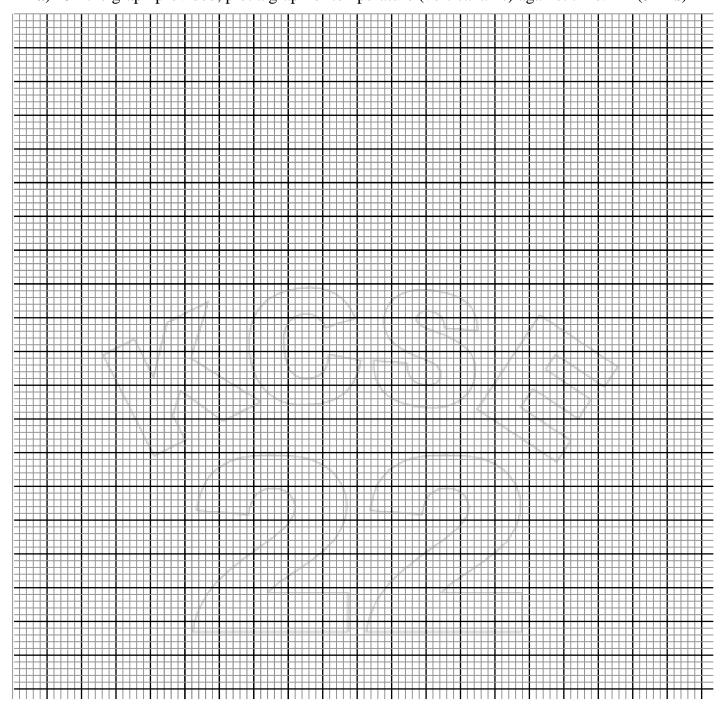
Time in	0	2	3	4	5	6	7/	8	9	10
minutes										
	/				/					
Temperature	60									
(°C)										

(4mks)





a) On the graph provided, plot a graph of temperature (vertical axis) against time. (3mks)



b) Using the graph, determine the temperature (T) when 2.0g of substance A dissolves completely in 10cm³ of distilled water.





c) Calculate the solubility of substance A in grammes per 100g of water at temperatures (T) (2mks)

2. You are provided with:

- 1M Potassium iodide solution
- 0.5m Lead (II) nitrate solution
- Ethanol

You are required to determine the formulae of lead (II) iodide and the equation for the reaction between lead (II) nitrate and potassium iodide.

PROCEDURE

Take 5 test tube and label them 1, 2,3,4,5 and 6,7. Using a burette add to separate test tube volumes of aqueous potassium iodide and aqueous lead (II) nitrate as shown in the table below; followed by 3-4 drops of ethanol. Stir and allow to settle. Measure the height of the precipitate in each test tube in mm and record the measurements in the table below.

Test tube no	1	2	/3	4	5	6	7	8
Volume of KI(cm ³)	2	3	4	5	6	7	8	9
Volume of Pb(NO ₃) ₂ cm ³	10	9	8	7	6	5	4	3
Height of the precipitate (mm)								





a) Plot a graph of height of the precipitate against the volume of lead (II) nitrate. **(4mks)**

b) Use your graph to

i) Find the maximum height of the precipitate formed.

(1mk)





ii) Determine the volume of the 0.5W I b (1003)2 used in b (1) above (11	ii)	Determine the volume of the 0.	.5M Pb (NO ₃) ₂ used in b (i) above	(1mk
--	-----	--------------------------------	--	------

iii) Determine the volume of 1M Potassium Iodide that completely reacts with 0.5M Pb (NO₃)_{2 (aq)} Potassium iodide solution. (2mks)

iv) Use your answer in b(ii) above to determine the number of moles iodide ions which reacts with one mole of lead (II) ions hence determine the formulae of lead (II) iodide.

(2mks)

- 3. You are provided with
 - Substance W 0.5g
 - Sodium hydroxide
 - Aqueous ammonia
 - Solution F aqueous lead (II) Nitrate
 - Distilled water in wash bottle
 - Source of heat
 - ${\bf a})$ Describe the appearance of substance ${\bf W}$





b) Add 10cm^3 water to substance **W**

Observation	Inference
$(^{1}/_{2}mk)$	$(\frac{1}{2}mk)$

c) Substance W is suspected to be calcium chloride.

From the reagent provided and results in procedure (b) above select and describe four tests that could be carried out consequently to confirm substance W is calcium chloride. Write the results and expected observation in the spaces provided. (6mks)

Test 1	Expected observation
(1mk)	(1mk)

Test 2	 Expected observation	
(1mk)	(1mk	





Expected observation	
(1mk)	
	(1mk)

- **d)** Carry out the tests described in (c) above using substance **W** and record the observations and inferences in the spaces provided.
- i) Test 1

Observation		Inference
	<i>></i>	
		, i
/		
	1))	(1mk)
		(1mk)
	<u>/</u>	

ii) Test 2

Inference	
(4 1)	
(1mk)	
	Inference (1mk)





•••		
111)	Test	4
111/	1 (3)	•

Observation	Inference
	(1mk)

4. You are provided with substance P.

Carry out the following test and record your observation and inferences in the spaces provided. Use above 2cm³ of portion of substance P in a test tube for each tests **a**, **b**, **c** and **d**

a) Add about 2 or 3 drops of bromine water.

OBSERVATION	INFERENCE
(1/2 mk)	(1/2mk)
/	

b) Add about 1cm³ of acidified potassium dichromate (VI) warm the mixture.

OBSERVATION	INFERENCE
(1mk)	(1mk)





c) Add about 1cm³ of solution to E (aqueous sodium carbonate provided)

OBSERVATION	INFERENCE
$(\frac{1}{2}mk)$	(1 <i>mk</i>)

d) Add the piece of magnesium ribbon provided

OBSERVATION	INFERENCE
(1/2 mk)	(1mk)





TOPMARK 2022 PREDICTION KCSE SERIES 1

NAME	INDEX NO
SCHOOL	SIGN
DATE	

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

232/1

PHYSICS

PAPER 1

TIME: 2 HOURS

INSTRUCTIONS TO THE CANDIDATES:

- 1) Write your name and index number in the spaces provided above.
- 2) Answer all the questions both in section A and B in the spaces provided below each question
- 3) All workings must be clearly shown; marks may be awarded for correct steps even if the answers are wrong.
- 4) Mathematical tables and silent electronic calculators may be used. Take $g = 10 \text{m/s}^2$

FOR EXAMINERS' USE ONLY

SECTION	QUESTION	MAX SCORE	CANDIDATE'SSCORE
A	1 - 10	25	
В	11	11	
	12	10	
	13	10	
	14	13	
	15	11	
TOTAL		80	

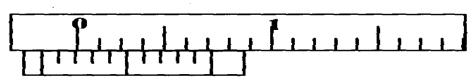




SECTION A(25 MARKS)

Answer questions in this section.

1. The figure below shows part of a vernier callipers when the jaws are closed without an object in between the jaws.

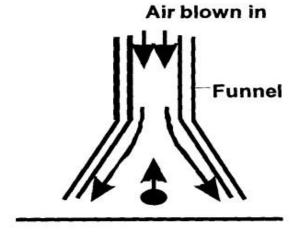


a)	State the zero error of the vernier callipers.	(1mk)
b) dian	A student used the same vernier calipers to measure the diameter of a test tube of a neter 2.15cm. What was the reading shown by the vernier callipers?	actual (2mks)
_	The diagram below shows a bimetallic wheel whose diameter is not affected by cherature. Briefly explain how the diameter of the wheel remains unchanged as the teleases.	_
••••	•••••••••••••••••••••••••••••••••••••••	,
••••		••••••



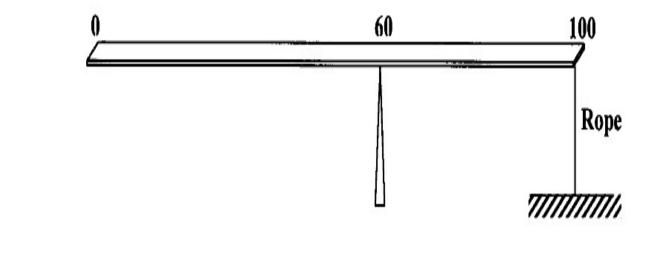


3. The figure below shows a pith ball being lifted into a funnel end of a blower.



Explain this observation				(2mks)
\mathcal{A}	/ ~ >	$\langle a \rangle$	^	
~ 11		1	/ / /	
(V)			/ (>	

4. A uniform meter rule of mass 40g is pivoted at the 60cm mark and held horizontal with a vertical rope as shown below. Determine the tension in the rope. (3 mks)







5. A uniform mixture of	onsists of 30cm ³ of w	ater and 40cm ³ of e	ethanol. If the densiti	es of water
and ethanol are 1 g/cm ³ ar	d 0.85 g/cm³ respecti	vely. Calculate the	density of the mixtur	re. (3mks)
•••••	•••••	•••••		
•••••	•••••	•••••		• • • • • • • • • • • • • • • • • • • •
•••••	•••••	•••••		• • • • • • • • • • • • • • • • • • • •
•••••	•••••	•••••		• • • • • • • • • • • • • • • • • • • •
•••••	•••••	•••••		• • • • • • • • • • • • • • • • • • • •
6. Water flows through the speed of water in the n	a narrow pipe of radi arrow pipe is 3mIs, de			
(V)		7 (((()		
\ \				
				• • • • • • • • • • • • • • • • • • • •
	.,	,	<u> </u>	• • • • • • • • • • • • • • • • • • • •
7. State one way of ma	king the surface tension			(1mk)
	,	<i>,</i>	•••••	••••••
	•••••		• • • • • • • • • • • • • • • • • • • •	••••••
8. A car undergoes unideceleration	form retardation from	36km/h covering a	distance of 25m. Ca	lculate its (2mks)
•••••	•••••	•••••		` ,
	•••••			
•••••	•••••	•••••		• • • • • • • • • • • • • • • • • • • •



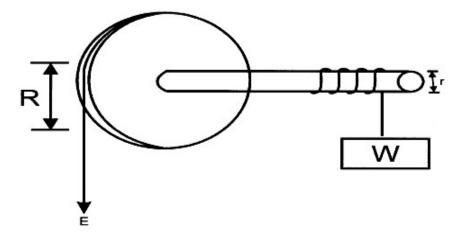


9. A constant mass of hydrogen occupies a volume of 4.0 cm ³ at a pressure of 2.0 x 10 ⁵ Pa and a
temperature of 288K. Calculate the volume of this gas at a pressure of 1.6x 10 ⁵ Pa when the
temperature is 125K. (3mks)
•••••••••••••••••••••••••••••••••••••••
•••••••••••••••••••••••••••••••••••••••
10. The figure below shows the change in volume of a liquid in a measuring cylinder when an irregular solid is immersed in it.
100
80 ====== 80
60
Given that the mass of the solid is 540g, determine the density of the solid in g/cm ³ . (2 mks)
······································
CECTION D (FF MADIZO)
SECTION B (55 MARKS)
Answer ALL questions in this section.
a) A machine is a device that enables work to be done more easily and conveniently. State any
two ways in which a machine makes work easier. (2 marks)
••••••
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b) Figure 7 shows a wheel and axle being used to raise a load W by applying an effort E. The radius of the wheel is R and of the axle is r.

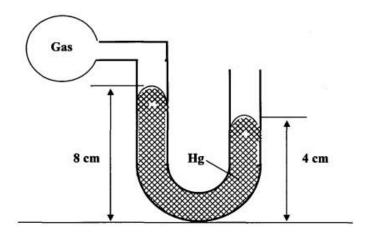


i)	Show that the velocity ratio (V.R) of this machine is given by $\frac{R}{r}$ (3 Marks)	•
••••		
ii) the eff	Given that $r = 5$ cm and $R = 50$ cm, determine the effort required to raise a load of 200N if ciency of the machine is 90%. (3 mks)	
•••••		•
•••••		•
•••••		••





c) An airtight flask containing a gas is connected to a mercury manometer. The levels of mercury in the two limbs of the manometer are as shown in the diagram below.



Calculate the pressure of the gas (Density of mercury = $1.36 \times 10^4 \text{ kg/m}^3$ and atmospher	ic pressure =
1.0 x10 ⁵ N/m ²)	(3mks)
12. a) State the law of flotation.	(1 mk)
	•••••
b) A block of glass of mass 0.25kg floats in mercury of density 1.36 x 10 ⁴ kgm ⁻³ . W of the glass lies under the surface of mercury?	hat volume (3 mks)
•••••••••••••••••••••••••••••••	





1	A steady force of 3000N is applied to s	stop a car of m	ass 1500Kg	moving at a v	elocity of
0m	s. How long does the vehicle take to stop	??			(3 mks)
••	••••••	,	•••••	•••••	• • • • • • • • • • • • • • • • • • • •
•••	••••••	,	••••••	•••••	• • • • • • • • • • • •
•••	•••••	•	•••••	•••••	• • • • • • • • • • • • • • • • • • • •
•••	••••••		••••••	•••••	• • • • • • • • • • • • • • • • • • • •
•••	•••••	•	••••••	•••••	• • • • • • • • • • • • • • • • • • • •
	A lift car carries 16 passengers of total	mass 1200 Kg	g. Calculate t	he force exert	ed on the lif
00	r when the lift accelerates upwards at 1.5	m/s ² .			(3mks)
•••		<u></u> (ç	<u></u>	/	• • • • • • • • • • • • •
•••				/ <u>,</u>	• • • • • • • • • • • • • • • • • • • •
•••		/_\	<u>))/</u>		7
•••				<u>.()</u>	•••••
	a) Define a radian)	(1mk)
••			,/,	<i>(</i>	•••••
••	//	·····///		•••••	••••••
-	Three masses are placed on a rotating table	e at distances 6	5cm, 9cm and	d 12cm respec	ctively from
е (centre of rotation. When the frequency of	rotation is vari	ed it is noted	that each ma	ss slides of
li	fferent frequency of rotation of the table.	The table below	w shows the	frequency at v	which each
as	s slides off.				
	Radius, r (cm)	12	9	6	
	Sliding off frequency (rev/s)	0.5	0.8	1.1	
	State two factors that determine the fre	quency at which	ch each mass	s slides off.	(2 mar





ii)	Oil is now poured on the table before placing the masses. Explain the effect of this	on the
freque	ency at which the mass slides off.	(2 mks)
•••••	•••••••••••••••••••••••••••••••••••••••	•••••
•••••		•••••
c)	A marked point on a rim of a wheel has a linear velocity of 11 .2m/s. If the rim has	a radius of
	, calculate;	
i)	The angular velocity of the point	(3 mks)
ii)	The centripetal acceleration.	(2 mks)
14.	(a) What is meant by specific latent heat of Vaporization?	(1mk)
•••••		••••••
•••••	•••••••••••••••••••••••••••••••••••••••	••••••
(b)	In an experiment to determine the specific latent heat of vaporization of water, stea	am at
100°C	C was passed into water contained in a well lagged copper calorimeter.	
The fo	bllowing measurements were made:	
Mass o	of calorimeter = 50g	
Initial	mass of water =70g	
Initial	temperature of water = 5° C	
Final r	mass of water + Calorimeter + condensed steam = 123g	





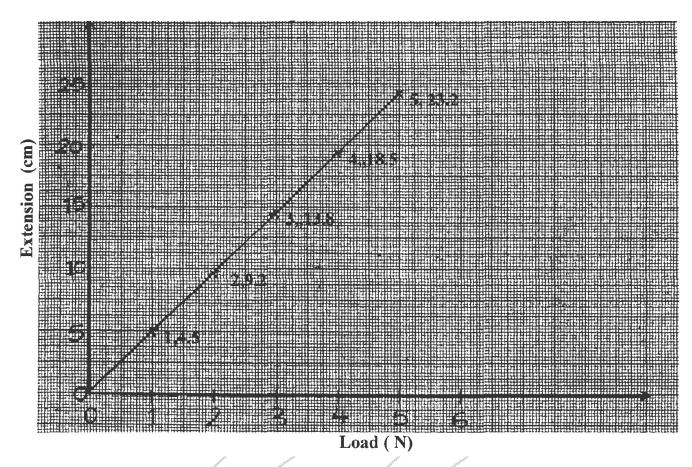
Final	temperature of mixture =30°C	
Spec	rific heat capacity of water = 4200Jkg ⁻¹ k ⁻¹	
Spec	rific heat capacity of copper =390J kg ⁻¹ k ⁻¹ .	
Dete	ermine the:	
(i)	Mass of condensed steam	(2mks)
(ii)	Heat gained by water and calorimeter.	(3mks)
(c)	Given that L is the specific latent heat of vaporization of steam	>
(i)	Write an expression for the heat given out by steam.	(1 mk)
(ii)	Determine the value of L	(3mks)
	500g of water at 20°C is mixed with 200g of water at 55°C Find the final temper	
mixi	ture.	(3mks)
••••		•••••
••••		•••••
••••		•••••
••••		•••••
TONYA RE	©2022 The Kenya National Framinations Council	SUNTA NATIO





15. a) State Hooke's law. (1mk)

b) The graph shows how extension of a helical spring varied with load, hanging on it.



Determine from the graph, the proportionality constant of the spring.

(3mks)





c)	State two factors that affect the proportionality constant of a helical spring.	(2mks)
••••		•••••••••••••••••••••••••••••••••••••••
	Two springs Q and R have proportionality constants 20Nm ⁻¹ and 25Nm ⁻¹ resp ghs 0.2 N while the weight of R is negligible. The two springs are arranged to sup N as shown in the diagram below.	
	3.017	>
Dete i)	ermine the extension in Q	(2mks)
••••		•••••••••••••••••••••••••••••••••••••••
ii) 	R	(2mks)
••••		• • • • • • • • • • • • • • • • • • • •





TOPMARK 2022 PREDICTION KCSE SERIES 1

NAME	INDEX NO
SCHOOL	SIGN
DATE	

Kenya Certificate of Secondary Education (K.C.S.E)
232/2

PHYSICS

PAPER 2

TIME: 2 HRS

INSTRUCTIONS TO THE CANDIDATES:

- (a) Write your name and Adm no in the spaces provided above.
- (b) Write the stream in the space provided above.
- (c) This paper consists of two Sections A and B.
- (d) Answer all the questions in sections A and B in the spaces provided below each question.
- (e) All working **must** be clearly shown in the spaces provided below each question.
- (f) Non-programmable silent electronic calculators and KNEC Mathematical tables may be used.

FOR EXAMINER'S USE ONLY:

Section	Question	Maximum Score	Candidate's Score
A	1 – 12	25	
	13	09	
В	14	12	
	15	12	
	16	09	
	17	07	
	18	06	
Te	otal Score	80	





SECTION A: 25 MARKS

1) State one property of light that a pinhole camera illustrates.	(1 mark)
	••••••••••••••••••••••••••••••••
2) It is observed that when a rod A is brought near the cap of a negatively characteristic electroscope, the divergence of the leaf decreases. State two deductions the about rod A from this observation.	_
	·····
3) State the purpose of manganese (IV) oxide in a dry cell.	(1 mark)
4) A soft iron ring is placed between two poles of a magnet as shown in the fi	igure below
4) A soft from ring is placed between two poles of a magnet as shown in the fi	igule below.
N	
i. Show on the figure the magnetic field pattern between the poles.	(2 marks)
ii. State one application of soft iron in magnetism.	(1 mark)
•••••••••••••••••••••••••••••••••••••••	••••••

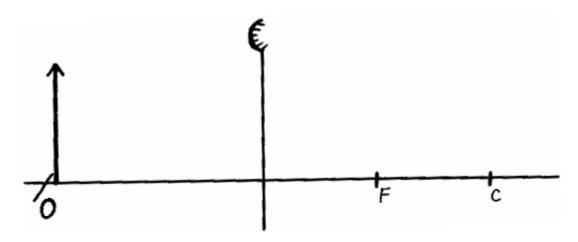




5) An object O is placed in front of convex mirror as shown in the diagram below.

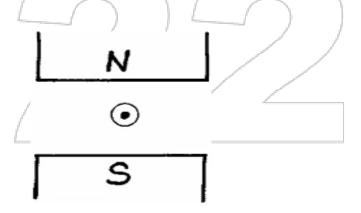
i. Co	mplete th	e diagram	to locate	the position	n of the	image, 1	1.
-------	-----------	-----------	-----------	--------------	----------	----------	----

(3 marks)



ii. State one	practical	l application	of a convex m	irror.		(1 mark)
		//			<u> </u>	
	/ /				1/	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\

6) The figure below shows a wire carrying current whose direction is out of the paper. The wire is placed in a magnetic field.



i.	Indicate on the	he figure t	he direction	of the force	e F, acting on the wire.	(1 mark)
----	-----------------	-------------	--------------	--------------	--------------------------	----------

ii. State wha	at would be observed on the	wire if the direction of	of the current is reversed	d (i.e. into
the paper	·).			(1 mark)
•••••	•••••	••••••	•••••	•••••





7) A cell of internal resistance 0.5Ω is in a circuit containing 10Ω resist flows in the circuit, determine the E.M.F of the cell.	tor. A current of 2A (3marks)
•••••••••••••••••••••••••••••••••••••••	
•••••	•••••
•••••••••••••••••••••••••••••••••••••••	••••••
8) State one example of a transverse-progressive wave.	(1 mark)
$\mathcal{A} \wedge \mathcal{A} \wedge $	
9) A man, standing between 2 parallel vertical walls, claps his hands. He 0.3 seconds later and the next echo after a further 0.2 seconds. If the vair is 300m/s, calculate the distance between the walls.	
10) State: i. two applications of microwaves.	(2 marks)
•••••••••••••••••••••••••••••••••••••••	•••••
•••••••••••••••••••••••••••••••••••••••	
ii. one detector of infrared radiation.	(1 mark)





11) State one factor that affects the speed of sound in a solid.	(1 mark)
12) The figure shown below illustrates crests of circular water wave-front a point source O in a pond.	s radiating from
Point Source	
i. State how the depth of the pond at A compares with that at B.	(1 mark)
SECTION B: 55 MARKS	
13) (a) State the meaning of the term critical angle as applied in refraction of 1	ight. (1 mark)
	•••••
	• • • • • • • • • • • • • • • • • • • •
The figure shows a ray of light incident on a glass-air interface.	
Air Glass	
a. Show on the diagram the critical angle, c .	(1 mark)

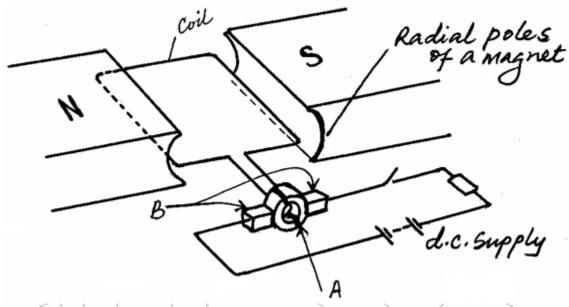


b. dete	Given that the refractive index of the glass is ${}_a\eta_g$, and that the critical angle ${\bf c}=42^{\circ},$ ermine the value of is ${}_a\eta_g.$ (3 marks)
	igure shows an experimental set up consisting of a mounted convex lens L , cardboard n with cross-wires at the centre, a plane mirror, a metre rule and a candle.
	Cross-wires Canalle Metre rule
Des	scribe how the set-up may be used to determine the focal length, f, of the lens.(4 marks)
•••••	





14) (a) The figure below shows parts of a simple electric motor.



(i)	Name the parts labeled A and B .	(2 marks)
i. A		
ii. B		((\ \)

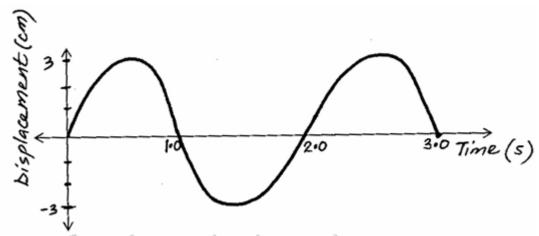
(ii) State the function of each of the parts named in part (i) above. (2 marks)		
A		
В		
b. State the advantage of using curved poles of a magnet over plane poles.	(1 mark)	

c. Explain the significance of copper coil as part of an electric motor.	(2 marks)





b).The graph in the figure below shows the displacement of a pendulum bob from its rest position as it varies with time.



(i) Determine the amplitude of the oscillation.

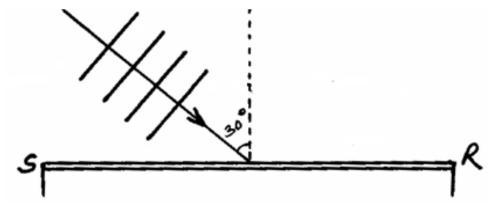
(1 mark)

(ii) Determine the time for one complete oscillation.

(1 mark)

On the same graph, draw a sketch graph which represents a pendulum swinging with half the amplitude and twice the frequency. (2 marks)

Plane water wave fronts are incident onto reflector **SR** as shown in the figure below. Show on the diagram the nature and direction of the reflected wave fronts. (1 mark)





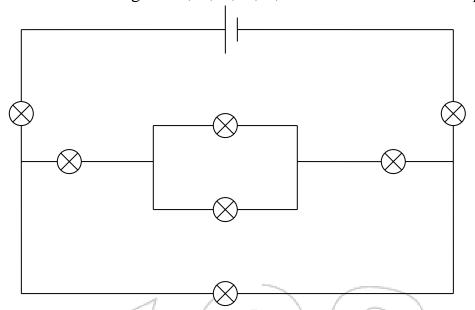


15) a) (i) State Ohm's law	(1 mark)
•••••••••••••••••••••••••••••••••••••••	•••••
•••••••••••••••••••••••••••••••••••••••	
A current of 0.5 A flows through two resistors R_1 and R_2 connected in series to a battery. When R_1 only is connected to the battery, the current flowing through it Calculate the	
i. Value of R ₂	(3 marks)
${f ii.}$ Current flowing when R_1 and R_2 are connected in parallel with the same battery.	. (2 marks)
(iii) Recharging is one of the practices of maintenance of accumulators. State one measurement, which need to be taken to help you decide when an accumulator is charging	
	•••••
••••••	





b. In the circuit diagram A, B, C, D, E, F and G are identical lamps.

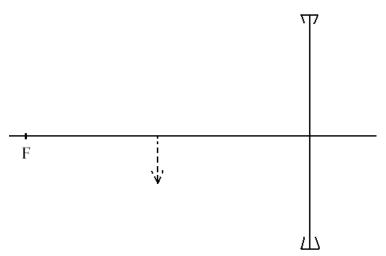


are the origines	st and which are	me ummest.	The state of the s	(2 marks)
		$\supset $		
7			\supset	
etween lamps I	3 and F, explain	the change of bri	ghtness in th	
	etween lamps I	etween lamps B and F, explain		etween lamps B and F, explain the change of brightness in th





16) a) Complete the diagram below indicating the rays that will lead to the formation of the image shown below. (2 marks)



b).A compound microscope with an objective lens L_o of focal length 1.2cm and an eye piece lens L_e of focal length 2.8cm. An object is placed 1.8cm from the objective lens. The system of lenses produces a final image a distance of 12.0cm from L_e . Determine the distance of separation of lens L_o and L_e . (4 marks)



c). An object is placed 12cm from a convex lens and it forms a virtual image 36cm from the lens. Calculate the focal length of the lens. (3 marks)





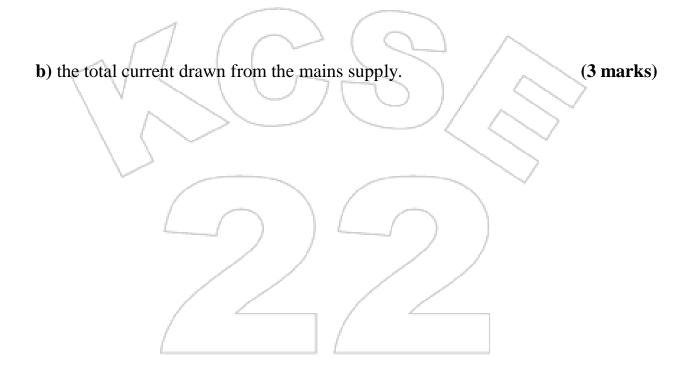
17)	(a)State two properties of electric field lines.	(2 marks)
(b)	The figure below shows part of a circuit containing three capa	acitors.
	$\frac{1}{A} \frac{1}{3\mu F}$ $\frac{2\mu F}{A}$	3
(i).C	alculate the effective capacitance between A and B .	(3 marks)
•••••		
		\searrow
		\
flowi	iven that the potential difference (p.d.) across AB is 10V, deteng through the circuit.	(1 mark)
•••••		••••••••••••
	how an increase in thickness affects electrical resistance of a c	





18) A house has twenty 60 W bulbs, two 1000 W heater and two 500 W security lights. If the appliances are running on 230 V, calculate:

a) the total power in Kw used when all are switched on. (3 marks)







TOPMARK 2022 PREDICTION KCSE SERIES 1

SCHOOL	SIGN

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

PHYSICS

PAPER 3

Confidential

The information contained in this **KCSE Physics Prediction paper** is to enable the head of the school and the teacher in charge of Physics to make adequate preparations for the **232/3 Physics** Practical examination.

No one else should have access to this information either directly or indirectly.

The following apparatus should be provided for the Physics practical paper

Question one

You are provided with the following:

- 2 new dry cells size D
- A cell holder
- A switch
- A millimeter of range 0 to 1 mA
- A capacitor labeled C (2200μF)
- 8 connecting wires; at least four with crocodile clips on one end
- A stopwatch
- A carbon resistor labeled R ($4.7K\Omega$)





Question Two

You are provided with the following;

- a rectangular glass block of dimensions; 9.6cm X 6.0cm X 2.4cm (Tolerance + or 0.2cm)
- 4 optical pins
- 2 thumb pins
- a soft board
- a plain paper







TOPMARK 2022 PREDICTION KCSE SERIES 1

NAME	INDEX NO
SCHOOL	SIGN
DATE	

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

PHYSICS
PAPER 3
(PRACTICAL)
TIME: 2 1/2 HRS

INSTRUCTIONS TO CANDIDATES

- *a)* Answer all the questions in the spaces provided in this question paper.
- *b)* You are supposed to spend the first **15 minutes** of the **2** ½ **hrs** allowed for this paper reading the whole paper carefully before commencing your work.
- c) Marks will be given for clear record of the observations actually made, their suitability, accuracy and the use made of them.
- *d)* Candidates are advised to record their observations as soon as they are made.
- *e)* Non-programmable silent electronic calculators and KNEC mathematical tables may be used.

FOR EXAMINERS USE ONLY

QUESTION	MAX. SCORE	CANDIDATES SCORE
1	20	
2	20	
TOTAL	40	





Answer all the questions in the spaces provided

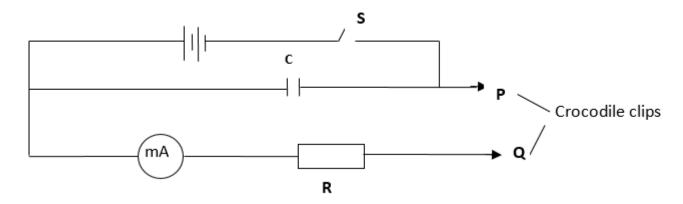
QUESTION ONE

You are provided with the following:

- 2 new dry cells size D
- A cell holder
- A switch
- A millimeter of range 0 to 1 mA
- A capacitor labeled C
- 8 connecting wires; at least four with crocodile clips on one end
- A stopwatch
- A carbon resistor labeled **R**

Proceed as follows

a. Connect the circuit as shown in the figure 1 below, where P and Q are crocodile clips.



b.	<i>-</i>		41 ₋ -	switc	1_ 6	•
n		INCA :	The	CWATC	n	•
17.	· .	IUNC	uic	SWILL	11 1	. 7

. Name the	process which tak	kes place when the	switch S is closed	
•	/	. /		

d. Connect the crocodile clips P and Q. Observe and record the highest reading of the millimeter $\mathbf{I_0}$

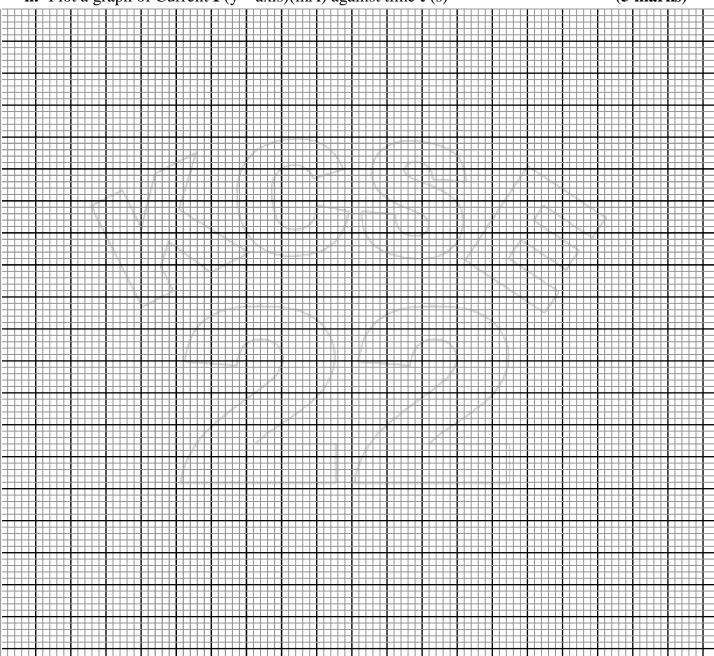
- e. Open the switch S and at the same time start the stopwatch to measure the time taken for the current to decrease to **four fifth** the value of I_0 i.e. $\frac{4}{5}I_0$. Record your value in the **table 1**.
- f. Close the switch S for a second time and observe the deflection in the millimeter. (the pointer should rise back to the same initial value I_o)
- g. Repeat part (b) for other values of current as shown in the table 1 below. (8 marks)





Current I (mA)	$^4/_5$ I_o	³ / ₄ I _o	² / ₃ I _o	$I_{0}^{1/2}$	² / ₅ I _o	¹ / ₃ I _o	¹ / ₄ I ₀
Your calculated fraction of I ₀ (mA)							
Time t (s)							

h. Plot a graph of Current I(y - axis) (mA) against time t(s) (5 marks)



i. From your graph, find W the value of I when t = 10s.

(2 marks)





j. Given that $A = 10W$, determine the value of A . (2 marks)
k. Determine the voltage across R at $t = 10s$ given that $R = 4.7k\Omega$ (1 mark)
Question Two

You are provided with the following;

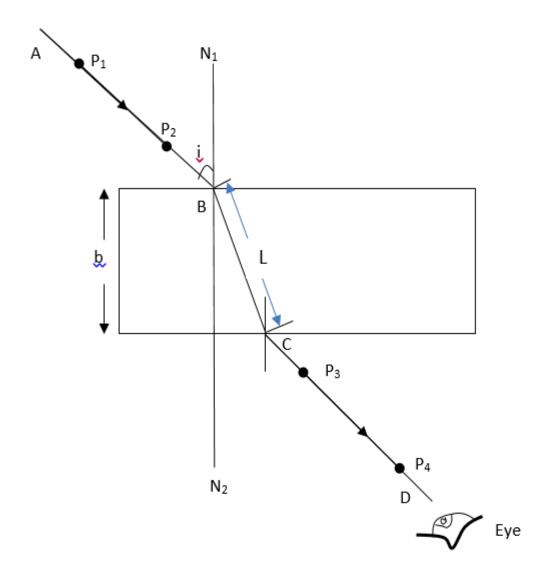
- a rectangular glass block
- 4 optical pins
- 2 thumb pins
- a soft board
- a plain paper





Proceed as follows:

(a) Place the glass block on the plain paper with one of the largest face upper most. Trace round the glass block using a pencil as shown below.



(b) Remove the glass block and construct a normal at B. Construct an incident ray AB of angle of incidence, $i = 20^{\circ}$.

(c) Measure the breadth **b** of the glass block (1 mark)





- (c) Replace the glass block and trace the ray ABCD using the optical pins.
- (d) Remove the glass block and draw the path of the ray ABCD using a pencil.
- (e) Measure the length L and record it in the table below

Angle	L	L^2	$\frac{1}{L^2}$ (cm-2)	Sin²i
\dot{i}^{0}	(cm)	$(cm)^2$	L	
20				
	1/			
30		5)/]/P	
40				
50				
60				
70				

(6 marks)

- **(f)** Repeat the procedure above for the angles of incidence given.
- (g) Calculate the values of $\frac{1}{L^2}$ and $\sin^2 I$; and record in the table above.
- (h) Plot a graph of $\frac{1}{L^2}$ (y-axis) against Sin²i. (5 marks)





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Given that the equation of that graph is; $\frac{1}{L^2} = -\left(\frac{1}{0.1n^2b^2}\right)^2 \sin^2 i + \frac{1}{b^2}$

(j)	Determine the value of n	(3 marks)
•••••	•••••••••••••••••••••••••••••••••••••••	••••••
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(k) P	resent your work sheet; attached to the exam paper	(2 mark)

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TOPMARK 2022 PREDICTION KCSE SERIES 1

NAME	INDEX NO
SCHOOL	SIGN
DATE	

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

443/1

AGRICULTURE

Paper1

Time: 2 Hours

INSTRUCTIONS TO CANDIDATES

- Write your name and Index Number in the spaces provided above.
- Sign and write the date of examination in the space provided above
- This paper consists of THREE section A,B and C.
- Answer ALL the questions in section in sections A and B.
- Answer any two questions from section C.

SECTION	QUESTION	MAXIMUM	CANDIDATES SCORE
A	1-19	30	
В	20-26	20	
С	27-29	20	
		20	





SECTION A (30 MARKS)

Answer all the questions in this section in the spaces provided.

1. a) State three ways by which agriculture contributes to national development.(1	1/2 mk)
	•••••
	••••••
b) State two effects of high level of Education and technology on agricultural pr	
	(1mk)
	•••••
2. Name two insect pests that attack sorghum in the field.	(1mk)
(•••••
	•••••
3. State two conditions when opportunity costs are zero.	(1mk)
	•••••
	•••••
4. State four conditions limiting shifting cultivation.	(2mks)
•••••••••••••••••••••••••••••••••••••••	
	• • • • • • • • • • • • • • • • • • • •





a) Si	tate three reasons for practicing grafting in citrus production	(1/½ n
•••••		••••••
b) G	rive the method used in breaking seed dormancy in the following crop;	••••••
i)	Calliandra	(½ mk
••••		
ii)	Rice	
••••		<u> </u>
6.	Name two ways by which the PH of a soil is raised.	(1mk)
•••••		• • • • • • • • • • • • • • • • • • • •
•••••		••••
7.	State four reasons why organic matter is necessary in the soil	(2mks)
•••••		
•••••		•••••
 8.	State two disadvantages of surface irrigation.	(1mk)





•••••	••••••••••••••••••••••••	
9.	State two advantages of mixed pasture.	(1mk)
10.	Mention four types of soil erosion water.	(1mk)
•••••	••••••	
••••••		•••••
11.	State two conditions for maximum efficiently of herbicides.	(1mk)
••••••	State two functions of polythene-sheet when used as mulch material.	
13.	State four principals of cooperative societies. In Kenya	(2mk)





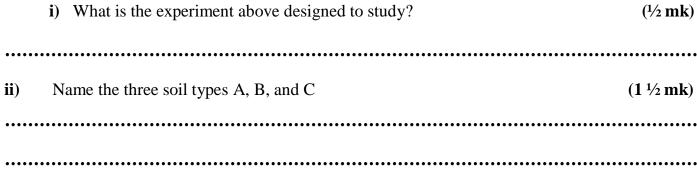
••••	14.	Differentiate between coppicing and pinching out.	(2mks)
•••••	•••••		•••••
	15.	State two sources of nitrogen in the soil for plants.	(1mk)
•••••			••••••
•••••	16.	Give two benefits of possessing certificate of land ownership.	(1mk)
•••••	17.	State four ways of improving labour efficiency in the farm.	(2mks)
•••••	•••••	<u> </u>	•••••
•••••	•••••		•••••
•••••	18.	State any two benefits of minimum tillage.	(2mks)
•••••	•••••	•••••••••••••••••••••••••••••••••••••••	
i)	Harde	reason why each of the following nursery management practices are carried ening off	(1mk





	ACSE Predictions Warking Schemes - 0746 222 000	
ii)	Watering before transporting seedlings from the nursery bed.	(1mk)
•••••	•••••••••••••••••••••••••••••••••••••••	•••••
iii)	Hardening in onions	(1mk)
•••••		••••••
	SECTION B (20MARKS)	
	SECTION D (ZUNIARRS)	
	Answer all the questions in this section in its spaces provided.	
20. made	The diagram below shows an experiment set up using soil types A, B and C and after 24 hours.	observations

Water Level Clamp Water Level Water Trough Level Water **Cotton Wool**







•••••	••••••	•••••
iii)	What is the characteristic textures of soil types A and C?	(1mk)
	\mathbf{A}	
	\mathbf{C}	
iv)	State how a farmer would improve the structure of soil type A	(½ mk)
20. Belo	ow is a diagram of a bird which is a crop pest. e pest.	' (½ mk)
State three	ways by which the bird causes loss in crops	(1 ½ mks)
••••••		
	O methods that can be used in the control of the pest.	(1mk)





22. Below is a diagram of a tomato plant.	
i) Identify the practice illustrated	(½ mk)
ii) Describe the procedure followed in spraying the crops with a fungicide in power	form, water
and a knapsack sprayer.	(1 ½ mks)
	•••••
	•••••
iii) Name one fungal diseases that can be controlled in the crop using the procedure a	above.
	(½ mk)
••••••	•••••
	• • • • • • • • • • • • • • • • • • • •
iv) State two safety measures that shoulder be taken while spraying the crops with a fung	ricides
1v) State two safety measures that shoulder be taken while spraying the crops with a rung	(1mk)
••••••	•••••
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23. A farmer can combine dairy meal and home made fees in feeding dairy cattle. Study the table below answer Questions that following.

Dairy meal (kg)	Home made feed (Kg)	Marginal Rate of Substitution
1	48	0
2	39	V
3	32	7
4	27	W
5		4
6	21	×
7	20)/ 1
8	19	Y

i)	Given the information above, Calculate the marginal rate of substitution and give		
	values of V, W, X, and Y.	(2mks)	
••••		•••••••	
••••			
• \			
i)	Given that the price of dairy meal is Ksh 8.00 per kg. and that of home made feed		
	is Kshs 2/kg, calculate the least cost contribution.	$(1 \frac{1}{2} \text{ mks})$	
••••		•••••	
••••			





24.	Given that at a price of Ksh 2000 per bag 20 bags of maize are dema	anded but when the
price	changes to Kshs 1800 /bag, 22 bags are demanded.	
	Calculated the Elasticity of demand. (Show your working)	$(1 \frac{1}{2} \text{ mks})$
••••		
•••••	•••••••••••••••••••••••••••••••••••••••	•••••
•••••		•••••
	What type of elasticity of demand is this in 24 (i) above?	(½ mk)
~ -		A
25.	The diagram below is a presentation of a cross section through a com-	ipost heap.
	Dry leaves	
		- す
		- H -G
		- F
	0991	[—] Maize Stalk Foundation
	000000000000000000000000000000000000000	
i)	Name the parts labeled O,F,G,H and J	$(2 \frac{1}{2} \text{ mks})$
E		•••••
E		
Г	•••••••••••••••••••••••••••••••••••••••	••••••
G		••••••
Н		





ii)	Give importance of the parts labeled J, H and G.	(1 ½ mk)
	J	••••
	Н	•••••
	G	•••••
26.	The diagram below illustrates a weed.	
i)	Identify the weed	(½ mk)
•••••		•••••
ii)	State one competitive ability of the weed illustrate above.	(½ mk)
•••••	•••••••••••••••••••••••••••••••	• • • • • • • • • • • • • • • • • • • •





SECTION C

	Answer any	two o	questions	from tl	<u>his section</u>	in the	spaces	<u>provided</u>	after	question	<u> 29.</u>	27.
--	------------	-------	-----------	---------	--------------------	--------	--------	-----------------	-------	----------	-------------	-----

a)	Explain five factors that influence soil productivity.	(10mks)
b)	Outline five factors that a farmer would consider before deciding of	on the type of irrigation in
crop pr	roduction.	(5mks)
c)	Describe five qualities of the mother plant should be considered when	hen selecting
vegetat	tive materials for planting.	(5mks)
28.	a) List seven benefits of using organic mater for mulching.	(7mks)
b)	Describe the field production of Napier grass under the following s	sub- headings
	(i) Planting (3m	ıks)
	(ii) Fertilizer and manure (3m	ks)
	(iii) Utilization (3m	ks)
c)	Describe the procedure followed when transplanting tree seedlings	from a bare root nursery
bed.		(4mks)
29.	a) Explain four agriculture practices which pollute water.	(8mk)
b)	Explain eight factors that determine the spacing of a crop.	(8mks)

State four precautions one should take when harvesting coffee.



c)



TOPMARK 2022 PREDICTION KCSE SERIES 1

NAME	INDEX NO
SCHOOL	SIGN
DATE	

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

443/2

AGRICULTURE

Paper 2

Time: 2 Hours

INSTRUCTIONS TO CANDIDATES

- **1.** Write your name and index number in the spaces provided.
- 2. This paper consists of three sections; A, B and C
- 3. Sign and write the date of examination in the spaces provided above
- **4.** Answer all the questions in sections A and B
- 5. Answer any two questions from section C
- **6.** Answers should be written in the spaces provided.

Section	Questions	Maximum Score	Candidate's score
A	1 – 16	30	
В	17 – 19	20	
С		20	
		20	
		90	





SECTION A

Answer all questions in the space provided.

1.	Name four causes of stress in a flock of layers	(2mks)
•••••	••••••	
• • • • • • • • •	••••••	•••••
2.	State two maintenance practices of a cold chisel	(1mk)
2.	State two maintenance practices of a cold emiser	(11111)
• • • • • • • • •	1 (0) (0)	
• • • • • • • • •		
•		, <>>
2 C.	yangat two fortons that any load to concention failure often of any	ala asyy has been somed
3.30	aggest two factors that can lead to conception failure after a fem	(1mk)
		(IIIK)
•		•••••
4		(4. 1.)
4.	Give two hormones that influence milk let down	(1mk)
• • • • • • • • •		•••••
••••••		•••••
5.	Suggest three factors that make embryo transplant unpopular	with many livestock
Farn	ners	(1 ½ mks)
••••••	••••••	••••••
••••••		•••••
		•••••





	6.	Give four reasons why boran cattle are more suitable for beef producti	on under
	Keny	ya's ranch conditions than exotic beef cattle	(2mks)
•••••	• • • • • • •	•••••••••••••••••••••••••••••••••••••••	•••••
•••••	•••••		•••••
•••••	•••••	••••••••••••••••••••••••••••••••	••••••
•••••	•••••		•••••
	7.	State four factors that may lead to culling in dairy cattle	(2mks)
	, •	state four factors that may feat to cuming in dairy cutte	(211113)
•••••	•••••		•••••
••••	• • • • • • •		•••••
•••••	•••••		
•••••	•••••		/
	0		
	8.	Give functional difference between the following tools	
		a) Cross-cut saw and a rip saw	(2mks)
•••••	•••••	······	•••••
•••••	•••••		
		b) Spirit level and a plumb bob	(2mks)
••••			•••••
••••	• • • • • • •	•••••••••••••••••••••••••••••••••••••••	• • • • • • • • • • • • • • • • • • • •
		c) Give four importance of breeding records	(2mks)
•••••	• • • • • • •	•••••••••••••••••••••••••••••••••••••	•••••
••••	•••••		••••••
••••	•••••	••••••	•••••





9.	Give four control measures of a liver flukes in livestock	(2mks)
••••••		•••••
•••••		
10. farm a	State three factors which influence the variation of the rate of resp nimals	iration in various (1 ½ mk)
••••••		••••••
•••••	X/((<u>X</u> XX),	
•••••		<u>, </u>
11.	List four non-chemical methods of controlling ticks in cattle	(2mks)
•••••••		•••••••••••
•••••		•••••
12.	a) Give two roles of a queen bee in a colony	(1mk)
•••••		
b)	Give two signs of parturition in a doe	(1mk)
• • • • • • • • • • • • • • •		••••••



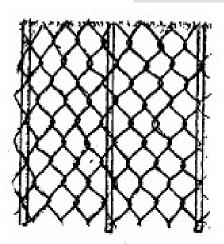


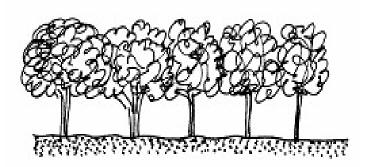
	13. I	Differentiate between a roughage and a concentrate feed in livestock production	on (2mks)
••••	•••••		•••••
••••	•••••		•••••
•••	14.	Give four reasons why dehorning is done in livestock	(2mks)
•••			•••••
••••	•••••		•••••
••••	•••••		• • • • • • • • • • • • • • • • • • • •
	15.	State any four characteristics of the laudrace breed of pigs	(2mks)
••••			
••••	••••••		• • • • • • • • • • • •
••••	•••••		•••••

SECTION B (20 MARKS)

Answer all questions in the space provided.

17. Study the illustration of fences below and answer the questions that follow









a) N	Name the type of fences illustrated above	(2mks)
	X	
	Y	
b)	Name the correct tool used in maintenance of fence Y	(1mk)
c) Sta	ate three advantages that fence Y may have over fence X	(3mks)
••••••		V.
		/
18.	Study the chicken condition illustrated below and answers the questi	ons that follow
	a) Identify the deficiency nutrient responsible for the condition a	bove (1mk)
	b) Give four functions of vitamins in livestock production	(2mks)



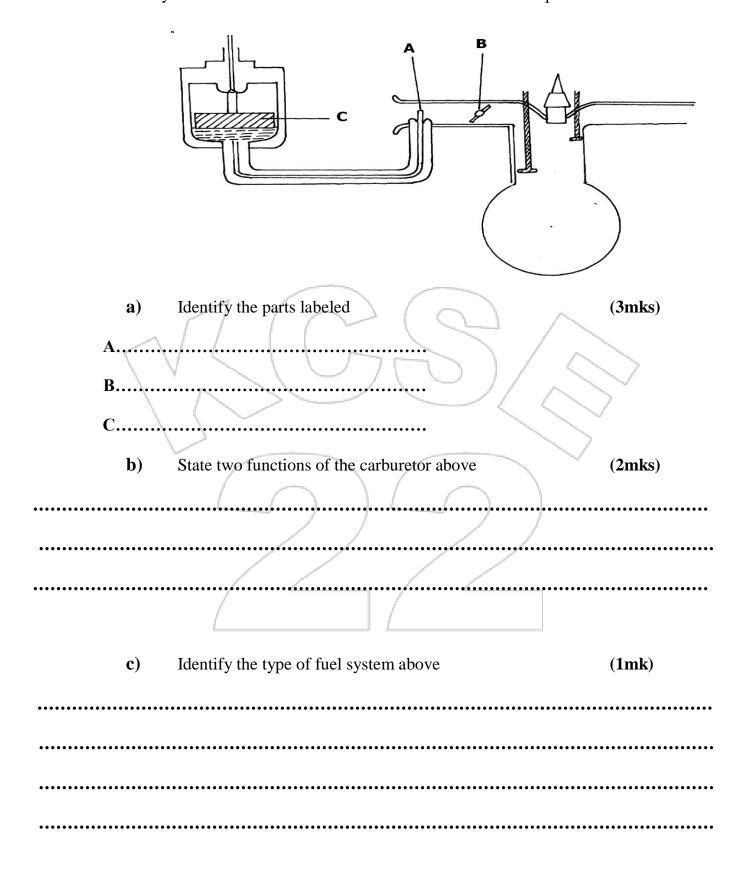


	••••••
19. Below is a diagram representing the reproductive system in poultry. Study answer the questions.	it and
A	
у — В	
× ()	
a) Name the parts labeled (3mks)	
A X	
b) Name two substances added to the egg at section labeled Y	(1mk)
c) How long does it take the egg to stay at section labeled X?	(1mk)
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20. Study the illustration of a carburetor below and answer the questions







SECTION C

Answer Any two questions in this section

21	a) Di	scuss East coast Fever disease under the following sub-headings	
	i) cas	ual organism	(1mk)
	ii)	Symptoms of attack	(5mks)
	iii)	Control measures	(3mks)
	b)	Apart from the disease in (20a) above name other two diseases transr	nitted
		by ticks	(2mks)
	c)	Describe the life cycle of a three host tick	(8mks)
22.	a) Oı	atline the factors to consider when planning for the construction of a po	ultry house
<i>44</i> •	<i>a)</i> O(atime the factors to consider when planning for the construction of a pol	(8mks)
b)	Sta	ate desirable physical characteristics which should be considered when s	selecting a gilt for
		breeding	(8mks
c) Sta	ite the	factors influencing the choice of building materials	(4mks)
23.	a) Sta	ate any four causes of overheating in a water cooled engine	(4mks)
	b) De	escribe the maintenance practices to be carried out in a cooling system of	of a tractor
			(8mks)
	c) Ex	splain the limitations of a tractor power in farm mechanization	(8mks)





TOPMARK 2022 PREDICTION KCSE SERIES 1

NAME	INDEX NO
SCHOOL	SIGN
DATE	

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

565/1

BUSINESS STUDIES

Paper 1

Time: 2 Hours

INSTRUCTIONS TO CANDIDATES

- 1. Write your name and index No. in the spaces provided above.
- 2. Answer all the questions in the spaces provided

FOR EXAMINER'S USE ONLY

Question	1	2	3	4	5	6	7	8	9	10	11	12
marks												

Question	13	14	15	16	17	18	19	20	21	22	23	24	25
<u>marks</u>													



1. State the characteristics of human wants that suit the following statement (4mks)

Statement	Characteristics
a) wants are so many	
compared to resources	
b) Once satisfied some	
wants are left again and again	
c) satisfaction of a given	
want gives rise to another	
e) Everybody needs them in one	
form or another	

2. Yator and Korir have	been trading partners.	ator decided to breakaw	ay from the partnership
and commence his own busing	ness. State four benefits	that he will derive from	the undertaking. (4mks)
			\supset
/			

3. For each of the following accounts title, Indicate whether it is real, nominal or personal (4mks)

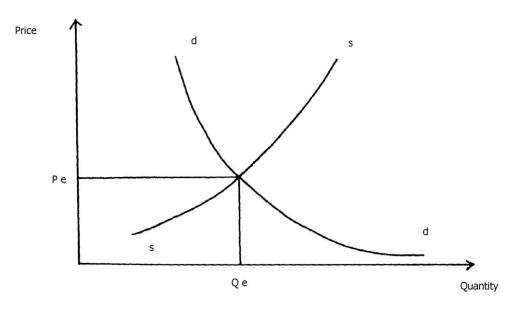
A	ecount title	Account type
a)	Waswa, a debtor	
b)	Commission received	
c)	Bank	
	d)Purchases	





4.	Highlight four reasons why a country would like to know the structure of it's population	ılation
		(4mks)
• • • •	••••••	•••••
••••	••••••	•••••
••••	••••••	•••••
		• • • • • • • • • • • • • • • • • • • •
5.	Identify four circumstances under which communication may be in effective	(4mks)
•••••		•••••
••••		
 6.	Mention five reasons why M-Pesa is becoming a very popular means of payment i	n Kenya
.	iviention rive reasons will the results of payment in	(4mks)
••••		•••••
••••		••••••
••••		•••••
••••		•••••
 7	The following diagram shows demands and supply garge of commodity	•••••

7. The following diagram shows demands and supply carve of commodity.







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Stat	te four things that will happen if the supply of the commodity is increased while dema	and
	remains constant	(4mks)
••••		••••••
••••		• • • • • • • • • • • • • • • • • • • •
••••		• • • • • • • • • • • • •
8.	Highlight four factors that contribute to demand pull inflation	(4mks)
••••		•••••
••••		• • • • • • • • • • •
••••		••••••
••••		••••••
9.	Ukweli enterprises has a working capital of sh.200,000 and a current ratio of 3:1.0	Calculate
(i)	Current assets	(2mks)
••••		••••••
••••		• • • • • • • • • • • • • • • • • • • •
(ii)	Current liabilities	(2mks)
••••		•••••
••••		• • • • • • • • • • • •





10.	Highlight four circumstances under which a manufacturer would prefer to sell his products
direct	ly to consumers instead of middlemen
•••••	••••••••••••••••••••••••••••••••
••••	•••••••••••••••••••••••••••••••••••••••
••••	
•••••	•••••••••••••••••••••••••••••••••••••••
11.	Highlight four uses of national income statistics to any country (4mks)
•••••	•••••••••••••••••••••••••••••••••••••••
••••	
••••	
12.	Outline four measures which the government can take to encourage location of firms in an
area	(4mks)
•••••	
••••	
••••	
••••	

- **13.** On 1.1.09 the cash book of Kimende traders Cash and Bank balances of sh.3,500 and sh.20,000 respectively. The following transactions took place in the month.
 - Jan 6, Cash sales sh.12,500
 - 15, Receives a cheque of sh.45,000 from a debtor after deducting a 10% discount.
 - 31, Paid a creditor sh.28,500 after deducting 5% discount
 - 31, Banked all cash leaving a balance of sh.100 in the cash till

Prepare a three column cash book.

(4mks)





14.	Kenya has been hard hit by H.e.p shortages in the recent past. State four alternative	e energy
source	es which should be promoted to meet the following demand	(4mks)
•••••	(V, (U) (O) (O)	•••••
••••		
•••••		••••••
15.	Outline four circumstances under which a country may engage in trade restriction	(4mks)
••••		
••••		
16.	Outline four demerits of an indirect tax	(4mks)
•••••	•••••••••••••••••••••••••••••••••••••••	•••••
••••	······································	•••••
••••	•••••••••••••••••••••••••••••••••••••••	•••••
••••		•••••





17.	The following assets and liabi	lities belong to Mumbi as at 31.21.08
	Stock	sh. 90,000
	Land	sh. 130,000
	Creditors	sh. 65,000
a)	Calculate capital	(1mk)
b)	In Jan, 2009 stock costing shy	v.30,000 was sold for sh.36,000 cash. Prepare a new balance
	as at 31.1.09.	(3mks)
18.		nder which a trader would use porters to transport goods.
(4mk	is)	
•••••		
••••		,///
••••		
19.		es, identify the motives for holding money (4mks)
	Case	Motives
	a) To meet daily trab) To meet any unforesee	
	circumstances	
	c) To take advantage of f	fall in share
	prices	
	d) To pay for any food re	equirements





20.	Identify four differences between a supermarket and hypermarket	(4mks)
•••••		•••••
••••	••••••	•••••
••••		••••
•••••		
21. 4mks	Give four instances under which an insurance company may find it necessary	ary to re-insure
7 111 I X	5)	
•••••		•••••
••••		•••••
••••		
••••		<u></u>
		7
22.	Highlight four reasons why a development plan is important to a country	(4mks)
•••••		•••••
••••		•••••
••••		
••••		•••••
23.	Tango limited wishes to promotes its products through advertising. Mentic	on any four ethica
ssues	s it must consider before engaging in advertising (4mks)	
•••••	•••••••••••••••••••••••••••••••	•••••
••••	••••••	•••••
••••		••••





24.	State four uses of business plan	(4mks)
•••••		•••••
•••••	•••••••••••••••••••••••••••••••••••••••	•••••
•••••		••••
25. (4mks	Highlight four ways in which HIV and AIDS has adversely affected business	ss operations
•••••		
•••••		\supset
••••		?
•••••		•••••
•••••		•••••





TOPMARK 2022 PREDICTION KCSE SERIES 1

NAME	•••••	• • • • • • • • • • • • •	•••••	INI	DEX N	O	•••••
SCHOOLSIGN							
DATE							
Kenya Certificate of Secondary Education (K.C.S.E)							
BUSINESS STUDIES Paper 2 Time: 2 Hours INSTRUCTIONS TO CANDIDATES 1. Answer any five questions 2. Write your answer in the answer sheet provided							
3. All questions carry equal marks							
For examiner's use only							
<u>OUESTION</u>	1	2	<u>3</u>		<u>4</u>	<u>5</u>	<u>6</u>
<u>SCORE</u>							
					<u> </u>	TOTAL	





OUESTIONS

- 1. (a) Explain five ways by which business owner may ensure a condusive environment for this business (10mks)
- Explain **five** ways by which the central bank may reduce the amount of money in circulation **(b)** (10mks) in Kenya
- 2. Karemi owns a bakery in Kitale town. Explain **five** ways why he carried out division (a) of labour in the process of baking bread in his factory. (10mks)
- Describe **five** measures by which the Kenyan government can take to improve on its balance **(b)** of its payment position (10mks)
- Explain four characteristics of an underdeveloped economy. **3.** (8mks) (a)
- The following trial balance belongs to Kipevu trades as at 30th June, 2004 **(b)**

KIPEVU TRADERS Trial balance as at30th June 2004

That balance as acover ounce 2007					
	Dr	(shs)	Cr	(shs)	
Stock on 30/6/03	40,000				
Capital			162,300		
Purchase and sales	35,000		70,000		
Drawings	6,000				
Furniture and fittings	20,000				
Motor vehicles	150,000		12,000		
Debtor and creditors	8,000		4,800		
Returns	2,000		800		
Discount	900				
Wages and salaries	15,000				
Rent	3,500				
Insurance	2,100				
Commission	400				
Bank			3,000		
cash	6,000				
	252,900		252,900g		





REQUIRED	RE()UI	RED
----------	-----	-----	-----

(i)	Prepare a trading profit and loss account	
(ii)	Prepare a balance sheet as at 30 th June 2004	(12mks)
4.	(a) Jilo company wishes to have its goods distributed all over the country. Ad	vise the
compa	any on five factors it may consider before choosing the distribution channels	(10mks)
(b)	Kamwaru private company recently joined the Nairobi stock Exchange. Describe	five
benefi	its of such a decision	(10mks)
5.	(a) Explain five factors that may have contributes to the slow pace in the achievable (a)	evement of
the Ea	ast Africa community	(10mks)
(b)	Wako Limited operators as a monopolist. Explain five factors that may have mad	le the firm
acquir	re monopoly power.	(10mks)
6.	(a) Discuss five circumstances under which an insurance contract may be term	ninated
(b)	Explain five problems that consumers may encounter as they try to satisfy their w	(10mks) vants
		(10mks)





TOPMARK 2022 PREDICTION KCSE SERIES 1

NAME	INDEX NO
SCHOOL	SIGN
DATE	

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

313/1

CHRISTIAN RELIGIOUS EDUCATION

Paper 1

2½ Hours

INSTRUCTIONS TO CANDIDATES.

- 1. This paper consists of six questions.
- **2.** Answer any five questions in the answer booklet provided.
- **3.** Candidates should check the question paper to ascertain as indicated and that no questions are missing.

Question	1	2	3	4	5	6
Marks						





QUESTIONS

VELETIOINE	
1. a) State Seven literacy forms used in the writing of the Bible	(7mks)
b) Name <u>Eight</u> Historical books in the Old Testament	(8mks)
c) With reference to the Genesis stories of creation in Chapter 1 and 2, outline the attribu	ites of God
	(5mks)
2. a) Outline <u>Six</u> Abraham's act of faith in God.	(7mks)
b) Give Four differences between the Jewish circumcision practice and the traditional	.1
African circumcision.	(8mks)
c) Explain ways in which the Israelites worshipped God in the wilderness	(5mks)
3. a) State Seven reasons against Kingship in Israel	(6mks)
b) Outline <u>Seven</u> achievements of Kin Solomon	(7mks)
c) State lessons Christians can learn from the work of Prophet Elijah	(6mks)
1 a) State the similarities between the traditional African much at and the Old	
4. a) State the similarities between the traditional African prophets and the Old	(7l-a)
Testament Prophets	(7mks)
b) Outline the characteristics of Amos' message of judgment to Christians	(6mks)
c) Explain the teachings of prophet Amos about the day of the Lord.	(7mks)
5. a) Explain the evils Jeremiah condemned in his Temple sermon	(8mks)
b) Explain Four of Jeremiah symbolic acts related to Hope and restoration.	(8mks)
c) What lessons do Christians learn from the experiences of Nehemiah	(5mks)
6. a) Outline the importance of Kinship system in Traditional African Society	(7mks)
b) State the responsibilities of the living to the ancestors in the African Traditional co	,
	(8mks)
c) Explain <u>Five</u> roles of elders in the traditional African Communities	(5mks)





TOPMARK 2022 PREDICTION KCSE SERIES 1

NAME	INDEX NO
SCHOOL	SIGN
DATE	

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

313/2

CHRISTIAN RELIGIOUS EDUCATION

Paper 2

2 ½ Hours

INSTRUCTIONS TO CANDIDATES.

- 1. This paper consists of six questions.
- 2. Answer any Five questions in the answer sheets provided.
- **3.** Candidates should check the question paper to ascertain as indicated and that no questions are missing.

Question	1	2	3	4	5	6
Marks						





Answer any Five questions in the answer sheets provided.

1.	a)	State the message of Angel Gabriel to Zachariah during the annuncia	ation of the
	birth o	f John the Baptist.	(8mks)
	b) the Ba	Give Five similarities between the annunciation of the birth of Jesus ptist	and John (5mks)
	c)	How do Christians prepare for the coming of the messiah.	(7mks)
2.	a)	State Seven teachings of John the Baptist about the messiah.	(7mks)
	b)	Describe the call of the first disciple in Luke $5:1-11$	(7mks)
	c)	Identity methods used by Jesus to spread the Good news.	(6mks)
3.	a) \	State the teaching of Jesus on eschatology. Luke $2:5-38$.	(8mks)
	b)	Outline Five evidence to the resurrection of Jesus.	(5mks)
	c)	Explain the importance of the Lords Supper to the Christian today.	(7mks)
4.	a)	Describe the unity of believers as a Bride.	(7mks)
	b)	Identify the elements of the fruits of the Holy Spirit.	(6mks)
	c)	Explain the causes of disunity in the church today.	(7mks)
5.	a)	Explain Six Christian teaching on human sexuality.	(6mks)
	b)	State reasons why Christians work.	(7mks)
	c)	Explain cause of child labour in Kenya today.	(7mks)
6.	a)	Explain Jesus teaching on wealth	(7mks)
	b)	State Seven rights of employers.	(7mks)
	c)	Outline ways in which leisure is misused in the society today	(6mks)



TOPMARK 2022 PREDICTION KCSE SERIES 1

NAME	INDEX NO
SCHOOL	SIGN
DATE	

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

311/1

HISTORY AND GOVERNMENT

PAPER 1

TIME: 2½ HOURS

Instructions to candidates

- (a) Write your name, index number and the name of your school in the spaces provided above.
- (b) Sign and write the date of examination in the spaces provided above.
- (c) This paper consists of THREE sections A, B and C
- (d) Answer ALL questions in section A (25 marks)
- (e) Answer any THREE questions in section B (45 marks)
- (f) Answer any TWO questions in section C (30 marks)

FOR EXAMINER'S USE ONLY

SECTION	MAXIMUM SCORE	CANDIDATE'S SCORE
A	25	
В	45	
С	30	
TOTAL SCORE	100	





SECTION A

Answer ALL questions in this section

Identify the main pre-historic site in western Kenya (1mk)Identify two reasons for the migration of the Eastern Cushites into Kenya (2mks)Give the **two** socio-economic sub divisions of the Maasai community in pre-colonial Kenya (2mks) State **two** factors which facilitated the coming of the early visitors to the Kenyan coast (2mks)Give **one** reason which led to the decline of Gedi during the 15th1 century (1mk)State the **main** reason why Arabs were hated by the people of the interior parts of Kenya (1mk) Give **two** provisions of the Anglo-German treaty of 1886 (2mks)8. Give two reasons why Imperial British East African Company (IBEACO.) failed to administer the British East Africa Protectorate (2mks)9. State one problem faced by the independent churches and schools during the colonial period (1mk) **10.** Identify any **two** characteristics of early political movements formed in Kenya before 1939 (2mks) 11. Who represented Central Kenya in the legislative council in 1957 elections? (1mk)**12.** State **two** roles played by women in the struggle for independence in Kenya (2mks)13. Identify one way through which Islam was spread in Kenya (1mk) **14.** Give **one** non military function of the Kenyan armed forces (1mk)15. Identify the parliamentary committee that deals with the constitutional affairs in Kenya (1mk) **16.** Name **two** ex-officio members of the Local Authorities (2mks)17. State the main reason for post election violence in Kenya by the end of 2007 (1mk)

SECTION B (30MARKS) Attempt ANY THREE questions

18. a) Identify five impacts of the migration and settlement of the highland Bantus into Kenya (5mks)
b) Describe the political organization of the mijikenda in the pre-colonial Kenya (10mks)





19. a) Give **five** reasons why Seyyid Said transferred his capital from Muscat in Oman to Zanzibar in 1840 (5mks)

- b) Describe **five** ways through which Seyyid Said encouraged the development of Plantation

 Agriculture (10mks)
- **20.** a) Give **five** reasons for British occupation of Kenya in the 19th century (5mks)
- b) Explain **five** results of the Agikuyu mixed reaction to the British invasion of Kenya (10mks)
- 21. a) Outline the pillars of Nyayoism (3mks)
- b) Describe six ways in which the spirit of Nyayoism has promoted development in Kenya (12mks)

SECTION C (30MARKS)

Attempt ANY TWO questions

- 22. (a) Identify **five** ways in which education promotes national unity in Kenya (5mks)
- (b) What is the **importance** of national integration to the people of Kenya? (10mks)
- 23. a) Give three characteristics of human rights (3mks)
- (b) Explain six reasons why respect for human rights is important (12mks)
- 24 a) Identify **five** challenges the government faces in its efforts to raise the government revenue (5mks)
 - b) Explain **five** reasons why the government of Kenya normally prepares a National Budget (10mks)





TOPMARK 2022 PREDICTION KCSE SERIES 1

NAME	INDEX NO
SCHOOL	SIGN
DATE	

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

311/2

HISTORY AND GOVERNMENT

PAPER 2

TIME: 2 ½ HOURS

INSTRUCTIONS TO THE CANDIDATES

- This paper consists of three sections A, B, and C.
- Answer all questions in section A, three in section B and two in section C.
- All answers must be written in the answer booklet provided

FOR EXAMINERS' USE ONLY

SECTION	SECTION	SECTION					SECTIO	ON	TOTAL
		В				C			
QUESTIONS	1-17	18	19	20	21	22	23	24	
SCORE									





SECTION A. (25 MARKS)

Answer <u>ALL</u> questions from this section.

1. Name the earliest form of art by early man.	(1 mk)
2. State the contribution of iron-working to the rise of kingdoms in the pre-colonial period	(2mks)
3. Name two fighting tactics adopted by Samori Toure during the Franco-Madinka war	(2mks)
4. Identify the first Senegalese to participate in the French chamber of deputies during the p	re- colonial
period.	(1 mk)
5. State two functions of the ancient city of Athens	(2mks)
6. Define Pan-Africanism.	(lmk)
7. State one way in which France was affected by the Franco-Prussian war of 18718. State one way through which the Europeans maintained peace among themselves during	(1mk)
partition of Africa. 9. Name two permanent members of the security council of the United Nations.	(1 mk)
10. Identify any two types of government.	(2mks) (2mks)
11. State two demands of the Austrian government towards Bosnia after the assassina	tion of
Franz Ferdinand.	(2mks)
12. Mention two factors that make the camel a good pack animal.	(2mks)
13. State the main objective of the Marshall plan after the second world war	(1mk)
14. Name the body in-charge of election in the United States of America.	(1mk)
State two pillars of the two pyramid policy as used in Southern Rhodesia during	the colonial
period.	(2mks)
16. Apart from Nelson Mandela name any two South African nationalists who were	jailed in the
Rivonia Trial of 1964	(2mks)





SECTION B. (45 MARKS)

Answer ANY THREE questions from this section in the answer booklet provided.

- 17. a). State **FIVE** reasons behind the success of early Egyptian agriculture. (5mks)
 - b). Explain **FIVE** ways archeologists and paleontologists discover a historical site. (10mks)
- 18. a). Mention **THREE** impact of industrial revolution on urbanization. (3mks)
- b). Explain the social and economic factors that led to the decline of Tran-Saharan trade by the end of I 5th century (12mks)
- 19. a). Give **THREE** limitation of using cell phones (3mks)
- b). Explain SIX social effects of Tele communication today. (12mks)
- 20. a). State **THREE** reasons that made the Lozi to collaborate with the British.

(3mks)

b). Explain **SIX** reforms made by the German's administration after the Majimaji rebellion in the Southern Tanganyika. (12mks)

SECTION C

(30 MARKS)

Answer ANY TWO questions from this section

- 21. a). Give <u>FIVE</u> factors that led to the growth of Asante kingdom during the pre-colonial period. (5mks)
 - b). Describe the social organization of the Asante during the pie-colonial period. (10mks)
- 22. a). State <u>THREE</u> reasons for the collapse of the league of nations (3mks)
 - b). Explain **SIX** political results of the Second World War. (12mks)
- 23. a). State <u>FIVE</u> importance of Federal government in the United States of America.(5 mks)
 - b). Explain <u>FIVE</u> political challenges facing the democratic republic of Congo since independence. (10mks)





TOPMARK 2022 PREDICTION KCSE SERIES 1

NAME	INDEX NO
SCHOOL	SIGN
DATE	

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

312/1

GEOGRAPHY

PAPER 1

TIME: 2¾ HOURS

Kenya Certificate of Secondary Education

INSTRUCTIONS TO CANDIDATES

- a) This paper has two sections: A and B.
- b) Answer <u>all</u> the questions in section A.
- c) Answer question 6 and any other <u>two</u> questions from Section B.
- *d)* Each question in section B must be answered in separate foolscaps.
- e) Candidates should check the question paper to ascertain that all pages are printed as indicated and that no questions are missing.

QUESTIO N	A	6	7	8	9	1 0	TOTA L
MARKS							





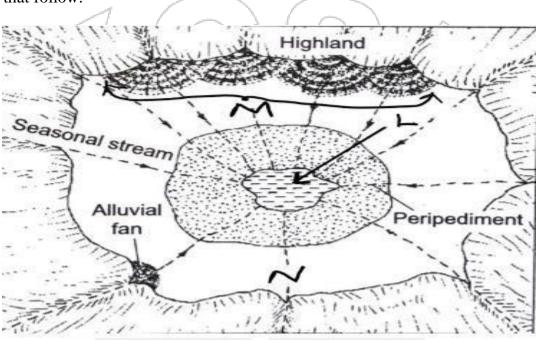
SECTION A

Answer all the questions in this section.

- 1. Explain two relationships between geography and physics (4mks)
- 2. a) What is the difference between a meteor and meteorite (2mks)
 - b) State four effects of the rotation of light on its own axis (4mks)

3.

- a) What is atmospheric pressure (2mks)
- b) Identify three factors that influence atmospheric pressure on the surface of the earth (3mks)
- **4.** The diagram below shows some features found in a desert landscape. Use it to answer the questions that follow.



- a) Identify the landscape shown in the diagram (2mks)
- b) Name the features marked L M and N (3mks)

5.

- a) Name two types of ice masses found on mountains in east Africa (2mks)
- b) State three distinct characteristics of pyramidal peaks (3mks)





SECTION B (75mks)

Any question 6 and ANY OTHER TWO questions in this section)

6. Study the Map of Nyeri 1:50000(sheet120/4) provided and answer q	uestions that follow; a)
i) What is the Map tittle	(1mk)
ii) Give the longitudinal extent of the area covered by the map.	(2mks)
iii) Give the index to adjoining sheet to the North West of the area co	overed by the Map
	(1mk)
iv) Identify two provinces that are covered by the area shown by the	Map (2mks)
b) i) Calculate the area of Aberdare forest from Northing 52 S	Southwards and west of
Easting 55.	(2mks)
ii) Name the human features found in grid square 6660	(3mks)
c) i) Using a vertical scale of 1cm represents 40cm,draw a cross-section	on along northing 60 and
easting 64 to 70	(3mks)
On it mark and label the following;	(4mks)
• River)
National park boundary	/
Dry weather road	
• A pipeline	
ii) Calculate the vertical exaggeration	(2mks)
d) Describe the relief of the area covered by the Map	(5mks
7a)	
i) What is a rock?	(2mks)
ii) State any three characteristics of minerals	(3mks)
b) Explain three classification of mechanically formed sedimentar	y rocks and to each
give an example.	(6mks)





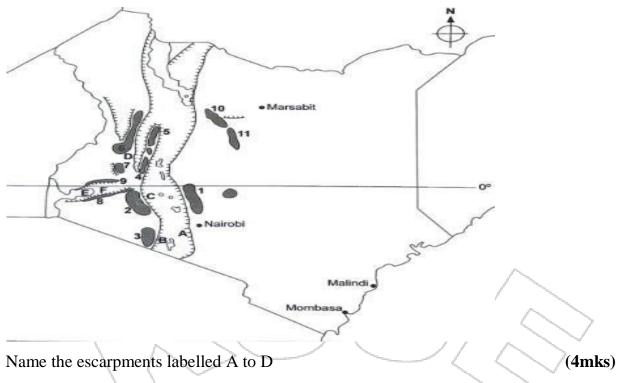
Ci)	State two changes that occur in the sedimentary rocks when they are subject	ted to intense
heat a	and pressure.	(3mks)
ii)	Outline any three differences between plutonic and volcanic rocks	(3mks)
d)	Name the type of rocks which results from metamorphism of;	
i. Gra	anite (1mk)	
ii. C	lay (1mk)	
e)	The diagram below shows the occurrence of petroleum in the earth's use it to	answer the
	i) Name the substances in the areas labelled L, M and N ii) Give three by products obtained when crude oil is refined	(3mks) (3mks)
8) a)		
i)	What are faults?	(2mks)
ii)	Identify any three major faulted areas of the world	(3mks)
b)		
i)	other than the reverse fault, name two other types of faults	(2mks)
ii)	With the aid of a well labelled diagram, describe how a reverse fault is formed	ed. (5mks)





c)

i) Use the map of Kenya below to answer the following questions;



- ii) Apart from the rift valley, identify any other 3 features resulting from faulting (3mks)
 - d) Explain three ways in which faulting can influence drainage (6mks)

9) a)

i) Distinguish between an ocean and a sea

(2mks)

ii) State four sources of ocean salinity

- (4mks)
- c) with well labelled diagrams, explain how the following wave erosional features are formed (10mks)
- i) Cliff
- ii) Geo
- d) You are planning to carry out a field study on the depositional features along the coast of Kenya
- i) Give three types of submerged highland coasts you identified (3mks)
- ii) State three objectives you would formulate for the study (3mks)
- iii) Give three methods you would use to record the information collected (3mks)



10) The map below shows the location of some mountain ranges.



a) Name the ranges marked P, Q, R, S

(4mks)

b)

i) Apart from fold mountains, name two other features resulting from folding

(2mks)

ii) Explain how the following theories led to the formation of fold mountains

a. Contraction theory

(3mks)

b.The convectional current theory

(3mks)

c) Explain four **negative** effects of fold mountains on human activities

(8mks)

d) Students are planning to carry out a field study on landforms

i) State three ways in which the students would prepare themselves for the study.

(3mks)

ii) Name two follow up activities they conducted after the **study**

(2mks)





TOPMARK 2022 PREDICTION KCSE SERIES 1

NAME	INDEX NO
SCHOOL	SIGN
DATE	

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

312/2

GEOGRAPHY

Paper 2

Time: 2 ¾ Hours

INSTRUCTIONS TO CANDIDATES

FOR EXAMINER'S USE ONLY

SECTION	QUESTION	MAXIMUM	CANDIDATE'S
		MARKS	SCORE
A	1 – 5	25	
В	6-10	75	
Total Score		100	





a) This paper has \underline{two} sections. \underline{A} and \underline{B} .

b) Answer <u>ALL</u> the questions in section A. In section B answer question <u>6</u> and <u>any</u> other <u>two</u> questions.

c)<u>All</u> answers <u>must</u> be written in the booklet provided.

SECTION A (25 marks)

Answer <u>ALL</u> the question in this section

1. (a) Give <u>three</u> reasons why road transport is used more than air transport in East Africa.

(3marks)

(b) In what **two** ways does Kenya benefit from air links with the rest of the world

(2marks)

(a) Name **two** conditions that are necessary for the formation of petroleum

(2marks)

(b) List **three** ways in which open-cast mining effects the environment

(3marks)

2. (a) State **two** human activities that may lead to soil erosion

(2marks)

- (b) Give <u>three</u> reasons why it is necessary for Kenya to conserve her environment (3marks)
- **3.** (a) State <u>three</u> conditions necessary for the growing of Cocoa.

(3marks)

(b) Give **three** economic problems experienced in Cocoa farming in Ghana.

(3marks)

4. (a) What is urbanization?

(1mark)

(b) State <u>three</u> factors which have led to the development of Mombasa as a major sea port in the region (3marks)

SECTION B

Answer question 6 and ANY other TWO questions from this section

6. The table below shows horticultural crops production in Kenya in the Year 2021

Сгор	Quantity in Tonnes
Flowers	52,500
Oranges	32,600
Tomatoes Carrots	30,300
	25,400





(a)	(i) Draw a divided rectangle 15cm long to represent horticultural crop	production in
	Kenya in the year 2021 using the data above.	(8marks)
(ii) Calcu	ulate the range of the above data.	(2marks)
(iii)What	t is the percentage of the horticultural crop with the highest tonnage?	(3marks)
(b)	(i) State <u>three</u> advantages of using divided rectangles to represent geo	ographical data
		(3mks)
	(ii) State <u>two</u> disadvantages of using a divided rectangle	(2marks)
(c)	(i) Explain <u>four</u> problems facing horticultural farming in Kenya	(8marks)
	1000	
7. (a)	Name four sources of electric power other than water	(4marks)
(b) List <u>f</u>	five factors that favour the location of a Hydro-electric power plant.	(5marks)
(c) Expla	ain <u>five</u> ways in which Kenya has benefited from the development of the	e seven forks
	hydroelectric power scheme.	(10marks)
(d) Expla	ain three problems Kenya experiences as a result of over-dependence or	n petroleum
		(6mks)
8. (a)	(i) What is Industrialization?	(1mark)
	(ii) Name a town in Kenya where each of the following Industries are	located
- Oil re	efining /	(1mark)
- Paper	r manufacturing	(1mark)
- Moto	or vehicle assembly	(1mark)
(b) Expla	ain five factors which influence the location of iron and steel industry in	the Ruhr region
of Germa	any	(10marks)
(c) (i)	Other than iron and steel, name three industries located in the Ruhr re	egion of
Germany	y.	(3 marks)
(ii) Expla	ain four ways in which Kenya has benefited by assembling Motor vehic	le locally
		(8marks)





9. (a) (i) Define International trade	(2marks)
(ii) Name three major imports from Europe to Kenya	(3marks)
(b) State four factors that influence external trade in Kenya.	(4marks)
(c) Explain four ways through which Kenya will benefit from the renewed East Afrioperation.	ca Co- (8marks)
(d) Explain four negative effects of international trade.	(8marks)
10. (a) Explain what is meant by overpopulation	(2 marks)
(b) How does Kenya's population differ from that of Sweden	(4 marks)
(c) Explain <u>four</u> factors that influence population distribution in Kenya	(8 marks)
(d) (i) Apart from rural-rural migration, list three other types of migration in Ken	nya
	(3marks)
(ii) Explain <u>four</u> causes of rural-rural migration in Kenya	(8 marks)





TOPMARK 2022 PREDICTION KCSE SERIES 1

NAME	INDEX NO
SCHOOL	SIGN
DATE	

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

101/1

ENGLISH

Paper 1

(Functional Skills)

Time: 2 Hours

INSTRUCTIONS TO CANDIDATES

- **1.** Answer all questions in this question paper.
- 2. All your answers must be written in the spaces provided in this question paper.
- **3.** Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

FOR EXAMINER'S USE ONLY

QUESTION	MAXIMUM MARKS	CANDIDATE'S SCORE
1	20	
2	10	
3	30	
	Total Score	





1. Functional skills (20mks)

The Independent Electoral and Boundaries commission (IEBC) has advertised for recruitment of qualified people who would like to become Registration clerks during the 2022 Repeat Elections and by-elections. You did your Kenya Certificate of Secondary Education (K.C.S.E) in 2022 and you are interested in the vacancies.

(a) V	Vrite an applic	cation letter	r in response	to the above	e advertise	ement.		(10mks)
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(b) Attach your comprehensive and appropriate curriculum vitae (C.V) to accompany your application letter for the recruitment (10Mks) ©2022 The Kenya National Examinations Council









2. Close Test (10mks)

	sage below and fill in the blanks with i	the most appropriate	word.	
_	epresents a wide range of			luding
distance educ	cation(2) training, web	-based training, inter	net –based	(3)
	delivery and on-line learning and	_		
integration of	f(5), instructor - led,a	nd real time training	in	
human	(6) and environmen	nt. Knowledge will no	o longer need to be	
	(7) from the shelf of the training) 	(8),brushed	off the
folded dog –	ears(9)			
and reviev	ved E-learning is immediate and provide	es up-to – date		(10)
A	SKILLS (30 MKS) In the following sentences, the speaker replacing the underlined words and exp	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
	the intended meaning.		(5	(mks)
(ii)	orry to say, Sir Anthony, that my affluorry to say, Sir Anthony, Sir A	ence over my niece is	s very small.	
(iii) 	You have <u>hissed</u> all my <u>mystery</u> lesson	ıs.		
(iv)	He is the very <u>pineapple</u> of eloquence.			





(v)She loves to pedal gently round on a well – boiled icicle

В	Supp	oly homophones to the following words.	(5mks)
	(i)	Maize	
	(ii)	Symbol	
	(iii)	Wretch	
	(iv)	Fowl	
	(v)	But	
	(vi)	Isle	
	(vii)	Ail	
(ix)	Med	Beer al	
(x)	Prop	het	
C	I had	ANDRE d a dream last night, I dreamed	(6mks)
	\ \	I to pick a mother out.	
		choose a father too.	
	At first	, I wondered what to do,	
Sho		re were so many there, it seemed, all and thin and stout.	
2110		t before I sprang awake,	
	I knew	what parents I would take.	
	And thi	s surprised and made me glad:	
	They w	ere the ones I always had!	
	Describe	e the rhyme scheme of the above poem.	(2mks)
••••	•••••	•••••••••••••••••••••••••••••••••••••••	•••••





	What makes the above poem easy to remember?	(2mks)
,	Which words will you stress in line 7, and why?	(2mks)
•		
••••	Mary applied for a secretarial job advertised in one of the local danewspapers and was short listed for an interview. How is she expected the during the interview?	•
E	The underlined words in the following sentences are spoken with emphasis. Ex difference in meaning brought about by this. (i) Naomi Wanjiku won the London marathon.	(3mks)
(ii)	Naomi Wanjiku won the London <u>marathon</u> .	





(iii)	Naomi Wanjiku won the London marathon	
••••		•••••
•••••		••••••
F	Underline the silent letters in the following words	(2mks)
(i)	Mortgage	
(ii)	Paradigm	
(iii)	Phlegm	
(iv)	Comb	
G	Below is a telephone conversation between friends. Fill in the missing parts	(3mks)
	Lucy: Hello, may I talk to Judy please?	
Judy	y (\ (\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	
••••	Lucyu Oh, how one wou? How hove hear?	
	Lucy: Oh, how are you? How have been?	
Judy	y:	•••
Luc	y: I am very sorry ,when was the accident?	
Judy	y:	•••
	Lucy: Good to hear that your injuries were not too serious. You will pull through.	
Judy	y: Thank you.	





TOPMARK 2022 PREDICTION KCSE SERIES 1

NAME	INDEX NO
SCHOOL	SIGN
DATE	

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

101/1

ENGLISH

(Comprehension, Literary appreciation and Grammar)

TIME: 2 HOURS

INSTRUCTIONS TO CANDIDATES:-

- a) Write your Name, Admission number and Class in the spaces provided above.
- **b)** Sign and write the date of examination in the spaces provided above.
- c) Answer all questions in this question paper.

For Examiner's Use Only:

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1	20	
2	10	
3	30	
TOTAL SCORE	60	





QUESTION 1: COMPREHENSION.

(20MKS)

Read the following passage and then answer the questions that follow.

The question is at least as old as Socrates: If we know what the right thing to do is, why do we not do it? It is an especially acute question when applied to global warming. The science showing that carbon dioxide emissions are already changing the planet's climate, and are likely to have severe effects (melting ice caps, sea-level rise, and species extinction), is compelling and now barely disputed. Almost 90% of Europeans say they recognize climate change as a major issue, and 75% identify fossil fuel emissions as a major cause.

And yet, as was widely discussed at a conference of environmentalists, geologists and writers in May 2006 in Ankelohe, Germany, public understanding has not translated into even the simplest of public actions. Less than 1% of Britons, for example, have switched their home electricity to renewable sources, even though it requires little more than a phone call to one's existing provider. Proportions on the continent are slightly higher, but there is clearly no rush to **go green** or — shudder — stop driving cars.

Why such a disconnect between information and action? Part of the problem is that environmental advocates emit mixed messages. In mid-May 2006, Britain's Guardian published a front-page story showing that five companies in Britain produce more CO₂ pollution in a year than all the country's motorists combined. That is a strong argument for targeting industries, but the average reader could hardly be blamed for thinking, "Why should I bother to cut down my driving?"

Similarly, not enough thought has been devoted to the best role for government. Climate change is too vast a problem for individuals to solve alone, and some big businesses have an incentive not to solve it. That leaves government to take the lead, which is tricky, because over-reliance on government can allow individuals to

fob off their own responsibilities. What is worse, government power seems to tickle autocratic fantasies. In my experience, environmentalists spend far too much energy advocating hard-line government 'solutions' that do not stand a chance of being enacted. Sure, it might be good for the planet if governments banned the use of sports-utility vehicles or, for that matter, of all fossil fuels. Yet not only is it hard to sell outright prohibitions to voters, but the sad truth is that governments have a woeful record in even the mildest interventions. One of the most

Significant innovations in the last decade has been Europe's carbon-emission trading scheme: some 12 000 companies, responsible for more than half of the EU's emissions, have been



assigned quotas. Companies with unused allowances can sell them; the higher the price, the greater the incentive for firms to cut their use of fossil fuels. The system seemed to work for about a year — but now it turns out that Europe's governments allocated far too many credits, which will likely hinder the program's effectiveness for years.

Perhaps the real reason that well-intentioned consumers do not change is that they do not see any benefit. Climate change may be a frightening, irreversible **calamity**, but its worst effects will not be felt next week or next year. The planet looks the same regardless of whether we use environmentally friendly technology or we do not care how much CO_2 we emit. But sure as the sun rises and sets every day, if we do not cut down on carbon emissions, then we may not have a planet to hand over to the next generation.

(Adapted from Times, June 5, 2006)

a) According to the passage, what are the effects of global warming? (4 marks)	
	••••
	•
b) What, according to the passage, is the main cause of global warming? (3 marks)	
	• • • •
	• • • •
	• • • •
c) How does Britain encourage people to use renewable electricity? (3 marks)	••••
•••••••••••••••••••••••••••••••••••••••	••••





\mathbf{d})Paraphrase th	ne following sentence: That is a strong a	rgument for targeting industries,
b	ut the average	reader could hardly be blamed for think	ing, 'Why should I bother to
cı	ut down my di	riving?'	(4 marks)
•••••	•••••		
•••••	•••••		•••••
•••••			
•••••	•••••••	•••••••••••••••••••••••••••••••	••••••••••••••
e)	What messag	e does the writer communicate in this pa	ssage? (2 marks)
• • • • • • • •	\		// ^/ >
	Explain the narks) fob off incentive calamity go-green	neaning of the following words and exp	ression as used in the passage.(4
` '			

2. Read the following excerpt and answer the questions that follow

"Yes, Papaai," Resian said **apprehensively**. "I am here. Taiyo tells me you are calling me?"

- "Yes, yes," her father replied. "Please take a seat."
- "Yes, Papaai," Resian repeated as she sat on a chair far away from her father.
- "Come nearer...child," her father said pleasantly.
- "Why do you sit a mile away? Come nearer."

Resian moved her chair hardly an inch from where it was and then she looked up into her father's face with eager expectation.



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"If I do remember well," her father began in a low even tone, "you will be nineteen in September this year, am I right"

"You are quite right, *Papaai*." Resian answered eyeing him curiously. His face was unusually kind. His eyes held hers as he smiled broadly. That's it!' she thought triumphantly. "That must be it!

"You and I have not discussed important issues for a long time," he said with a friendly chuckle that was intended to bring her closer to him. "I thought today would be the best day to break the news. Your future is very important to me, my dear child."

Resian thought the concern in her father's voice, rang false. She hesitated, but could not **hold herself** any more. The anxiety was too great.

"Papaai, is it Yeiyo or Taiyo who spoke to you?" she asked sensationally, thinking she was stating the obvious. But seeing her father's face cloud, she added quickly.

"Who between them spoke to you about our enrolment at the Egerton University?"

"What are you talking about, child? Her father, who seemed dumbfounded, asked after a long and uncomfortable silence.

"Both Yeiyo and Taiyo promised to talk to you about it, and I thought she had." "What, in the name of God are you talking about, child?" he repeated, this time **agitated** and shaking his head vigorously. "No, I have never spoken to anybody about any of you enrolling at the university. Never! When I said I wanted us to discuss your future, that isn't what I meant at all. Of course not!"Resian looked at her father's face enquiringly.

1.	What has happer	ned before the excerp	t!?	(3mks)
•••••				
		/	1/	
•••••			J	
2.	What is so ironic novel.	cal in this passage?	Explain your answer ref	erring to elsewhere in the (3mks)
			••••	





KCSE Predictions Marking Schemes - 0746 222 000 3. "Your future is very important to me, my dear child" From elsewhere in the novel, explain why Ole Kaelo tells his daughter so. (3Mks)**4.** Discuss two aspects of character in Resian in this excerpt. **(4Mks) 5.** What major issue is addressed in this excerpt? (2Mks)

	Explain what happens after this excerpt.	(3Mks)
••••		,

7. "Who between them spoke to you about our enrolment at the Egertonuniversity?" Rewrite in the indirect speech. (1Mk)





KCSE Predictions Marking Schemes - 0746 222 000 **8.** A part from irony, discuss any other aspect of style evident in the excerpt. 9. Explain the meaning of the following words and expressions used in the excerpt.(4 Mks) (i). Apprehensively (ii). Sit a mile away (iii). Hold herself (iv). Agitated

QUESTION 3: LITERARY APPRECIATED.

(20MKS)

03. Read the poem below and then answer the questions that follow.

No coffin, no grave by fared Angira

He was buried without a coffin
Without a grave
The scavengers performed the post-mortem
In the open mortuary
Without sterilized knives
In front of the night club





Stuttering rifles put up
The gun salute of the day
That was a state burial anyway
The car knelt
The red plate wept, wrapped itself in blood its
Master's

The diary revealed to the sea
The rain anchored there at last
Isn't our flag red, black and white?
So he wrapped himself well

Who could signal yellow

When we had to leave politics to the experts

And brood on books

Brood on hunger

And schoolgirls

Grumble under the black pot

Sleep under torn mosquito net

And let lice lick our intestines

The lord of the bar, money speaks madam

Woman magnet, money speaks madam

We only cover the stinking darkness of the cave of our mouths

And ask our father who is in hell to judge him

The quick and the good.

Well, his diary, submarine of the Third World

War

Showed he wished

To be buried in a gold-laden coffin Like a VIP

under the jacaranda tree beside his palace A shelter for his grave And much beer for the funeral party

Anyway one noisy pupil suggested we bring Tractors and plough the land.

(From Poems from East Africa, D. Cook and D. Rubadiri (Eds,): East African Educational Publishers)



(a) Briefly explain what this poem is about.	(3 marks)
••••••	•••••
••••••	•••••
•••••••••••••••••••••••••••••••••••••••	
(b) Explain the use of onomatopoeia in the poem.	(2 marks)
	•••••
(c) Identify and explain the tone of the poem.	(4 marks)
	•••••
	•••••
	•••••
///	•••••
d) Comment on the central theme of the poem.	(3 marks)
••••••	•••••
•••••••••••••••••••••••••••••••••••••••	•••••
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(4 marks)

(e)Explain the meaning of the following lines:

who could signal yellow

(i)

••••••	•••••
(ii) submarine of the Third World War	•••••
••••••	•••••
(f)How else can people bring change in society without assassinating (2mks)	politicians?
4	
	•••••
	>
(g)Explain the meaning of the following word as used in the poem i. Anchored	(1mk)
ii. Brood	(1mk)
QUESTION 4: GRAMMAR (15 N	MARKS)
A. Complete the following sentences by choosing the appropriate expressions of the complete the following sentences by choosing the appropriate expressions of the complete the following sentences by choosing the appropriate expressions of the complete the following sentences by choosing the appropriate expressions of the complete the following sentences by choosing the appropriate expressions of the complete the following sentences by choosing the appropriate expressions of the complete the following sentences by choosing the appropriate expressions of the complete the following sentences by choosing the appropriate expressions of the complete the	·
gaps. (3mks)	
(1) Although Nduati is a great friend of mine. I few important issues. (differ to, differ with)	him on a
(2) As good citizens, we must all pay our taxesthe accordance to, in accordance with)	he policy. (in
(3) She chose her career (independent of, ind mother.	ependent to) her





(1) My father would not allow us to attend night parties under any circumstances. (Begin: Under no circumstances	B. Rewrite the sentences below according to the instructions given after each. (3mks)
(2) Strangers should not be allowed into the compound without the security officer's permission. (Begin: On no account	(1) My father would not allow us to attend night parties under any circumstances.
(3) The plane had just taken off when one of the passengers began to scream. (Begin: Scarcely) C. Rewrite the following sentences avoiding repetition. (1) Always be frank and open with your friends. When you are frank and open to your friends, you will win your friends trust and confidence. (2) Some of the questions are difficult, so find the easier questions and do the easier questions first.	(Begin: Under no circumstances)
(3) The plane had just taken off when one of the passengers began to scream. (Begin: Scarcely) C. Rewrite the following sentences avoiding repetition. (1) Always be frank and open with your friends. When you are frank and open to your friends, you will win your friends trust and confidence. (2) Some of the questions are difficult, so find the easier questions and do the easier questions first.	
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(2) Some of the questions are difficult, so find the easier questions and do the easier questions first.	
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(2) Some of the questions are difficult, so find the easier questions and do the easier questions first.	
questions first.	mends, you will will your mends trust and confidence.
questions first.	
questions first.	
questions first.	
questions first.	(2) Some of the questions are difficult, so find the easier questions and do the easier
(3) Help yourself to some oranges. These oranges are sweet but those oranges are sweeter.	questions first.
(3) Help yourself to some oranges. These oranges are sweet but those oranges are sweeter.	
(3) Help yourself to some oranges. These oranges are sweet but those oranges are sweeter.	
(3) Help yourself to some oranges. These oranges are sweet but those oranges are sweeter.	
	(3) Help yourself to some oranges. These oranges are sweet but those oranges are sweeter.





D.	Combine each of the following pairs of sentences into one sentence by making one of them a relative clause. (1) Naliaka joined our school this term. She is very good at grammar.
•••	
•••	(2) The elephant is a very big animal. It is also very strong.
	(3) The generator had been on the whole night. It broke down in the morning.
	7 (~ (~) ~
е. Е.	Add an appropriate question tag to each of the following statements. (3mks) (1) They aren't serious.
	(2) He bought a new house last month.
	(3) They won't shut up.
	(4) Let us go.
	(5) He hasn't been here before.
	(6) You live in an apartment.





TOPMARK 2022 PREDICTION KCSE SERIES 1

NAME	INDEX NO
SCHOOL	SIGN
DATE	

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

101/3

ENGLISH

PAPER 3

(Creative composition and essays based on set texts)

Time: 2hrs 30 mins.

INSTRUCTIONS TO CANDIDATES

- a) . write your name, index number and the name of your school in the spaces provided
- **b**) . Answer any 3 questions
- c) . Question one and two are compulsory
- d) . Choose one question in question 3
- e) . Each essay must not exceed 450 words

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1	20	
2	20	
3	20	
TOTAL SCORE	60	





TOPMARK 2022 PREDICTION KCSE SERIES 1

NAME	INDEX NO
SCHOOL	SIGN
DATE	

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

ENGLISH

PAPER 3 TIME: 2 ½ HOURS

INSTRUCTIONS TO THE CANDIDATES

- a) Answer three questions only.
- b) Questions 1 and 2 are compulsory
- c) In question 1, choose either (a) or (b)
- d) In question 3, choose only one of the optional text you have prepared on.
- *e)* Where a candidate presents work on more than one optional text, the first one to appear will be marked.
- f) Each of your essays must not exceed 450 words (2 pages).
- *g)* All answers must be written in the answer booklet provided.

For examiner's use only

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1	20	
2	20	
3	20	
Total	60	





1. IMAGINATIVE WRITING

20mks

a) Write a composition beginning with the following. "I knew it was going to be a promising day when..."

Or

b) Dealing with pandemics require a lifestyle change. Discuss.

2. COMPULSORY TEXT- A DOLL'S HOUSE

"Women are generally loving and self-sacrificing" .Write an essay in support of this statement drawing your illustration from the play *A Doll's House*.

3. THE OPTIONAL SET TEXTS: MEMORIES WE LOST AND OTHER STORIES.

a) The Short Story

Window seat - Benjamin Branoff.

"Window seat is a mirror of the challenges facing the public transport industry." With relevant illustrations draw from the story, Show the truth of this statement.

b) <u>Drama</u>

Inheritance by David Mulwa.

20mks

Citizens suffer due to bad leadership. Write a composition to qualify this statement citing illustrations from David Mulwa's Inheritance.

c) The novel: The Pearl By John Steinbeck.

20mks

"Fortune can sometimes be tragic"

Validate this statement on reference to John Steinbeck's *The pearl*.





TOPMARK 2022 PREDICTION KCSE SERIES 1

NAN	MEINDEX NO
SCI	HOOL SIGN
DA'	TE
	Kenya Certificate of Secondary Education (K.C.S.E)
	KISWAHILI
	Karatasi ya 1
	(INSHA) Muda: saa 1 ³ / ₄
Maa	agizo
(a)	Andika insha mbili .
(b)	Insha ya kwanza ni ya lazima kisha chagua insha nyinginé moja kati ya hizo tatu zilizobakia
(c)	Kila insha isipungue maneno 400
(d)	Kila insha ni alama 20

Kwa matumizi ya mtahini pekee

Kila insha lazima iandikwe kwa lugha ya Kiswahili

Swali	Upeo	Alama
1	20	
	20	
Jumla	40	



(e)



MASWALI.

- **1.** Wewe umemaliza chuo kikuu hivi majuzi. Huku ukiambatanisha wasifukazi, andika barua ya kuomba kazi katika kampuni ya maji ya Nzoia kama mhasibu.
- 2. Technolojia mpya ya habari na mawasiliano(TECHNOHAMA) imeleta manufaa mengi nchini.
 Jadili.
- **3.** Mchuma janga hula na wa kwao.
- **4.** Andika insha itakayomalizikia kwa maneno haya :

.....kila aliyesikia habari hizi shuleni mwetu alifurahi na kushangilia kwa vifijo na nderemo kwani ushindi huo ulikuwa umengojewa kwa muda wa miaka mingi.







TOPMARK 2022 PREDICTION KCSE SERIES 1

NAME	INDEX NO
SCHOOL	SIGN
DATE	

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

102/2

KISWAHILI

Karatasi ya 2

(Ufahamu, Ufupisho, Matumizi ya lugha na Isimu jamii)

MUDA: SAA 2 1/2

Maagizo

1. Jibu maswali yote

2. Majibu yako yaandikwe katika nafasi zilizoachwa katika kijitabu hiki cha maswali.

Swali	Alama	Tuzo
1	15	
2	15	
3	40	
4	10	
Jumla	80	





SEHEMU YA A :UFAHAMU

(Alama 15)

Soma kifungu hiki kasha ujibu maswali.

Binadamu heshi kuwa na falsafa zinazojiri akilini mwake. Amejichanjia kijisayari chake na kufikirika mfano wa Mirihi katika falaki yake ya maisha. Ni sayari ndogo ambayo imejitenga na sayari nyingine kama vile kausi.

Mirihi kuna viumbe mauluti vyenye mitindo ya kustaajabisha. Tofauti na Kausi ambayo ambako mabinti huwa na urembo wa kiasilia, wanamirihi ni "warembo" mithili ya walioanguliwa ja vifaranga. Viganja vyao na nyuso zao huwa zimekandwa kwa mafuta ya zebaki zikawa nyororo japo wengi huwa mithili ya suriama. Wasalaminiapo na Wanakausi mikwaruzo yao huwachipua ngozi kwa kazi ya sulubu waifanyayo shambani. Fauka ya uchotara huo, wamefungasha kiasi huku wamejisetiri kwa vijisuruali na vijisketi ambavyo vimewabana kana kwamba vimeundwa kwa vitambaa vya mikononi na kutafuta misaada kutoka kwa majirani kuvivua na kuvivaa

Wanakausi waliovalia nguo zinazowafika kwenye visigino, huchushwa mno na hivi vijiguo vinavyowasetiri hadi kwenye sisemi vilegesambwa, ukipenda magotini, bali kwenye mapaja. Ni kweli kwamba waso haya wana mji wao. Wanapondatia hasa kwenye hafla za maziko au arusi katika sayari ya Kausi Wanakausi hujibana pembeni kujionea malimweng ulimwenguni. Minong'onezo ndio itajaa hewani " ni yakini Pemba ndiko kwenye nguo na wenda uchi wapo"

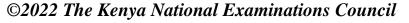
Katika hafla hizo, wale mabinti wazuri wa Mirihi hubeba **vibogoshi** ambamo mara kwa mara hutoa vidubwasha vidogo vidogo na kuendelea kujipodoa huku shughuli zinapoendelea. Pengine huenda umesahau kuwa katika mipango na makadirio ya matumizi ya hafla hiyo marejeleo yanayokaririwa huwa

"...wajua watu wa Mirihi hawapendi....."

Mabinti wazuri wa Mirihi kila mmoja huwa amejibebea mwavuli na kujizuia mvua au jua huku amekumbatia maji ya chupa ya kutoka kwenye ya Mirihi.

Wanakausi walalahoi huwa wakikata kiu yao rahisi kutoka kwenye mapipa yaliyojazwa maji au kwenye mifereji waliyobahatika kuwekewa na wizara ya maji, kwa kutumia viganja vya mikono. Mabwana wa Mirihi hawana haja na miavuli, wao huwa watu wenye zao. Huvalia kofia nene zinazoonekana kama somberero. Watembeapo huning'iniza funguo za magari ya kifahari katika mkono wa kushoto na simu ya rununu katika mkono wa kulia

Hapa na pale watakuwa wakiwasiliana kwa simu zao na pia kupiga gumzo na maghulumu wa



Kausi ambao kwa kawaida watakuwa wakiwarai Wanamirihi, "Utaniacha hivyo"

Baada ya hafla, mlo ambao huwa Wanamirihi hupakukuliwa huku Mabwanamirihi wakidakia wasichelewe, mabintimirihi wakinyofoa kwa mikono au kung'ofoa kwa midomo yao myekundu na Wanakuasi wakichungulia kwa mbali wakisubiri nafasi yao itimie.

Ghafla mawingu yataanza kutanda upande wa mashariki na mambo sasa yatachukua mkondo mpya. Wanamirihi mchakamchaka huengaenga, mbio kwenye magari yao. Lakini kuna wale ambao hawana magari ya kukimbilia. Kawaida yao huwaita Wanamirihi wenzao faraghani "Baba fulani umejaza?"

Wengine hubaki kusema, "Uenda basi letu likaniacha, tutaonana nikija wikendi."

Hali iwapo mwanana, Wanakausi watakuwa sasa ndio wakati wa kujitambulisha na wengine kuyajaza magari ya Wanamirihi ya kifahari kwa maembe, avokado, ndizi na makochokocho ya vitu vya shambani. Baada ya miezi kadha, Wanakausi wachache watawazuru Wanamirihi kuwapa shukurani katika kijisayari chao cha Mirihi.

Hapo sasa watavumbua jibu la kitendawili watakapokumbana na Bintimirihi amebeba kijikaratasi cha nailoni kimejazwa embe dondo moja, sukuma wiki, bila kusahau kisehemu cha nyama alichopimiwa cha shilingi kumi. Kwa kuwa atapata malazi kwake atamshauri, ".....pengine unionyeshe bucheri tununue nyama...tupitie dukani tununue....." hapo kwake Malaika atakuwa ameshuka kutoka Kausi hadi Mirihi.

Lakini wengine ni wale ambao pindi tu utakapowasalimia watakukwa na "zamu ya usiku siku hiyo." Wanaovalia somerero watamlaki Mwanakausi kwa mlahaka wa kifalme ili akastaajabie vitu kama **Majirafu**, mazulia, makochi, taja nitaje.

Yule wa awali atalala usiku huo usingizi mnono usio na bugudha na kwenye kochi huku akihimiria kurauka mapema asikutwe na waliolala nyuma ya pazia. Hisia za Mwanakausi zitamrudisha katika tamthilia ya Wole Soyinka "Masaibu ya ndugu Jero kuwa "vidole vyote havikuumbwa sawa." Mirihi ni sayari iliyosheheni watu na viatu, kumbe Kausi ni shamba la paukwa na pakawa la Edeni. Tafakari haya.





Maswali

1.	Andika anwani mwafaka ya taarifa hii	(Alama 2)
•••••		•••••
2.	Eleza tofauti kati ya wanawake wa Mirihi na wale wa Kausi.	(Alama 2)
•••••	71/22	••••••
3.	"Mabwana wa Mirihi ni watu wenye zao". Thibitisha.	(Alama 3)
•••••		••••••
•••••		•••••
4. viatu	Ni dhahiri kuwa Mirihi ni sayari yenye watu na viatu. Nini maana ya vi hapa?	atu. Je, kuna
Thibit	tisha.	(Alama 3)
•••••		••••••





5.	Mwandishi anamaanisha nini anaposema "Utaniacha hivyo?"	(Alama 2)
•••••	•••••••••••••••••••••••••••••••••••••••	••••••
6. i)	Eleza maana ya: Jirafu	(Alama 2)
• • • • • •		••••••
ii)	Vibogoshi	•••••
••••		<i>"</i>
SEF	HEMU YA B:UFUPISHO (AI	ama 15)

Katiba mpya imeipa lugha ya Kiswahili hadhi nyingine kuifanya kuwa lugha rasmi kando na kuwa ni lugha ya taifa. Mabadilliko haya muhimu yana changamoto kadhaa:

Kwanza kabisa lugha ya Kiswahili sasa itashindania nafasi sawa na ile ya kiingereza katika shughuli za kikazi. Swala hapa linahusu majukumu ambayo lugha hizi zitatekeleza. Je, lugha hizi zitatumika mtawalia katika shughuli za kikazi au zitatengewa majukumu maalum?

Lugha ya kswahili itachukua nafasi ipi? Kiingereza kitaachiwa nani tukizingatia kuwa kwa muda mrefu lugha ya kiingereza ndio imekuwa lugha tawala katika mazingira haya? Je, wananchi wataweza kufanya maombi ya kazi kwa lugha ya Kiswahili kando na kuendesha mawasiliano ya kiofisi kwa lugha hii. Kwa kifupi ili kusitokee mgongano wa matumizi ya lugha hizi mbili ni muhimu sana kwa watungasera kueleza kinagaubaga mawanda ya matumizi ya lugha hizi mbili katiaka mazingira ya kikazi.

Changamoto jingine na muhimu ni kiwango cha maandalizi ya wananchi katika kuyapokea mabadiliko haya. Kwanza, wananchi wanafaa wafahamishwe kuhusu haki yao ya kutumia lugha hii katika mazingira ya kazi. Si ajabu kuwa wengi wao hawana habari kuhusu mabadiliko haya ya kisera. Watumishi wa umma nao wanastahili kupewa mafunzo maalum kuhusu mbinu za mawasiliano katika kiswahilli waendeshe shughuli zao vizuri.

Kwa upande mwingine, vyuo vikuu pamoja na taasisi nyingine za mafunzo zinastahili kutoa kkozi ya lazima katika lugha ya Kiswahili kwa wanafunzi wanaojiunga nazo ili kuwaandaa kwa

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mahitaji haya mapya ya kikatiba. Kadhalika, serikali inastahili kuwandaa wataalamu zaidi wa lugha ya Kiswahili ambao watahuusika katika kuwafunza wanaohusika na utekelazaji sera.

Kuna haja pia ya wataalamu wa lugha kuandika vitabu zaidi kwa lugha ya Kiswahili ambavyo vitatoa mafunzo kuhusu mbinu mbalimbali za mawasiliano. Shughuli hii iambatane na ile ya kutafsiri vitabu vilivyoandikwa kwa lugha zingine kwa ile ya Kiswahili.

Kwa muda mrefu sasa, kumekuwa na tatizo la mtazamo hasa miongoni mwa wananchi kwa lugha ya Kiswahili. Baadhi ya wananchi wamekuwa na sababu zao za kutoitumia lugha hii wakishikilia kuwa lugha yenyewe ni ngumu.

Aidha, wananchi wengi wamekuwa na uzoefu wa kuzungumza lugha ya kiingereza au lugha nyingine za kigeni huku wakitoa nafasi finyu kwa lugha ya Kiswahili. Serikali inastahili kutafuta njia ya kuwahimiza wananchi wote kuionea fahari lugha ya kiswahiili, waipende na kuielewa vizuri.

Ni muhimu kufanywe kila juhudi kuhakikisha kuwa wananchi wanatumia Kiswahili sanifu ili wasije wakakivuruga kwa kukiendeleza visivyo au kwa kukiharibu kwa kijilugha cha sheng au kwalugha za kienyeji.

Vile vile ni muhimu wananchi watambue kuwa nchi yetu ya Kenya ndiyo kitovu cha lugha hii na hivyo basi wafanye kila juhudi kuitumia ipasavyo ili tusionekane kuwa watumwa katika lugha yetu asili. Tunahitaji viongozi vielezo nchini ambao wanazungumza Kiswahili sanifu kwa madoido na ufasha sio tu katika ulingo wa kisiasa bali pia katika nyanja nyingine za maisha.

Kwa hivyo, viongozi wetu wajiepushe na matumizi ya Kiswahili chapwa ili wananchi wahimizike kuzungumza Kiswahili kwa ufasaha. Ingekuwa hata bora ikiwa wangepewa kipaumbele katika kupokea mafunzo kabambe katika lugha hii. Pengine tungejifunza mengi kutoka nchi jirani ya Tanzania ambayo kwa kiasi kikubwa ilifaulu kurasmisha Kiswahili na kuleta umoja wa kitaifa.

Maswali

a) Eleza changamoto zinazoikumba lugha ya Kiswahili(Maneno 80) Maandalizi	(Alama8)
	• • • • • • • • • • • • • • • • • • • •
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b) Fupisha aya ya mwisho (Maneno 25)
Maandalizi
Maandanzi)))
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Jibu	
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	•••••
SEHEMU YA C: MATUMIZI YA LUGHA	(Alama 40)
a) Taja sauti mbili ambazo ni vipasuo vya mdomo	(Alama 2
b) Tunga sentensi ya neno moja yenye sehemu zifuatazo	(Alama 3
i) Ngeli ii) Wakati	
ii) Kirejeshi iv) Mzizi	
V) Kauli vi) Kiishio	





c)	Taja ngeli za majina yafuatayo	(Alama 2)
i)	Uga	
 ii)	Kiroboto	••••••••••••
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d)	Tunga sentensi ukitumia viwakilishi vifuatvyo:	(Alama 2)
i)	Kiwakilishi nafsi kiambata	
••••		•••••
••••		
ii)	Kiwakilishi ngeli	\supset
e) Kijaka	Andika kwa kinyume zi <u>aliangika</u> vyombo vya tajiri wake.	(Alama 1)
••••		
••••		••••••
f)	Unda nomino dhahania kutokana na vitenzi hivi:	(Alama 2)
i)	Cheza ii) Pika	
••••	•••••••••••••••••••••••••••••••••••••••	•••••
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••••		••••••
g)	Tunga sentensi sahihi kukbainisha tofauti kati ya maneno haya:	(Alama 2)
i)	Jua ii) Juha	





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•••••••••••••••••••••••••••••••••••••••	••••••
h) Andika katika ukubwa.	(Alama 1)
Sungura ambaye alikatwa mkia aliingia nyumbani.	
i) Tambua shamirisho na chagizo katika sentensi hii.	(Alama 2)
Alipiga teke mpira ukaruka juu juu zaidi.	
	·····
j) Changanua sentensi ifuatayo kwa njia ya matawi.	(Alama 4)
Mto ule uliofurika jana umezoa taka nyingi.	Š
k) Kanusha.	(Alama 1)
Jembe hilo ndilo nitumialo kulima shamba langu.	
 Tambua aina za vishazi katika sentensi ifuatayo: Mtoto mwenye bidii hufanya vyema. 	(Alama 2)





	Nyambua vitenzi vifuatavyo katika kauli zilizo kwenye mabano.	(Alama
i)	Tua (Tendama)	
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Fum	ba (Tendata)	
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n)	Eleza matumizi mawili ya ritifaa na utolee mifano kwa kila moja.	(Alama
• • • • • •		••••••
•••••		• • • • • • • • • • • • • • • • • • • •
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p)	Eleza maana mbili inayotokana na sentensi hii.	(Alama 2)
Alile	etewa ng'ombe na mtoto wake.	
• • • • • • •		••••••
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q)	Yakinisha.	(Alama 2)
Asipos	hiba hatafunguliwa.	
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• • • • • • •		•••••
•••••		7
		(41 - 4)
r)	Tunga sentensi ukitumia vivumishi vifuatavyo:	(Alama 2)
i)	'a'	unganifi
•••••		•••••
 ii)	Amba-rejeshi	•••••
11)	Aniba-rejesiii	
•••••		
•••••	•••••••••••••••••••••••••••••••••••••••	•••••
s)	Sahihisha sentensi hii kwa njia tatu.	(Alama 3)
Hapa ı	ndipo alikofia.	
•••••		•••••





	Iweke sentensi ifuatayo katika wakati uliopita hali timilifu.	(Alam
Alio	mba msamaha kwa kuchelewa.	
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•••••	1 (0) (0) 1	
EH	EMÙ YA D: ISIMU JAMII (A	lama 10)
a)	Eleza sababu nne zinazowafanya watu kubadili msimbo.	(Alam
•••••		•••••
•••••		•••••
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TOPMARK 2022 PREDICTION KCSE SERIES 1

NAMI	E	•••••	INDEX NO	•••
SCHO	OOL	•••••	SIGN	••••
DATI	Ε	••••••		
1	Kenya Certificate	of Secondary	Education (K.C.S.E)	
	V	102/3		
b) .	<mark>SIZO</mark> Andika jina lako na nambari Jibu maswali manne pekee.	KARATASI YA FASIHI MUDA :2 ¹ / ₂	3	
,	Swali la kwanza ni la lazima. Maswali havo mengine matai	zu vachaouliwe kutoka se	hemu zilizobaki ; yaani, Tamthilia, .	Hadith
	iwaya na Ushairi.	a yacaagaawe kalokasel	icinii zinzoouki , yuuni, 1 ummuu ,	LEUUUIII
-	Usijibu maswali mawili kutol	ka sehemu moja,		
\vec{f}	Majibu yote lazima yaandikw	ye kwa lugha ya Kiswahil	i	
	Kwa matumizi ya Mtal			
S	wali	Upeo	Alama	7
1		20		1
		20		7





20

20

Jumla

SEHEMU YA A:

1. <u>LAZIMA. FASIHI SIMULIZI</u>

a) Eleza vitambulisho vya mtambaji bora wa hadithi. (alama 4)

b) Fanani huihusisha hadhira kwa njia gani? (alama 4)

c) Eleza mbinu mlumbi anazoweza kutumia ili afanikishe uwasilishaji wa ulumbi (alama 12)

SEHEMU YA B: JIBU SWALI LA 2 AU LA 3.

TAMTHLIA: KIGOGO

2. "Wamenimaliza... wamenigeuka."

a) Weka dondoo hili katika muktadha wake.

b) Eleza namna msemaji alivyomalizwa na kugeukwa.

c) Eleza umuhimu wa mnenaji wa dondoo hili.

d) Eleza jinsi wahusika wengine walivyomalizwa katika tamthilia. (alama 8)

3. Utawala wa jimbo la Sagamoyo umejaa sumu ya nyoka."Jadili usemi huu. (alama 20)

SEHEMU YA C.

4. <u>Ushairi: Jibu swali la 4 au la 5</u>

Soma shairi lifuatalo kisha ujibu maswali yafuatayo.

Nyoosha mkono, uviringe ngumi, unyanyuwe kwa hasira.

Nyoosha mkono, sema hunitumi, ila haki ujira.

Nyoosha mkono, alama ya kukataa.

Alama ya nguvu

Nyoosha mkono, na macho makali, uwaonyeshe kukerwa

Nyoosha mkono, wataka halali, kwamba hutaki kuporwa

Nyoosha mkono, alama ya kukataa

Alama ya nguvu.





(alama4)

(alama 4)

Nyoosha mkono, umekula njama, uyakatae madhila Nyoosha mkono, nyanyua kwa hima, watambue hukulala Nyoosha mkono, alama ya kukataa Alama ya nguvu.

Nyoosha mkono, jiunge umoja, na wateswaji wenzako Nyoosha mkono, mwonyeshe miuja, yaondoke masumbuko Nyoosha mkono, alama ya kukataa Alama ya nguvu.

Nyoosha mkono, ivume sauti, inayojaa kitisho Nyoosha mkono, mumejizatiti kwa mengi maamrisho Nyoosha mkono,alama ya kukataa Alama ya nguvu.

Nyoosha mkono, mumeshikamana, huo ukuta wa chuma Nyoosha mkono, kitisho hakuna , wao watarudi nyuma Nyoosha mkono, alama ya kukataa Alama ya nguvu.

Maswali

a) Bainisha bahari tatu zinazojitokeza katika shairi.	(alama 3)
b) Andika ujumbe mkuu unaojitokeza katika shairi hili.	(alama 4)
c) Andika ubeti wa pili kwa lugha ya nathari.	(alama 4)
d) Onyesha tamathali mbili za lugha zilizotumiwa.	(alama 2)
e) Bainisha kwa njia tatu ni vipi mtunzi amefanikiwa kutumia uhuru wa kishairi .	(alama 3)
f) Tambua toni ya shairi hili	(alama 1)
g) Eleza maana ya maneno yafuatayo kama yalivyotumiwa katika shairi hili.	(alama 2)
i) Madhila	
ii) Jizatiti	



AU

5. Soma shairi lifuatalo kisha ujibu maswali.

MWANA

1. Kwani mamangu, u ng'ombe, au punda wadobi? Nakuuliza usambe, nayavunja madhehebi Nalia chozi kikombe, uchungu wanisibabi Hebu nambie

Kweli jaza ya kiumbe, ni madhila na mapigo?

MAMA

2. Nong'ona mwana, nong'ona, nikaumiza umiyo Sinipe kuja sonona, kwa uchungu na kiliyo Babayo mkali sana, kubwa pigo la babayo Kwani kelele kunena, huyataki maishiyo? Hilo nakwambia

MWANA

3. Sitasakamwa kauli, nikaumiza umiyo Nikabeba idhilali, ikautweza na moyo Siuvuwati ukweli, hazidisha gugumiyo Baba hafanyi halali, nawe hwachi vumiliyo Hebu niambie Kweli jaza ya kiumbe, ni madhila na mapigo?

Nambie ipi sababu, ya pweke, kwenda kondeni Nini ya, matulubu, kulima hadi jioni? Na jembe ukidhurubu, ukilitua guguni Yu wapi wako, muhibu, Baba kwani simuoni? Hebu niambie Kweli jaza ya kiumbe, ni madhila na mapigo?

Baba kwani simuoni, kuelekea shambani? Kutwa akaa nyumbani, na gumzo mtaaani Hajali hakuthamini, wala haoni huzuni Mwisho haya ni nini, ewe mama wa imani? Hebu niambie Kweli jaza ya kiumbe, ni madhila na mapigo?

Na kule kondeni kwako, ukatekuni kwa shoka





Ufunge mzio wako, utosini kujitwika Kwa haraka uje zako, chakula upate pika Ukichelewa vituko, baba anakutandika Hebu niambie Kweli jaza ya kiumbe, ni madhila na mapigo?

Chakula kilicho ndani,ni jasho lako hakika Kisha mbioni, wapita kupokapoka Urudi nje mekoni, uanze kushughulika Ukikosa kisirani, moto nyumbani wawaka Hebu niambie Kweli jaza ya kiumbe, ni madhila na mapigo?

MAMA

Wanitonesha kidonda, cha miaka na miaka Usidhani nayapenda, madhila pia mashaka Nakerwa na yake inda, na sasa nimeshachoka Ninaanza kujipinda, kwa mapambano hakika Hilo nakwambia.

Maswali

a) Mtunzi wa shairi hili alikuwa na dhamira gani katika kutunga shairi hili.	(alama 2)
b) Shairi hili ni la aina gani? Toa ithibati.	(alama 2)
c) Yataje mambo yoyote matano anayoyalalamikia mwana.	(alama 5)
d) Eleza kanuni zilizotumika kusarifu ubeti watatu.	(alama 5)
e) Andika ubeti wa nane kwa lugha tutumbi	(alama 4)
f) Eleza maana ya maneno haya yalivyotumika katika shairi hili	
i) Jaza	(alama 1)
ii) Muhibu	(alama1)

SEHEMU YA D: HADITHI FUPI: Tumbo lisiloshiba na hadithi nyingine.

Jibu swali la 6 au la 7.

6. a) Jadili matatizo yanayowakumba wakazi wa madongoporomoka katika Tumbo Lisiloshiba.(alama 10)





b) Ubadhirifu wa mali ya umma umetamalaki katika hadithi ya Shibe Itatumaliza. Jadili kwa kutoa mifanomwafaka. (alama 10) Au 7. "Aliyeumwa na nyoka akiona ung'ong'o hushtuka ." a) Weka dondoo hil katika muktadha wake. (alama 4) b) Eleza namna mzungumziwa alivyoumwa na nyoka. (alama 6) c) Eleza vile mzungumziwa anaendeleza maudhui ya ushauri na ukosefu wa utu. (alama 10) 8. CHOZI LA HERI "Dada Umu, Di, ni mimi, Ni ndugu yenu. Ni hai . Auntie Sauna alishikwa na polisi." a) Weka dondoo hili katika muktadha wake. (alama 4) b)Fafanua sifa tatu za msemaji (alama 6) c) Taja tamathali moja iliyotumika katika dondoo. (alama 2) d) Kwa nini Auntie Sauna alishikwa na polisi? Eleza kikmilifu. (alama 8)





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

121/1

MATHEMATICS

PAPER 1 TIME 2 ½ HOURS

INSTRUCTIONS TO THE CANDIDATES

- (a) Write your name and the index number in the spaces provided above.
- (b) Sign and write the date of examination in the spaces provided.
- (c) The paper contains **TWO** sections: Section **I** and II.
- (d) Answer **ALL** the questions in section **I** and **FIVE** questions in section **II** in the spaces provided below each question.

FOR EXAMINERS USE ONLY, SECTIONI

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

SECTION II

17	18	19	20	21	22	23	24	TOTAL





SECTION I 50 MARKS

Answer All The Questions In This Section.

1. Evaluate without using mathematical tables

 $\frac{1.9 \times 0.032}{20 \times 0.0038}$

(**3mks**)

2. Use tables of reciprocals only to find the value of

5 14

(3mks)

0.0829 0.581

3. You are given that $\cos \theta = \frac{\delta}{10}$. Without using mathematical tables express in fraction form the value of

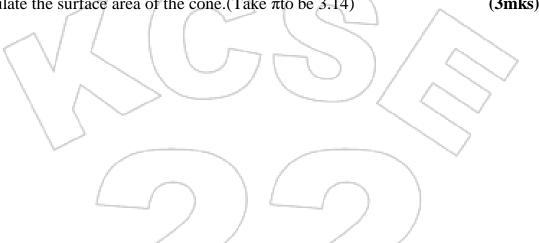
(a) $\sin \theta$





(b)	$\tan (90 - \theta)$	(3mks)

4. An open right circular cone has radius of 5cm and aperpendicular height of 12cm . Calculate the surface area of the cone. (Take π to be 3.14) (3mks)

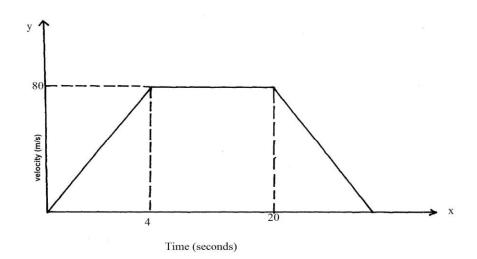


5. Nyongesa spends a total of sh.970 on buying 3 text books and 5 pens. If he had bought 2 text books and 5 pens he would have saved sh.90. Find the cost of one text book. (3mks)





6. The figure below is a velocity –time graph for a car



(a) Find the total distance traveled by the car?

(2mks)

(b) Calculate the deceleration of the car.

(2mks)

- 7. Three towns are situated in such a way that town B is 40km due south of town A and town C is 30 km due East of town B.
 - (a) Draw a sketch diagram showing the position of town A.B and C. (1mk)

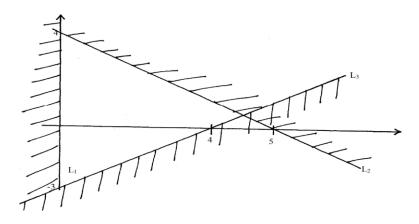




(b) From your sketch, calcu	ulate:	
(i) Distance AC		(1mk)
(ii) To the nearest of	degree the bearing of town A from town C.	(2mks)
	y for Kenya through Switzerland. While in S marts. Find the value of the watch in;	witzerland
(a) Swiss Franca		(2mks)
(b) Kenya shillings using t	he exchange rates below,	
1 swiss Franc = 1.28 DM and 1	Swiss Franc = 45.21 Kenya shillings	
9. Find the inequalities that define	nes the region R shown in the figure below	(4mks)







10. Form the quadratic equation whose roots are $x=-\frac{3}{3}$ and x=1

(2mks)

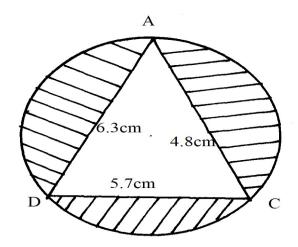
11. ABCD is a circle quadrilateral and AB is a diameter. Angle ADC=117^o. Giving reasons for each step, calculate the value of angle BAC. (3mks)



12. The circle below whose area is 18.05cm² circumscribes a triangle ABC where AB=6.3cm, BC =5.7cm and AC =4.8cm. Find the area of the shaded part. (3mks)







13. Solve for x in the equation





14. A form IV maths teacher originally worked out the mean mark of her 30 students to be 41. After the correction of the test, she added some marks of the test, she added some marks to Njoki, Chelimo and Nafula in the ratio 2:3:4,if the new mean mark for the class is 42.5 determine how many more marks Nafula was added than Chelimo. (3mks)



15. The volumes of two similar solid cylinders are 4752 cm³ and 1408 cm³. If the area of the curved surface of the smaller cylinder is 352 cm², find the area of the curved surface of the larger cylinder (2mks)





16. The line which joins the point A (3, K) and B (-2, 5) is parallel to the line whose equation is

5y+2x-7=0. Find the value of K.

(3mks)



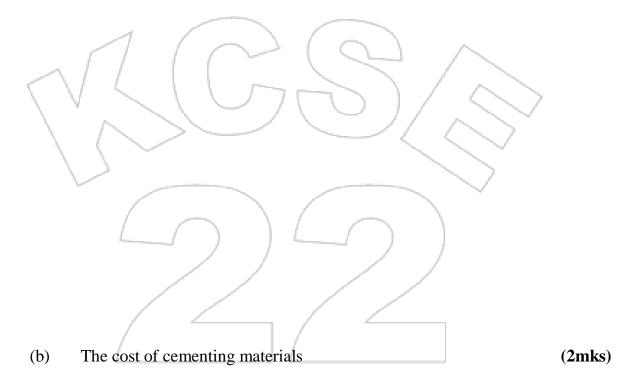




SECTION II (50 MARKS)

Attempt only FIVE questions in this section

- 17. A newly built classroom measuring 6m long 4.5m wide and 3.2 m high is to be cemented on the floor and all inside walls. The classroom has one door measuring 1.85m by 80cm by 80cm and four windows measuring 1.5m by 70cm each. Cementing materials cost 500 per square meter while labour costs 20% of the cost of cementing materials. Calculate:
 - (a) To one decimal place, the total surface are to be cemented (5mks)



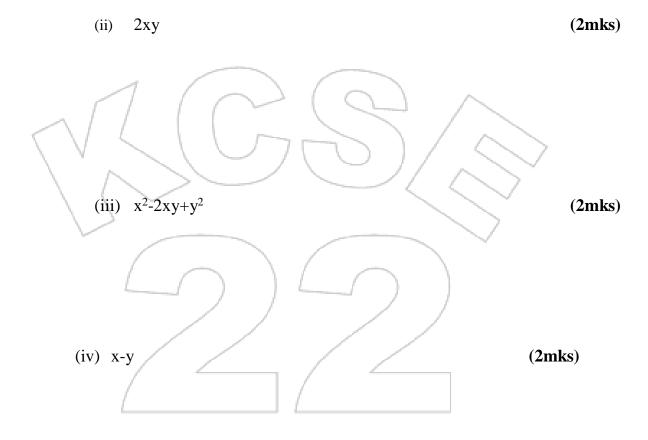
(c) The total cost of cementing the classroom (3mks)





- 18. If $x^2+y^2=29$ and x+y=3
 - (a) Determine the values of

(i)
$$x^2+2xy+y^2$$
 (2mks)



(b) Find the value of x and y (2mks)

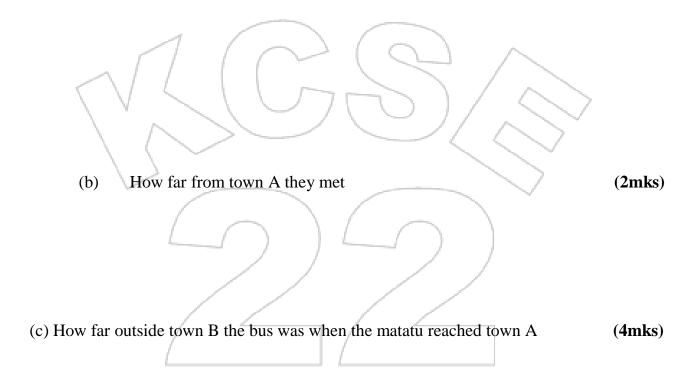




19. A country bus left town A at 11.45 am and traveled towards town B at an average speed of 60km/h. A matatu left town B at 1.15 pm. On the same day and traveled towards town A along the same road at an average speed of 90km/h. the distance between the two towns is 540km.

Determine

(a) The time of day when the two vehicles met (4mks)





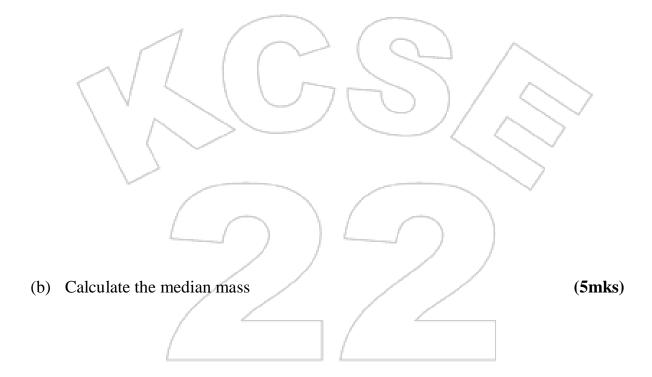


20. The table below shows the names of 200 persons measured to the nearest kg

Mass	40-49	50-59	60-69	70-79	80-89	90-99	100-109
(kg)							
No. of	9	27	70	50	26	12	6
persons							

(a) Calculate the mean mass

(5mks)



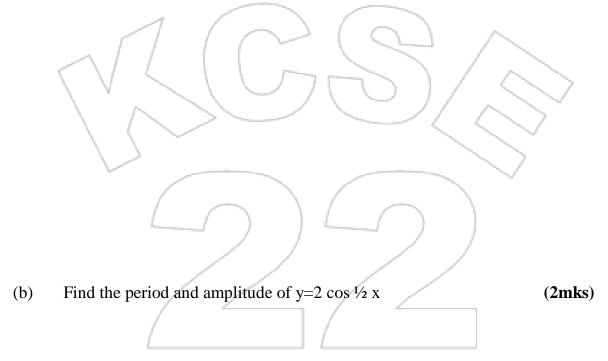




21. (a) Complete the table below by filling in the blank spaces

X^0	0	30	60	90	120	150	180	210	240	270	300	330	360
Cos x	1.00		0.5			-		-					
						0.87		0.87					
2 cos	2.00	1.93				0.52			-				-
½ X									1.00				2.00

Using the scale km to represent 300 on the horizontal axis and 4cm represent 1 unit on the vertical axis, draw on the grid provided the graphs of $y=\cos x$ and $y=2\cos \frac{1}{2}x$ (4mks)

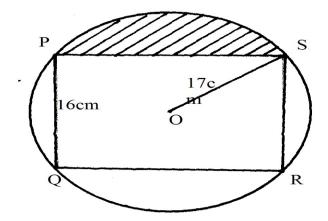


(c) Describe the transformation that maps the graph of y= $\cos x$ on the graph of y= $2\cos \frac{1}{2}x$ (2mks)

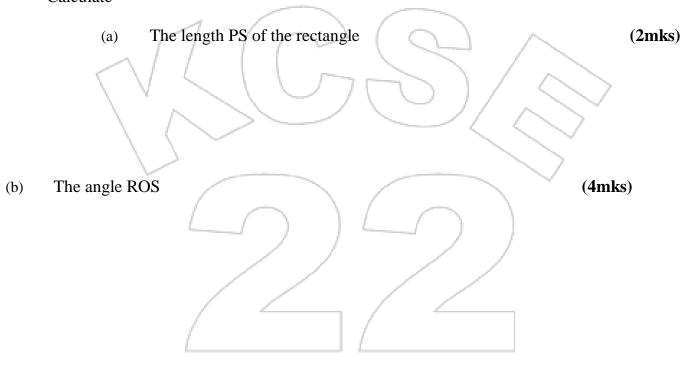




22. The figure below represent a rectangle PQRS inscribed in a circle centre O and radius 17 cm. PQ = 16 cm.



Calculate



(c) The area of the shaded region

(4mks)





23. (a) (i) Complete the table below for the function

 $Y=x^3+x^2-2x$ (2mks)

X	-3	-2	-1	0	1	2	2.5
-2x	6	4	2	0	-2	-4	-5
X^2	9	4	1	0	1	4	6.25
X^3	-27	-8	-1	0	1	8	15.625
$Y=x^3+x^2-2x$							

(ii) On the grid provided, draw the graph of $y=x^3+x^2-2x$ for the values of x in the interval-

 $3 \le x \le 2.5$ (4mks)

(iii) State the range of negative value of x for which y is also negative (1mk)

egative value of A for which y is also negative (Time)

(b) Find the coordinates of two points on the curve other than (0,0) at which x-coordinate and y-coordinate are equal. (3mks)





- **24.** Use a ruler ad a compass only for all constructions in this section.
 - (a) Construct a triangle XYZ in which XY =6cm YZ =5cm and angle XYZ=120⁰. (2mks)



- (c) Construct the perpendicular bisector of XZ and let it meet XZ at M (1mk)
- (d) Locate a point W on the opposite side of XZ as Y and that XW = ZW and YW = 9cm and hence complete triangle XZW. (3mks)





TOPMARK 2022 PREDICTION KCSE SERIES 1

NAME	INDEX NO
SCHOOL	SIGN
DATE	
Kenya Certificate of Secondary	Education (K.C.S.E)
121/2	
MATHEM	ATICS
Paper 2	

INSTRUCTIONS TO CANDIDATES

Write your name and Admission number in the spaces provided at the top of this page.

2 ½ Hours

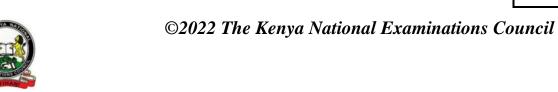
- This paper consists of two sections: Section I and Section II.
- Answer ALL questions from section I and ANY FIVE from section II
- All answers and workings must be written on the question paper in the spaces provided below each question.

FOR EXAMINERS USE ONLY. SECTIONI

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

SECTION II

17	18	19	20	21	22	23	24	TOTAL





SECTION I 50 MARKS

1. Solve for x in the equation $-2x^2 + x + 36 = 0$ using completing the square method (3mks)

2. Simplify by rationalizing the denominator in $\frac{4-\sqrt{2}}{3+\sqrt{2}}$ leaving your answer an the form $a+b\sqrt{c}$ where a,b and c are integers. (3mks)



3. Find the value of x in the equation $\cos(3x-180^\circ) = \frac{\sqrt{3}}{2}$ in the range listed below. $0^\circ \le x \le 360^\circ$ (3mks)





4. Draw a line AB=4cm, P is a variable point in the plane of the paper, above AB, such that angle $ABC = 60^{\circ}$ and the area of triangle APB= $6cm^{\circ}$. Using a ruler and a pair of compasses only find the locus of P. (3mks)

5. Expand and simplify the binomial $\left(2 + \frac{3}{x}\right)^5$. Hence use the first four terms of your expansion to find the value of $(2.5)^5$

6. The length and breadth of a rectangular floor garden were measured and found to be 4.1m and 2.2m respectively. Find the percentage error in its area. (3mks)





7.	Solve fo	$\mathbf{r} \mathbf{x} $ in 1	he equati	on 3(<i>lo</i>	$(ax)^2$	$loax^5 +$	-2 = 0
<i>,</i> •	DOIVE TO	1 11 111	me equan		$g \lambda j$	ioga i	<u> </u>

(3mks)

8. Make s the subject of the formulae in the following; $sa = \sqrt{\frac{s^2 + q}{t^2}}$ (3mks)



9. Each member of a class take one and only one of the three foreign languages: French, German and Spanish. 15 pupils take French, 9 take German and 6 take Spanish. Two pupils are chosen at random. Represent the information in a tree diagram hence find the probability that both pupils take different subjects.

(3mks)

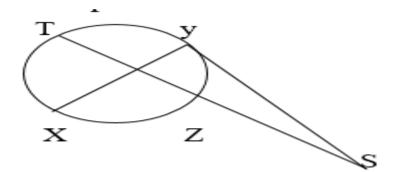




10. The amount of oil used by a ship travelling at a uniform speed varies jointly with the distance and the square of the speed. If the ship uses 200 barrels of oil in travelling 200 miles at 36 mile per hour, determine how many barrels of oil are used when the ship travels 360 miles at 18 miles per.
(3mks)

11. Use logarithms to evaluate: $\sqrt[3]{\frac{45.3 \times 0.00697}{0.534}}$ (4mks)

12. The figure below shows a circle of diameter XY. Chord TZ intersects XY at C. A tangent to the



circle at Y meets TZ produced at S.



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Given that TC = 14 cm, CY = 4 cm and YS = 7.5 cm. calculate the length of :

a) CS (1mk)

b) XC (2mks)

13. Determine the values of x for which the matrix $\begin{pmatrix} 2x & x^2 \\ 2 & 1 \end{pmatrix}$ has no inverse (3mks)

14.Mr. Kimbo, a local retailer bought imported rice at sh. 56 per kilogram and local rice at sh. 48 per kilogram. He wants to mix the two types of rice so as to make a profit of 20%. If he sold the mixture at sh.120 per 2 kilogram packet, find the ratio the two types of rice was mixed. (**3mks**)





15. The sixth term of a geometric progression is 16 and the third term is 2. Determine the common ratio and the first term. (3mks)

16. The equation of a circle is given by $x^2 + 4x + y^2 - 2y - 4 = 0$. Determine the centre and radius of the circle. (3mks)



(Answer ANY FIVE questions in the spaces provided)

17. The table alongside shows the rates of taxation in a certain year.

Income in K£p. a	Rate (Sh. Per <i>K£</i>)
1 – 3900	2
3901 – 7800	3
7801 – 11700	4
11701 — 15600	5
15600 — 19500	7
Above 19500	9





In that year Mr. Kariuki at teacher at Kangaru High School was earning a basic salary of Ksh. 27 000 per month. In addition he was entitled to other taxable allowances totalling to 11 000 per month and a personal relief of Ksh 1056 per month. He lives in teachers' quarters where he is paying a nominal rent of Ksh. 3 500 per month.

(a) Calculate how much income tax Mr. Kariuki is paid per month.

(4 marks)

(b) Mr. Kariuki's other deductions per month were co-operative society contribution of sh 2500 and loan repayment of sh. 3000, calculate his net salary per month. (3 marks)

(c) Later the same year Mr. Kariuki was transferred to another school where he earned hardship allowance equivalent to 30% of his basic salary. On top of the deduction in (b) above, he also had a deduction of sh 2700 per month to KCT. Calculate the percentage change in his net salary per month (3 marks)





18. Given that $y=2x^{o}+\cos \frac{1}{2}x^{o}$, complete the table below for the missing values of y, correct to 1 decimal place (2mks)

Χ°	0°	30∘	60°	90°	120°	150°	180∘	210°	240°	270°	300∘	330∘	360∘
Y=sin 2x+ cos ½ x	1.0	1.8			-0.4	-0.6			0.4	-0.7			-1.0

(b) On the grid provide below, draw the graph of y=sin $2x^{\circ}+\cos\frac{1}{2}x^{\circ}$ for $0 \le x \le 360^{\circ}$ Take the scale 1cm for 30° on the x-axis. 2 cm for 0.5 units on the y-axis.

(4mks)





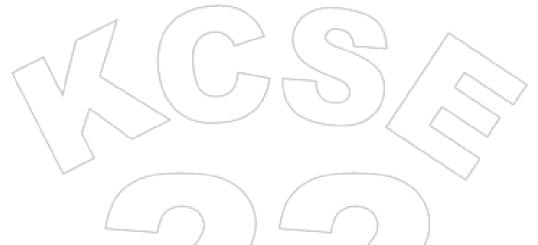
- (c) Use the graph to estimate
 - (i) The minimum value of y

(1mk)

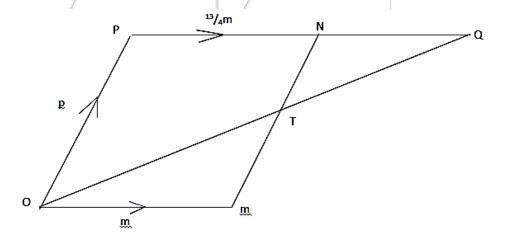
(ii) The value of x for which

$$\frac{1}{2}\sin 2x + \frac{1}{2}\cos \frac{1}{2}x \ge 0.25$$

(**3mks**)



19. Quadrilateral OMNP is such that OM = m, OP = p and $PN = \frac{13}{4}m$. PN is produced to Q such that PN: PQ = 13:15. T is a point on MN such that MN = 3TN



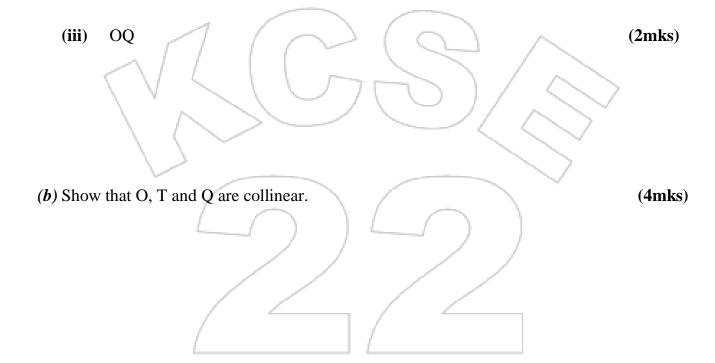
(a) Express in terms of m and p



CONTRACT OF THE PARTY OF THE PA

(i) OT (2mks)

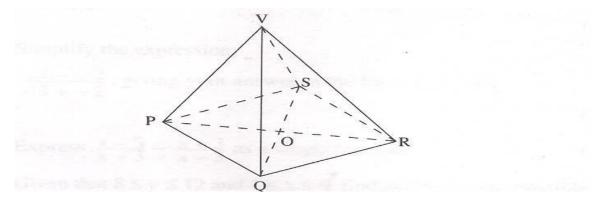
(ii) PQ (2mks)



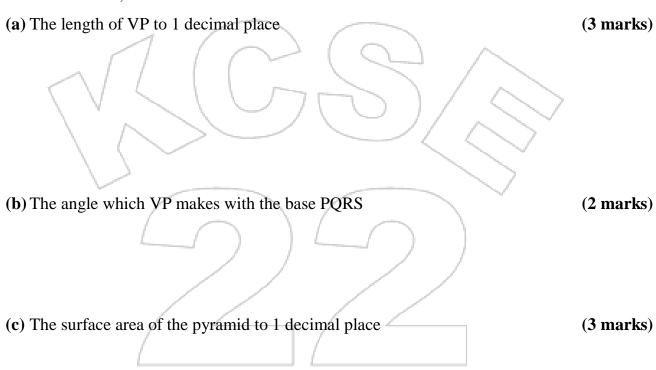




20. The figure below represents a right pyramid on a square base PQRS of side 12 cm. O is the centre of the base and VO = 14 cm.



Calculate;



(d) The volume of the pyramid (2 marks)





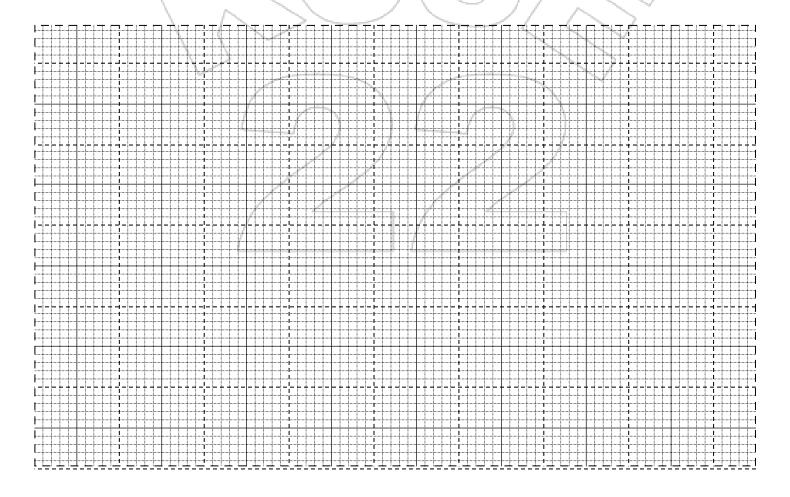
21. The table shows the goods (P) produced by a certain factory in time (t) since 2010 is believed to obey a law of the form P=kA^t where k and A are constants and t is time in years.

t	2010	2011	2012	2013	2014	2015	2016
P	5000	6080	7400	9010	10960	13330	16200

a) Express the law $P=kA^t$ where k and A are constants and t is time in years in the linear form y = mx + c and fill the table appropriately. (3mks)

b) Plot a suitable straight line graph

(4mks)



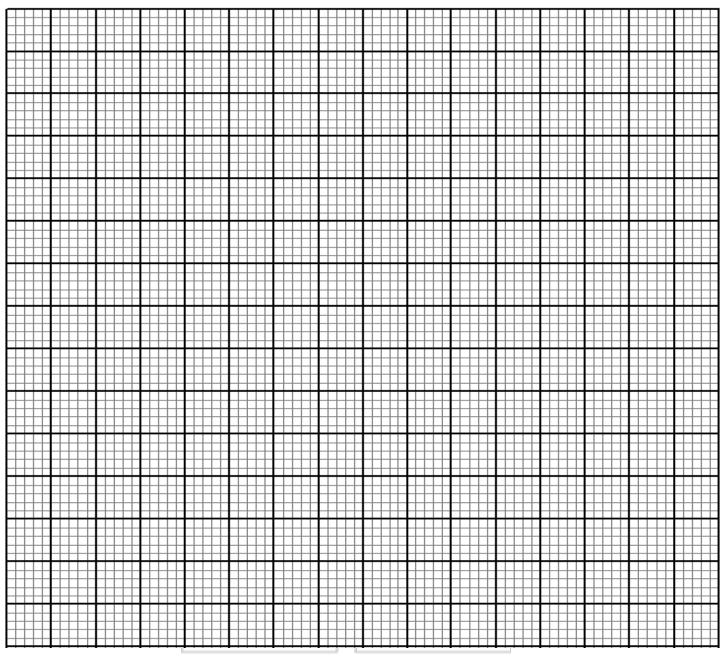




c) Use the graph above to find the values of A and k.	(3mks)
22. A small scale farmer wishes to buy some sheep and goats for rearing. A sheep co	osts sh.400 and a
goat costs sh.300. The farmer has enough space for only 20 animals and may space	end at most
sh.6800. The number of goats should not exceed twice the number of sheep. a) By letting x and y to represent the number of sheep and goats he can buy re-	espectively write
a) By fetting x and y to represent the number of sneep and goats he can only to	espectively, write
down all inequalities from the above information	(4mks)
down all inequalities from the above information.	(4mks)
down all inequalities from the above information.	(4mks)
down all inequalities from the above information.	(4mks)
down all inequalities from the above information.	(4mks)
b) Represent the inequalities on the grid provided.	(4mks)







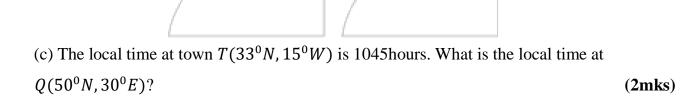
c) From your graph; find the maximum number of animals he can buy at the lowest cost.(2mks)





23.(a) An aeroplane flies from town $A(20^{\circ}N, 60^{\circ}N)$ to town $B(20^{\circ}N, 20^{\circ}E)$. (Taking R= 6400km, $\pi = 3.142$)If it then flies due north from town B to town C, 420km away, calculate correct to the nearest degree, the latitude of town C. (3mks)

(b) Calculate the shortest distance in km between towns $P(60^{0}N, 40^{0}W)$ and $Q(60^{0}N, 30^{0}E)$ giving your answer to 2 decimal places (2mks)







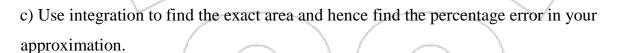
- **24.** Use Trapezoidal rule to find the area between the curve. $y = x^2 + 4x + 4$, the x-axis and the ordinates x = -2 and x = 1 (Use 7 ordinates)
 - a) Complete the table correct to 2 d.p.

(2mks)

ſ	X	-	-	-	-	0	0.5	1
		2	1.5	1	0.5			
	у							

b) Find the area enclosed by the curve, the x-axis, lines x = -2 and x = 1.

(3mks)



(5mks)





TOPMARK 2022 PREDICTION KCSE SERIES 1

NAME	INDEX NO
SCHOOL	SIGN
DATE	

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

451/1

COMPUTER STUDIES

PAPER 1 THEORY TIME 2 ½ HOUR

INSTRUCTION TO CANDIDATES

- ❖ Write your name and index number in the spaces provided above
- ❖ This paper consists of two sections A and B.
- * Answer <u>ALL</u>questions in section A.
- ❖ Answer question <u>16</u> and any other THREE questions from section B.

For Examiners Use Only

Section	Questions	Candidates Score
A	1-15	
	16	
	17	
	18	
	19	
В	20	
	TOTAL SCORE	



1.	Name the parts labeled in the diagram below of a page layout properties	[3 marks
	i ii iii	
	i	
	lii-	
2.	Explain briefly how an uninterruptible power supply (UPS) may help to protect a computer system and its data.	[1 mark]
3.	How is data verification different from data validation?	[1 mark]
	Give one example of data validation technique	[1 mark]
	Give one example of data verification technique	[1 mark]





l.	What kind of program is normally contained in a ROM chip and Explain briefly	the main
	purpose of such a program.	[2 marks
•	Distinguish between system software and application software.	[2 mark]
•	Give the similarities between optical mark readers and optical character readers	. [2 marks] >
	<pre> (n) (n)</pre>	
•	In word processing, distinguish between text insertion and overtyping.	[2 marks]
3.	Explain, using examples where appropriate, the meaning of these computer term	ns.
	(i) interrupt	[2 Marks]





	(ii) buffer	[2 Marks]
9.	Explain the following spreadsheet concepts:	
	(i) Automatic Recalculation.	[1 mark]
	(ii)What if analysis	[1 mark]
10		
10	Explain briefly why the advancement of computer technology has caused environ hazards.	[2 marks]
	(i)What is telecommuting?	[1 mark]
	(ii)State four benefits of telecommuting.	[2 marks]





(ii)How is e-commerce different from e-business?	[1 marl
(i)What is a coprocessor?	[1 mar
1000	
(ii)How does parallel processing work?	[1 mar
)
(iii)What is pipelining?	[1 mar
(i)What is a driver program?	[1 mar
(ii). Give one example of hardware device that may serve more than one pu	rpose (e.g., in
and output).	[2 mar





4. (i)How is a patent different from a trademark?	[2 marks]
(ii)What is the difference between unauthorized access and unauthorized use?	[2 marks]
5. (i)What is a workstation?	[¹ / ₂ mark
(ii)What is a server?	[¹ / ₂ mark]
SECTION B	
Answer question 16 (compulsory) and any other three questions from this s	<u>ection</u>
6. (a) Explain the three control structures in programming	[3 Marks]
(i)	
(ii)	





(b)State and describe three types of error can occur in programming	[3 Marks]
(i)	
(ii)	
(iii)	
(i) State two differences between a compiler and an interpreter	[2 marks
$1 \left(0 \right) \left(0 \right) \wedge$	
	>
Give one advantage of compliers over interpreters	[1 mark]
(iii)Give one advantage of interpreters over compliers	[1 mark]
(d) Draw the corresponding flowchart for the pseudo code below.	[4 marks]
Assign 0 to A,	
Repeat adding 1 to A,	
Until A is greater than or equal to 5,	



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rograms, data and information ar	re stored?	[2 marks]
rograms, data and information at	e stored?	[2 marks]
b) (i) Give three advantages of o	optical fibers over twisted-pair wires a	nd coaxial cables.
~ 11	~ (A) V	[3 marks
		\supset
		>
(ii) Suggest two disadvantages	of optical fibers.	[1 mark]
(ii) Suggest two disact untages	or option moris.	[1]
		
	///	
/ -	/	
Compare asynchronous and sync	chronous transmission.	[1 mark]
asynchronous	synchronous	





ive one disadvantage o	of the c(1) above	[1 mai
asynchronous	synch	nronous
ompare the following	Ring ,star and bus network	topologies. [1
Bus NetWork	Ring NetWork	Star Network
~ 1		
\ \ \ \		
ii)Give one disadvant	age of each	[1:
Bus NetWork	Ring NetWork	Star Network
iii)Draw a diagram t re	epresent the ring ,star and 1	ous topologies [1 ½ marks]
Bus NetWork	Ring NetWork	Star Network





(ii)If a 56K modem is operating at full speed, how long does it take to download a 1-MBfile? [2 marks]

18. (a).Describe the role of the systems analyst.	[2 marks
(b).Describe 2 techniques used by the systems analyst in requirements spe	ecification.[2 marks]
(b).In the software development process, what happens at the analysis stag	e? [1 Mark
	/
(c) Describe fully what is meant by the term top-down design?	[3 Marks
The process of developing such software is an iterative process. What does	
	[1 Mark]
(i) What are CASE tools?	[1 Mowlet
1) What are CASE tools?	[1 Mark]





ii)What is the purpose of CASE tools?	[1 Mark]
iii) What does <i>CASE</i> stand for? [1	Mark]
f) Identify ant two activities within the design stage of the software develo	opment process. [3Marks]
9 (a).Describe four functions of a single user operating system.	[4 Marks]
(b) Explain the need for an operating system to have a command langu	age interpreter. [1Mark]
(c) Give 4 examples of the many processes which can be initiated by a carried out by the operating system.	user and which are then [4 Marks]
(d) What happens if a command entered by the user is not recognized b	y the operating system? [1 Mark]





(e)Describe an advantage and a disadvantage	ge to storing the operating system in RAM rather than
in ROM?	[2 Marks]
(g) Describe three features that a networko	peratingsystem must have that a single user
operating system does not need.	[3 Marks]
,	
20. (a) Explain two reasons why compu	ters use the binary system? [2 Marks]
(b)What is meant by the term wor	d in the phrase 16-bit word computer? [1 Mark]
	/
(c) What is the decimal value of the	largest integer that can be represented by a byte in a
computer which deals only with positive nu	mbers? [1 Mark]
·	
(d) What does the acronym ASCII stand fo	r and what is ASCII? [2 Marks]





(e) Complete the following table and note that no marks will be awarded for answers with missing or unclear working.

[6 Marks]

BIN	DEC	HEX
	45	
		В6
11001		







NAME	INDEX NO
SCHOOL	SIGN
DATE	

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

451/2

COMPUTER STUDIES

PAPER 2 (PRACTICAL) 2 1/2 Hours

INSTRUCTIONS TO CANDIDATES

- a) Indicate your name and index number at the top right hand corner of each printout
- b) Write your name and index number on the CD/Removable storage media provided
- c) Write the name and version of software used for each question attempted in the answer sheet provided
- d) Answer all questions
- e) All questions carry equal marks
- f) Passwords should not be used while saving in the CD/Removable storage medium
- g) All answers must be saved in the CD/Removable storage medium
- h) Make printout of the answers on the answer sheet
- i) Arrange your printout and ties/staple them together
- j) Hand in all printouts and the CD/Removable storage medium used
- k) This paper consists of <u>four</u>printed pages
- *l)* Candidates should check the question paper to ascertain all the pages are printed as indicated and that no question is missing
- m) Candidates should answer the questions in English
- n) ALL Data for currency data type should be formatted to Kenya Shillings
- o) All the system Date and Time should be set to correct Kenya time and Date settings





QUESTION ONE

a) The data below shows a spreadsheet for loan applicants from a youth fund from a certain county.

MEMBER		DATE OF	DATE OF			AMOUNT
NO	NAME	BIRTH	APPLICATION	GENDER	AGE	APPLIED
						Ksh
A001	ABC	1/3/1992	1/1/2016	M		200,000.00
						Ksh
B001	CDE	2/6/1999	3/1/2016	F		600,000.00
		1 /	\sim (\circ		~	Ksh
C008	FGH	5/6/1992	3/1/2016	M		400,000.00
_	V	1				Ksh
K001	JKL /	2/7/1990	7/1/2016	E/		700,000.00
		h				Ksh
S007	MNO	2/9/1960	7/1/2016	M	>	600,000.00
						Ksh
Z006	KRS	4/8/1992	2/2/2016	M/ /		500,000.00
						Ksh
A008	TUV	4/8/1960	3/2/2016	M		700,000.00
						Ksh
B005	CED	2/6/1995	5/2/2016	F		600,000.00
						Ksh
C011	HGF	5/6/1990	10/2/2016	M		400,000.00
						Ksh
K012	LKJ	2/7/1970	6/1/2016	M		700,000.00
						Ksh
S019	NOM	2/9/1991	4/6/2016	M		600,000.00





Type the data as shown in the spreadsheet above name the worksheet as Original save the workbook as application. (14 Marks)

- (b) Copy the worksheet named original above to another worksheet in the same workbook and name it as Evaluation.
 - (i) Fill the column for the (AGE) which is the difference between DATE OF APPLICATION and DATE OF BIRTH in years to the nearest whole number. (6 Marks)
 - (ii) Create a validation in the DATE OF APPLICATION such that it should be after DATE OF BIRTH. (2 Marks)
 - (iii) Format all columns having currency Data type to Kenya shilling. (2 Marks)
 - (iv) Create the columns COMMENT and AMT AWARDED.

The COMMENT is based on the following

- If the gender is male and the age by the data of applicable is greater than 30 years the COMMENT is INELIGIBLE otherwise ELIGIBLE.
- Amount awarded if a person is eligible if 80% of the amount applied.
- (v) Fill in the two columns for the AMOUNT AWARDED and COMMENT using the formula. If an

applicant is INELIGIBLE the amount awarded is left blank. (10 Marks)

- (c) Copy the worksheet named Evaluation above to another worksheet in the same workbook and name it as final.
 - (i) Filter out data in the final in the final worksheet leaving out those who have been awarded a loan. (2 Marks)
 - (ii) Create a table showing the total amount awarded to all Males and total awarded to Females and total for both male and females. In the sample table below fill in the values using conditional if statement . (6 Marks)





	AMOUNT(Ksh)
MALE	
FEMALE	
Total	

(iii) Draw a pie chart representing the total amount for males awarded and females warded

(2 Marks)

(d) Print the following: (4 Marks)

(i) Original worksheet

(ii) Evaluate worksheet

(iii) Final worksheet

(iv) The pie chart





QUESTION TWO

The table below an extract of a manual data structure system used by a librarian of a particular school

ADMN	S_NAM	CLAS	BOOK_N		BORRO	DATE_BORROW	DATE_RETURN
0	E	S	0	TITLE	W TYPE	ED	ED
				COMPTER			
123	MIKE	1A	B001	STUDIES BK 1	SHORT	2-1-2016	12-1-2016
				COMPREHENSI			
456	JOHN	1B	A002	VE ENG BK 1	LONG	1-2-2016	17-1-2016
				KIE			
	ADRE			MATHEMATIC			
789	W	1C	B003	S BK 1	LONG	1-3-2016	14-3-2016
			1	LONGHORN		1	
		-		GEOGRAPHY			
987	JAMES	2A	D004	BK2	SHORT	1-4-2016	8-4-2016
		M	L	KISWAHILI		1//	
654	JACOB	2B	K005	SHAIRI BK2	SHORT	1-5-2016	9-5-2016
	NANC	\		MATHEMATIC)
321	Y	2C	B006	S BK2	SHORT	2-3-2016	10-3-2016
879	MARY	3A	C005	HISTORY BK3	LONG	2-4-2016	17-4-2016
		-	- Andrewson	FOUNDATION			
	MERC		/	CHEMISTRY		\	
564	Y	3B	K009	BK 1	LONG	2-5-2016	14-5-2016
				KISWAHILI		/ /	
213	PETER	3C	H001	LUGHA BK 2	LONG	1-4-2016	18-4-2016
				KISWAHILI			
123	MIKE	1A	K005	SHAIRI BK2	SHORT	1-5-2016	19-5-2016
			/	MATHEMATIC	_		
456	JOHN	1B	B006	S BK2	SHORT	1-4-2016	5-4-2016
	ADRE						
789	W	1C	C005	HISTORY BK3	SHORT	1-4-2016	7-4-2016
				FOUNDATION			
				CHEMISTRY			
987	JAMES	2A	K009	BK 1	LONG	1-5-2016	8-5-2016
				KISWAHILI			
654	JACOB	2B	H001	LUGHA BK 2	LONG	1-4-2016	22-4-2016

The library charges 2 shillings per every book borrowed per day, if the book is not returned in time it attracts a penalty of 5 Shilling per day. The short loan is a maximum of seven days while the long loan is 14 days





NO as primary key)
(6 Marks)
(2 Marks)
(15 Marks)
nould have the
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(10 Marks)
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OWED,TOTAL_C
(2 Marks)
uery should have the
OWED,TOTAL_C
(2 Marks)
ween any two dates
o Kenya shillings
(6 Marks)
nort loan borrowing
ya shillings
(4 Marks)
(4 Marks)





NAME	INDEX NO
SCHOOL	SIGN
DATE	

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

441/1

HOMESCIENCE

PAPER 1

TIME: 2 1/2 HOURS

INSTRUCTIONS

- This paper contains 3 sections: A, B and C
- Answer all questions in section A and B and any two questions from section C

FOR EXAMINER'S USE ONLY

SECTIONS	QUESTION	MAX. SCORE	ACTUAL SCORE
A	1-21	40 MARKS	
В	22	20 MARKS	
С	23 – 25	40 MARKS	





SECTION A (40 MARKS)

1.	Define the following terms as used in nome science. (A	zmks)
	(a) Accessories	
•••••		••••••
•••••	(b) Haberdashery	•••••
	11000	•••••
2.	State two reasons for using fabric conditioner in laundry.	(2mks)
• • • • • • • • • • • • • • • • • • • •		•••••
3.	Mention two ways of meeting social needs of a pregnant woman	(2mks)
• • • • • • • • • • •		•••••
4. (2m	Explain giving an example, the meaning of a monochromatic colour so	heme.
•••••	•••••••••••••••••••••••••••••••••••••••	•••••
5.	State two points to consider when choosing a laundry brush.	(2mks)
•••••		•••••
6.	Give two conditions necessary for steam to act as a raising agent	(2mks)
	©2022 The Kenya National Examinations Council	

•••••	KCSE Predictions Marking Schemes - 0746 222 000	
7. (3ml	Identify three methods of finishing the edges of sleeves other than using ass)	u cuff
8.	Identify two ways of preventing umbilical cord infection at birth.	(2mks)
9.	State two reasons why foods are fortified	
10.	State two safety precautions to be exercised when handling calabastres	(2mks)
11.	Give two reasons why a kitchen should be well lit.	(2mks)
12.	Outline three qualities of a well made sleeve	(3mks)





13. (2mk	Give two reasons for an open and coarse texture in creamed cake mixture (xs)	es.
14.	What is the role of VCT in safe parenting.	(2mks)
15.	Give three methods used to attach collars to the neck line.	(3mks)
••••••		
16.	State the use of a water seal in a kitchen sink	(1mk)
•••••••		•••••
17.	What is simmering?	(1mk)
18. (1mk	Give two reasons why plastics are becoming more popular in homes toda	y.
19.	Name four improvised cleaning materials © 2022 The Kenya National Examinations Council	(2mks)

•••••		••••••	•••••		•••••	•••••	•••••
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20.	Choose a s	suitable one	course mea	l for an inv	alid.		(2mks)
••••••	SEC	TION E		ARKS) (COMPU	LSORY	••••••
22. You hav	ve been asked						
(a) De	escribe how	you will tho	roughly cle	an a hurrica	ane lamp to	be used in th	e
	evening						(9mks)
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(b) D	Describe how you will wash a nylon petticoat for your younger sister. (6n)	nks)
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	(c) Describe how you will thoroughly clean a chopping board. (5nd	nks)
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	SECTION C (40 MARKS) Answer any two questions in this section	
23.	(a) Give the functions of the following parts of a sewing machine	(5mks)
(i)	Stop motion screw	(SIIIAS)
(i) (ii)	Balance wheel	
(iii)	Feed dog	
(iv)	Bobbin case	
(v)	Slide plate	
(b)	Explain four factors that influence consumer buying.	(8mks)
(c)	Discuss three reasons why the use of charcoal should be minimized.	(32223)
(d)	What is food fortification?	(1mk)
		. /





24.	(a)	Suggest five sanitary practices that 2 to 5 year old child should be taught.	(5mks)
(b)	Explai	n five reasons for coating food before deep frying	(10mks)
(c)	State f	ive points to consider when preparing and cooking green vegetable	(5mks)
25.	(a)	List any five effects of moist yeast on starch	(5mks)
(b)	Give f	our limitations of complementary feeding	(4mks)
(c)	Which	five preparations will you carry out once fabric before cutting.	(5mks)
(d)	By use	e of three well labeled diagrams describe how you will make an overlaid sear	m
			(7mks)
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NAME	INDEX NO
SCHOOL	SIGN
DATE	

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

441/2

HOMESCIENCE

Paper 2

(CLOTHING CONSTRUCTION)

Time 2 1/2 Hours

A pattern of a child's dress is provided. You are advised to study the sketches, instruction and the layout carefully before you begin the test

MATERIAL PROVIDED

- 1. Patter pieces
 - A. Dress front
 - B. Dress back
 - C. Sleeve
 - D. Sleeve binding and ties
 - E. Sleeve opening
 - F. Collar
 - G. Front neck facing





- H. Back neck facing
- 2. Plain light weight cotton fabric 80 cm by 90 cm wide
- 3. Sewing thread to match the fabric
- 4. One large envelope

THE TEST

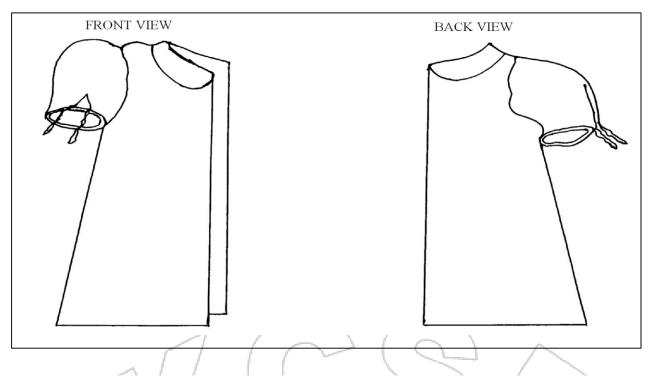
Using the material provided, cut out and make the LEFT HALF of a child's dress to show the following processes;

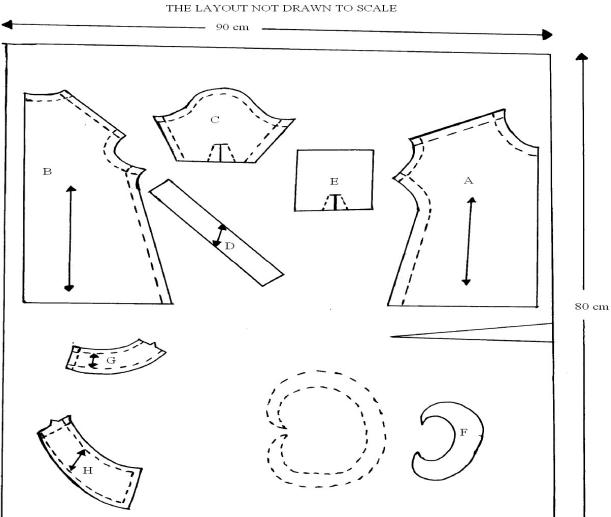
- a) Joining of the shoulder seam using a double stitched seam
- b) Joining of side seam using a French seam
- c) Joining off the front and back neck facing and neatening the free edge
- d) Preparation and attachment of an interfaced collar using the facings
- e) Preparation of the sleeve:
 - i) Making the opening
 - ii) Joining of the veteran seam using a French seam
 - iii) Attaching the binding and holding it using normal hemming(hem half the binding)
- f) Attaching the sleeve onto the garment
- g) Neatening half the armhole by overcastting.

At the end of the examination, firmly sew J on your work on a single fabric, a label bearing your name and index number. Remove needles and pins from your work then fold neatly and place it in the envelope provided. Do not pit scraps of fabric in the envelope.











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NAME	INDEX NO
SCHOOL	SIGN
DATE	

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

ISLAMIC RELIGIOUS EDUCATION

Paper 1

314/1

TIME: 2 ½ Hours

Instructions to candidates

- (a) Write your name and index number in the spaces provided.
- (b) Sign and write the date of examination in the spaces provided above.
- (c) This paper consists of six questions.
- (d) Answer any five questions on a separate answer sheet.
- (e) Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.
- (f) Candidates should answer the questions in English.

FOR EXAMINER'S USE ONLY

QUESTION	1	2	3	4	5	6	CANDIDATE'S TOTAL SCORE
CANDIDATE'S SCORE							





1.	(a) Explain SEVEN reasons why the Quran was revealed in portions.	(7 Marks)
	(b) Discuss the role of Angel Jibril in the revelation of the Quran.	(8 Marks)
	(c) State FIVE benefits for the introduction of diacritical marks in the Quran.	(5 Marks)
2.	(a) Explain the teachings of Surah Asr.	(5 Marks)
	(b) Discuss the vices condemned in Surah Hujra't.	(8 Marks)
	(c) Identify the features of the 'Madani Surahs'.	(7 Marks)
3.	(a) The Prophet (saw) is reported to have said: "Do not envy one another" Base	d on the
	above Hadith, explain how Muslims can reduce the effects of envy in the society.	(7 Marks)
	(b) Discuss the rules Imam Bukhari formulated in the collection and recording	g of the
	Hadith.	(8 Marks)
	(c) Give the themes mentioned in 'al-Muwatta' of Imam Malik.	(5 Marks)
4.	(a) Explain the 'Ahka'm Shariah' which a 'Mukallaf' is obliged to observe.	(8 Marks)
	(b) Discuss the rules of evidence that must be presented in the ruling of 'The	ft'(7 Marks)
	(c) Mention FIVE forms of punishment in 'Ta'zeer' in Islamic penal code.	(5 Marks)
5.	(a) Describe the contribution of Imam Ahmad ibn Hambal in Fiqh.	(5 Marks)
	(b) Explain the rights of the people in Islam.	(8 Marks)
		(7 Marks)
6.	(a) Discuss the THREE types of 'SHIRK' in Islam.	(9 Marks)
	(b) Explain the qualities of an Imam according to the Shiah doctrine.	(6 Marks)
	(c) State the stages people will undergo during 'Qiyamah' after the second tru	umpet.
		(5 Marks)





NAME	INDEX NO
SCHOOL	SIGN
DATE	

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

314/2

ISLAMIC RELIGIOUS EDUCATION

PAPER 2

TIME: 2 ½ HOURS.

Instructions to candidates

- (g) Write your name and index number in the spaces provided.
- (h) Sign and write the date of examination in the spaces provided above.
- (i) This paper consists of six questions.
- (j) Answer any five questions on a separate answer sheet.
- (k) Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.
- (l) Candidates should answer the questions in English.

FOR EXAMINER'S USE ONLY

QUESTION	1	2	3	4	5	6	CANDIDATE'S TOTAL SCORE
CANDIDATE'S SCORE							





1.	(a) Identify problems faced by families living with HIV/AIDS?	(6 marks)
	(b) Discuss Islamic teachings on a muslim home?	(8 marks)
	(c) Name some prohibited foods and drinks in Islam?	(6 marks)
2.	(a) State the rules observed in eddah?	(5 marks)
	(b) Explain the types of talaq?	(9 marks)
	(c) Outline the teachings on the treatment of the disabled?	(6marks)
3.	(a) State how Islam encourages chastity?	(6 marks)
	(b) Discuss how a muslim can show respect for life today?	(14 marks)
4.	(a) List the significance of the medina constitution?(b) Explain the contribution of Ali bin Abi Twalib during the prophet	(5 marks) 2 p.b.u.h time?
	(10 marks) (c) Give the lessons learnt in the migration to Abysinia?	(5 marks)
5.	(a) Give reasons why the coastal people were against the Portuguese?(b) Explain the roles of the city states in East Africa?	(5 marks)
	(10 marks) (c) What facilitated the spread of Islam in East Africa?	(5 marks)
6.	(a) Outline the achievements of the Umayad dynasty?	(6 marks)
	(b) Give a brief biography of Uthman Dan Fodio?	(14 marks)





NAME	INDEX NO
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Kenya Certificate of Secondary Education (K.C.S.E)

501/1

FRENCH

PAPER 1

(Listening Comprehension, composition & dictation)

TIME 2 ½ HOURS

INSTRUCTIONS TO CANDIDATES

- ❖ Answer section 1 (Dictation) II(Listening Comprehension) in the spaces provided on the question paper
- ❖ Answer section **III** in the booklet provided.





SECTION 1

LISTENING COMPREHENSION

PASSAGE 1

1.	On parle dans le texte d'un repas. Nommez deux ingredients qu'on va utiliser pour preparer
	ce repas.
	(i) (½ point)
	(ii)(½ point)
2.	A quel moment de la journée est qu'on va servir?
3.	De quel nationalité est la personne qui propose le repas?
4.	A quoi ressemble le foufou, selon le texte
5.	Selon le texte pour être robuste, il faut manger le
	PASSAGE II
6.	Le programme "sveltesse" est destiné aux femmes qui veulent:
	(i) (½ point)
	(ii) (½ point)
	(iii)
7.	A quel numéro faut-il téléphoner? et quand? et
	(1point)





PASSAGE III

8.	Il s'agit dans ce texte d'une personne quiun emploi. (½
	point)
9.	Quelle activité cette personne a-t-elle menée
	(a) en France? (½ point)
	(b) à Madagascar? (½ point)
10	Quelle est la profession de la personne?
11	De quel pays vient-elle cette personne? (½ point)
	PASSAGEIV
12	Quel est le produit dans cette publicité?
	(½ point)
13	. Où peut-on l'acheter?
	(½ point)
14	Combien de fruits tropicaux y'a-t-il dans ce produit?
	(½ point)
15	Quel prix peut-on gagner? (½ point)
	PASSAGE V
16	. (a) De quelle produit s'agit-il dans ce texte (½ point)
	(b) Quel est le nom de ce produit? (½ point)
	(c) On présente ce produit comme un
	17. Donnez deux terrains mentionnés dans le texte:
	(1 point)





PASSAGE IV

PASSAGE IV
18.Le week-end du Noël il feraavec de temperatures
dedegrés. Les seront humides et les soirs, il y aura
des mais pendant la nuit il fera
$(2\frac{1}{2} \text{ points})$
SECTION II
DICTATION

SECTION III

COMPOSITION

Write your two compositions in the pages provided.

1. In 120-150 words, write in French on.





Either,

_		`
•	a	١
١.	а	,

Compagnie NANTES

cherche une secretaire tri-lingue

pour leur nouvelle compagnie à Eldoret.

Experience: 5 ans

Connaissance d'informatique Obligatoire.

Disponibilite: Immédiate.

Vous cherchez un emploi, écrivez votre Curriculum Vitae pour ce poste-là. (10 points)

Or

(b) Écrivez la recette de votre repas favori.

(10 points)

- 2. Write a composition in French of between 150 and 180 words on:
- (a)Begin as follows.

points)

(b) Qu'est-ce que vous pensez du sport? Joue-t-il un rôle important dans la vie des kenyans? Discutez. (15 points)





NAME		INDEX NO
SCHOOL	•••••	SIGN
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Kenya Certificate	e of Secondary E	ducation (K.C.S.E)
READING CO	FRENC PAPER 2 MPREHENSION	H N AND GRAMMAR
	TIME:1 ½ HOU	7)
INSTRUCTIONS TO	CANDIDATES	
a) Write your name and inde	x number in spaces provided	d.
b) This paper contains TWO	sections.	
c) Answer all questions in the	e spaces provided.	
FOR EXAMINERS USE		
SECTION	MAXIMUM SCORE	CANDIDATES SCORE
<u>I</u>	15	
<u>II</u>	15	
TOTAL	30	1





READING COMPREHENSION

PASSAGE 1

Puisque tu as maintenant un petit chien, il faudra en prendre grand soir. D'abord, tu feras mieux de le faire vacciner contre le rage, parce que c'est une maladie terrible et il pourrait bien en mourir. Le matin après lui avoir donne de la viande avec des os et des légumes à manger, joue avec lui. Les petits chiens aiment surtout jouer avec des os, qui rendent leurs dents fortes. Deux fois, tu devras lui donner un bain pour que les insectes ne restent pas sur lui. Des aujourd'hui, tu peux lui apprendre à t'obéir .Ce sera difficile au début, mais ce n'est pas une raison pour te décourager. Tu sais un chien obéissant sera très utile .Si tu prends grand soin de ton chien, il sera un excellent ami.

Questions a) Donnez un titre a ce texte.	(1 point)
b) Comment peut-on prendre soin de son chien ?	(4 points)
i)ii)	
iv)	(0.5 points)
d) Qu'est-ce qu'on doit apprendre le chien ? Pourquoi ?	(1 point)





PASSAGE 2

Nakuru, le

20 octobre 2018.

Jean Luc Zeder,

Representant Rhone-Alpes,

Boite postale 50,

00200-G.P.O.

NAKURU-KENYA.

RASHID,

M.ABDULAHI

Horticulteur,

Boite postale 14756,

OBOCK-DJIBOUTI.

Cher collègue,

En réponse à votre lettre du 10 octobre 2018, je vous adresse par ce courrier le catalogue des produits de notre fabrication. J'espère que vous y trouverez un produit qui vous convient.

Je reste à votre disposition pour vous annoncer l'exposition publicitaire qui sera organisée dans votre région au début de l'année prochaine .J'espère avoir le plaisir de vous rencontrer pendant cette vente publicitaire et de visiter vos nouvelles installations.

Dans cette attente, je vous prie de croire, cher collègue, a l'expression de mes sentiments cordiaux.

Jean Luc Zeder

QUESTIONS



a) Qui est l'expéditeur de cette lettre ?	(1 point)
b) Qui est le destinataire de cette lettre ?	(1 point)
c) L'auteur dit « dans cette attente »Dans l'attente de quoi ?	(1 point)
PASSAGE 3 Le Kenya a deux langues officielles : le Kiswahili et l'anglais. Il y existe quarantaine de langues vernaculaires. Dans les villages, il existe des pers que les langues vernaculaires. Ce sont ceux qui n'ont pas eu la chance d'l'école. Il y a les endroits ou l'on n'a pas d'autres langues sauf le Kiswah Kenya peut communiquer de l'un de l'autre n'importe comment. Le frandeux langues enseignées dans le pays mais dans quelques écoles national	onnes qui ne parlent assister les cours à tili. Tout le monde au açais et l'allemand les
QUESTIONS a) Combien de langues sont obligatoires au Kenya? Lesquelles?	(1 point)
b) Pourquoi y a-t-il des personnes parlant seulement leur langue vernacul	-
c) Donnez un mot pour dire « deux langues »	(0.5 point)
d) Quelles autres langues peut-on parler au Kenya ? i)	(1.5 points)
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ii)	
iii)	
PASSAGE 4	
Au nord du Kenya, dans la région du Wajir, des collectionneurs en ouvrir des tombes scellées contenant des antiquités que même les rijamais rencontrés.	
«On ne trouve plus de Vigangus, » ces cimetières de la tribu Mijik dans leur zone d'origine. En revanche, il y en a pleines les musées dit George Abungu, le directeur des musées nationaux du Kenya. Na archéologiques non protégés sont des cibles faciles, les musées afride lourdes pertes lors de raids perpètre par des voleurs souvent pui attaquer et a tuer a tout gardien osant s'opposer a eux. George Abungu accuse des collectionneurs fortunes, des diplomat musées d'Europe et d'Amérique de promouvoir le trafic en pro me semblent fabuleuses a des communautés africaines pauvres et a des scrupules. Toutefois, ajoute-t-il, les gouvernements africains sont la protection, la conservation ou la préservation du patrimoine cult comme des priorités. Questions	d'Europe et d'Amérique ? Mais tandis que les sites icains subissent eux aussi ssamment armes et prêt a es ainsi que certains ettant des sommes qui s revendeurs locaux sans eux aussi a blâmer : jamais turel n'ont été considérées
a) Comment ce collectionneurs obtiennent-ils les antiquités au nord	d du pays et pourquoi est-il
facile d'accéder des sites archéologiques ?	(1 point)
b) Comment les musées sont-ils aussi affectes ?	(1 point)
•••••••••••••••••••••••••••••••••••••••	•••••
c) Comment ces collectionneurs-voleurs arrivent-ils a convaincre le	es communautés locales à
collaborer avec eux ?	(1 point)
	•••••





d) Complétez : Pour arrêter ce trafic, les gouvernements africains devraient (1.5 points)
•••••••••••••••••••••••••••••••••••••••
•••••••••••••••••••••••••••••••••••••••
<u>GRAMMAR</u>
Beginning as indicated rewrite the sentences below making all the necessary changes.(7 points)
Exemple: Le mois prochain nous allons voir un film.
Il y a quelque jours
Il y a quelque jours nous sommes allés voir un film.
i) Ne boivent –elles pas de bière ?
Si,\\
ii) Il pleut dehors mais il faut partir toute de suite pour planter des abres.
Malgré
iii) Elle me dit : « Ne prends pas de bus ! »
Qu'est-ce qu'elle me dit ?
Elle me dit
iv) Vous avez beaucoup de problèmes mais vous restez confiants.
Bien que
v) Avez-vous quelquechose de bon à nous dire ?
Non,
vi) Marie a écrit cette lettre.
Cette lettre
vii) Nous habitons ici depuis deux ans.
Cela fait
2) Fill in the blanks with only one word.





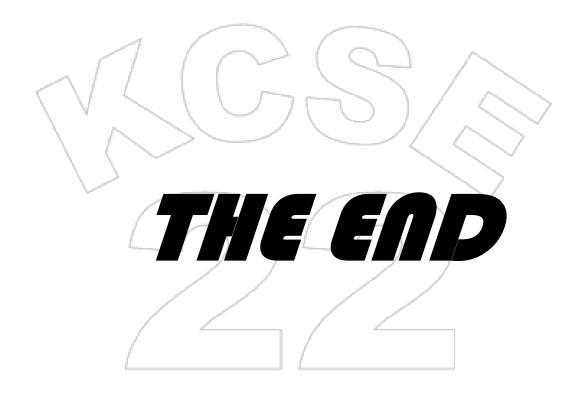
C'répondta lettre arrivée depuis deux moiste plains sans cessemon retardte répondre. Tu sais tres bienje ne saislire, ni
écrire .Depuis qu'on parle
3) What would you say for each of the situations below?
a) Que dites-vous a quelqu'un qui va essayer un exploit difficile ?
b) Vous commandez quelquechose a l'hotel.
c) A quelqu'un qui est malade, que dites-vous ?
d) Vous assistez à une occasion de naissance .Vous dites ?
e)Monsieur le Président arrive dans votre école pour la première fois. Vous dites ?
f) A un ami qui a rate le train?















POLITE NOTE:

TO ALL KCSE 2022 CANDIDATES;

Incase a Significant Number of these
Questions Appear in KCSE Exam, Don't
panic!

TAKE IT EASY





FOR MARKING SCHEMES CONTACT

0746 222 000

kcsepredictions@gmail.com

Mr Isaboke-Mwalimu Agency.

TOALL
KCSE 2022 CANDIDATES









