KCSE 2022 PREDICTION



ALL SUBJECTS



SERIES 1

SUBJECTS PREDICTED;

Mathematics, English, Kiswahili, CRE, Geography, History, Biology, Chemistry, Physics, French, Agriculture, Business, Computer, Home-Science &IRE.

1st Series of Top Analyzed Possible Testable Questions/ Areas Predicted by Experienced Examiners in National Schools within the KNEC Set-up expected in November 2022.

CONFIDENTIAL!

FOR MARKING SCHEMES/ANSWERS

CALL/WHATSAPP 0746 222 000

SUCCESS TO ALL CANDIDATES!

KCSE 2022 PREDICTION

SERIES 1

NAME	INDEX NO
SCHOOL	SIGN
DATE	
231/1	
BIOLO (THEORY) PAPER 1 TIME: 2 HOUR	
Instructions to candidates	
1. Write your name, index number and the name of your sc	hool in the spaces provided above.
2. Sign and write the date of examination in the spaces prov	ided above.
3. Answer all questions in this question paper.	

For Examiner's Use Only

QUESTIONS	MAXIMUM SCORE	CANDIDATE'S SCORE
1-29	80	

Answer All the Questions

1.	Identify the characteristics of living organisms shown by the following;	(2marks)
a)	Bursting of the sporangium in Rhizopous.	
		•••••
		•••••
b)	A cheetah chasing after a gazelle.	
	••••••	•••••
	••••••	•••••
2.	Define the following terms as used in biology;	
i.	Entomology.	(1mark)
		(======================================
ii.	Histology.	(1mark)
	Thistoriegy.	(11114111)
••••		•••••
••••		•••••
3.	State three significance of Osmosis to plant nutrition.	(2montes)
3.	State three significance of Osmosis to plant nutrition.	(3marks)
••••		•••••
••••		•••••
••••		•••••
_		
4.	The diagram below represents amoeba. Study it and answer the questions that	follow;
	1-711 3-2	
	A CASSIC CONTRACTOR AND TAXABLE AND RESIDENCE OF A CASSIC CONTRACTOR AND A CAS	





a)	Name the respiratory surface found in the above organism.	(1mark)
b)	f i. Identify the structures labeled $f J$.	(1mark)
ii.	State two functions of the structure named in (b) (i) above.	(2marks)
• • • • •		•••••
5.	Below is a diagram of a mammalian cell. Study it and answer the questions that Cytoplasm Cell memb	
a) Io	dentify the structures labeled;	(2marks)
	•••••••••••••••••••••••••••••••••••••••	
b) S	tate the function of the structure labeled M .	(1mark)
•••••		•••••





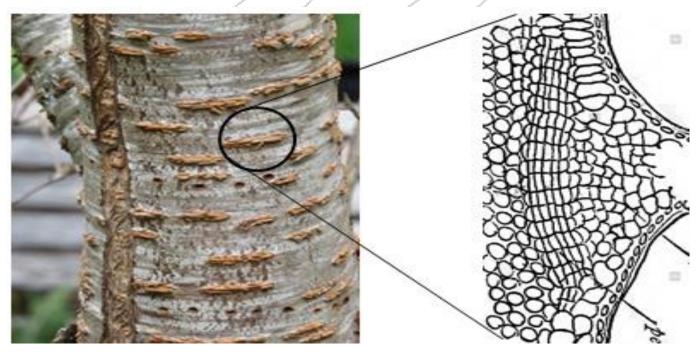
6.	Give two roles of the colon in human digestive system.	(2marks)
•••••	•••••••••••••••••••••••••••••••••••••••	•••••
7.	Distinguish between dentition and dental formula.	(2marks)
•••••		
8.	Name a carbohydrate that is abundance in the following;	
a.	Ripe fruits.	(1mark)
b.	Blood of vertebrates.	(1mark)
••••		•••••
9.	Apart from photosynthesis identify one other function of chloroplast in plants.	(1mark)
••••		•••••
••••		•••••
10.	Below is a transverse section of a root. Study the diagram and answer the question	n that
follow	/8.	
	Cortex	





a)	Identify the class from which the section was obtained.	(1mark)
b)	Give a reason for your answer in (a) above.	(1mark)
c)	State one adaptation of endodermis to its function.	(1mark)
d)	Name two tissues found in the cortex.	(2marks)
11.	Distinguish between Guttation and transpiration.	(2marks)
•••••		••••••

12. During a field study, students from Kenya high school found a woody plant as illustrated below.





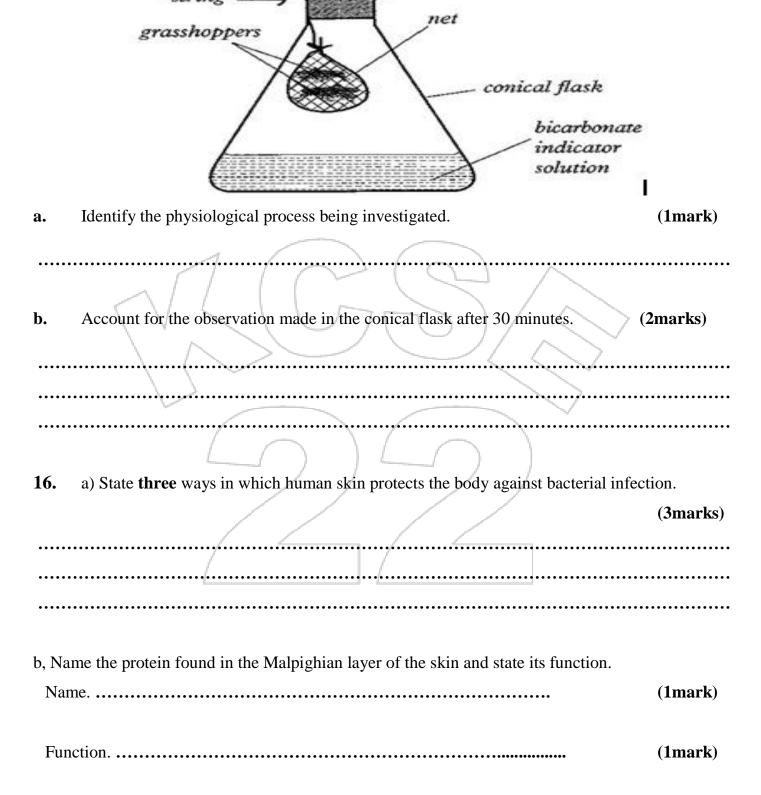


a)	Identify the above structure.	(1mark)
b)	Give two adaptations of the structure named in (a) above.	(2marks)
••••		
•••••		
c)	Where is the above structure located in halophytes?	(1mark)
13.	State two structural differences between a cell wall and a cell membrane.	(2marks)
•••••		
14. i)	a) Identify the cells that secrete the following along the alimentary canal. Hydrochloric acid.	(1mark)
ii)	Rennin.	(1mark)
b.	State two significance of smooth muscles in the digestive system.	(2marks)
••••		••••••





15. During an investigation of a certain metabolic reaction, students set up the apparatus as shown below.



17. A student mixed a sample of urine from a person with Benedict's solution and heated, the colour changed to orange.



a) \ 	What did the student conclude on the health status of the person?	(1mark)
 b) V	Which organ in the person may not be functioning properly?	(1mark)
18.	An investigation was carried out on a mammalian kidney.	T
i. 	Name the structure labeled T.	(1mark)
ii. 	What is the function of the structure named in (i) above in the kidney.	(1mk)
 iii.	Identify the disease shown in the kidney above.	(1mark)





19.	KCSE Predictions Marking Schemes - 0746 222 000 State the importance of saprophytic fungi in an ecosystem.	(1mark)
20.	List two assumptions made when using Capture-recapture as a method of estimat ation.	ing (2marks)
 21.	Give two reasons why Pteridophytes are considered more advanced than Bryoph	ytes.
••••		(2marks)
22.	Study the diagram below and answer the following questions.	•
		} R
		5
a)	State the function of the part labeled Q .	(2marks)





b)	State the role of the part labeled R .	(1mark)
c)	Identify a hormone produced by part labeled P .	(1mark)
23.	Give the function of Prolactin in female reproductive cycle.	(1mark)
24.	Below is a photograph illustrating a germinating seedling.	<u></u>
	H	W
a)	Identify the type of germination.	(1mark)
b)	Give two functions of the structure labeled Z ?	(2marks)
c)	What the name given to the part labeled \mathbf{W} ?	(1mark)
d) 	Explain how seedling H responds to light causing it to straighten.	(2marks)
••••		•••••





25	KCSE Predictions Marking Schemes - 0746 222 000	
25.	a) Define vestigial structures?	(1mark)
•••••		
b) Sta	ate two examples of vestigial structures in man.	(2marks)
••••		• • • • • • • • • • • • • • • • • • • •
26.	The figure below shows some cells from parts of mammalian respiratory tract.	•••••
	cell membrane nucleus	e
a.	Identify the part of the respiratory tract where the cells were obtained from.	(1mark)
b.	Explain the role of:	(2marks)
i.	The mucus	(2 2/
• • • • •		•••••••
ii.	The cilia.	•
•••••		
27.	Mycorrhiza is a symbiotic association between two organisms. Name the two organisms	anisms that
make	this association. (2mar	·ks)





28.	State the significance of diffusion in the following;	
a.	Pollination.	(1mark)
 b.	Skeletal muscle cell.	(1mark)
••••		
 29.	Explain the significance of the following;	••••••
a)	The cardiac muscle is myogenic.	(1mark)
••••	7/02/01	
b)	The left ventricle of a mammalian heart is more muscular than right ventricle.	(1mark)
••••		• • • • • • • • • • • • • • • • • • • •
c)	Most of carbon (IV) oxide is not dissolved in the blood plasma.	(1mark)
••••		• • • • • • • • • • • • • • • • • • • •

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KCSE 2022 PREDICTION

SERIES 1

NAME	INDEX NO
SCHOOL	SIGN
DATE	

231/2

BIOLOGY

PAPER 2 THEORY 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 spaces provided above.
- This paper consists of two sections A and B.
- Answer all the questions in Section A in the spaces provided.
- In section **B** answer questions **6** (**compulsory**) and either question **7** or **8** in the spaces. provided.

FOR EXAMINER'S USE ONLY

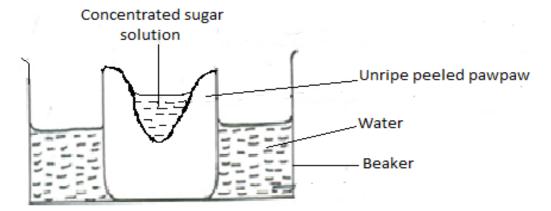
SECTION	QUESTION	MAX SCORE	SCORE
A	1	8	
	2	8	
	3	8	
	4	8	
	5	8	
В	6	20	
	7	20	
	8	20	
	TOTAL	80	





KCSE Predictions Marking Schemes - 0746 222 000 SECTION A

1) A group of students set up an experiment to investigate a certain physiological process. The set up was as shown in the diagram below.

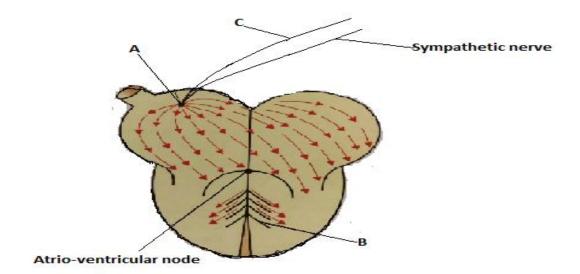


After some time, the students observed that the level of sugar solution had risen. What physiological process was being investigated? (1mk) (a) Account for the rise in the level of sugar solution in this experiment. (4mks) **(b)** (i) State the results the students would obtain if they repeated the experiment using a piece of **(c)** boiled pawpaw. (1mk)(ii) Give a reason for your answer in (c) (i) above. (2mks)





2) Use the diagram below to answer the questions that follow.



(a)	(i) Name the parts labelle	ed A, B and C.			(3mks)
••••	\triangle / \langle				
••••	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		(\bigcirc)		
(b)	State the function of the p	oart labelled C .			(1mk)
••••		\bigcap			
(c) 	Explain the difference be	tween pulmonary	circulation and s	systemic circulation.	(2mk)
••••		•••••	•••••	•••••	
(d) V	Vhat is the advantage of hav	ing a double circ	culatory system ov	ver a single circulator	y system? 2mks)
••••	••••••	• • • • • • • • • • • • • • • • • • • •	••••••••	•••••••	••••••





In an investigation, a variety of pea plants grown from seeds with smooth coats were crossed

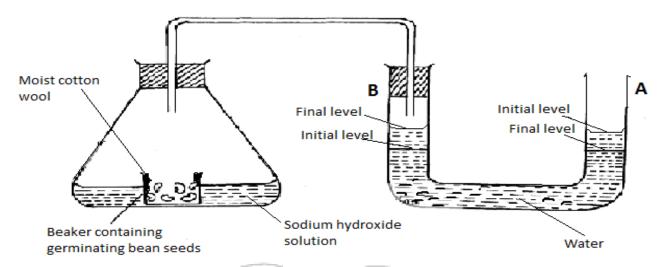
with plants grown from seeds with wrinkled coats. All the seeds obtained in the first filial (F1)	
generation had smooth seed coats.	
(a) Using letter \mathbf{R} to represent the gene for smooth seed coat, work out the genotypes of the	
F1generation. Show your working. (3mks	s)
••••••••••••••••••••••••••••••••••••	•••••
•••••••••••••••••••••••••••••••••••••	•••••
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•••••••••••••••••••••••••••••••••••••	•••••
	••••
7 7 - 7 7 - 7	••••
	••••
	•••••
(b) If F1 generation was selfed, determine the phenotypic ratio of the second filial (F2)	
generation. Show your working. (4mks	s)
generation. Show your working. (4mks	s)
generation. Show your working. (4mks	s)
generation. Show your working. (4mks	s)
generation. Show your working. (4mks	s)
	s)
generation. Show your working. (4mks	s)
	s)
	s)
	s)
	s
(c) If the total number of seeds in the F2 generation was 14640, calculate the number of seed	s



3)



4) The apparatus below was set up by a student to find out the changes in gases during germination of bean seeds. Study it and answer the questions that follow.



(d) After 48 hours the level of water in U-tube A had dropped and rose in B as ind	icated above.
Explain this observation.	(3mks)
(e) The equation below shows the process that takes place in mammalian muscles.	
$2C_{51}H_{98}O_6 + 145O_2 \longrightarrow 102CO_2 + 98H_2O + Energy$	
Calculate the respiratory quotient from the equation above.	(2mks)
	•
	•
Identify the substrate being respired from the equation above.	(1mk)
Explain why it is difficult to calculate the respiratory quotient in plants.	(2mks)
•••••••••••••••••••••••••••••••••••••••	• • • • • • • • • • • • • • • • • • • •
•••••••••••••••••••••••••••••••	• • • • • • • • • • • • • • • • • • •





2) The diagram below illustrates the components of a simple reflex that takes place when a person's finger is accidentally pricked by a sharp pin.

Pricked finger	White matter	
		Grey matter
(a) Name the neurones labelled X and Y .		(2mks)
(b) State one function of the fluid found in the part labell	led Z.	(1mk)
/////		
(c) Explain how the above simple reflex action takes place		(5mks)
•••••		
••••••		





SECTON B (40 MKS)

Answer question 6 (compulsory) and either question 7 or 8

6) In a population growth, two species of flour beetles, *Tribulum confusum* and *Tribulum casteanum* were grown in a box with unlimited supply of flour (food). The box was kept at 24°C and 30% relative humidity. The beetles were counted at certain intervals and the results tabulated as shown below.

No. of days after	introduction	0	10	50	60	80	100	120	140	180	200
No. of beetles	T. confusum	20	20	300	800	1330	1440	1620	1600	1620	1600
present in the box	T. casteanum	20	20	300	430	500	400	150	60	20	10

Using the same axis, draw graphs of number of beetles in the box against time. (8mks) (a)





(b)	How many beetles were present on the 76th day?	(2mks)
T.co	onfusum	
T.ca	ısteanum	
(c)	Account for the shape of <i>T. confusum</i> curve between day 1 and 180.	(5mks)
••••		
••••		
••••		• • • • • • • • • • • • • • • • • • • •
••••	••••••••••••••••••••••••••••••••••••	• • • • • • • • • • • • •
••••		• • • • • • • • • • • • •
••••		• • • • • • • • • • • • •
••••	1 (0) (0) 1	• • • • • • • • • • • • •
(d)	(i) What happens to <i>T. casteanum</i> between day 80 and 160?	(1mk)
(u)	(i) What happens to 1. custeman octween day of and 100:	(IIIK)
••••		• • • • • • • • • • • • • • • • • • • •
••••		• • • • • • • • • • • • • • • • • • • •
(ii)V	What biological phenomenon is represented by observation in (d) (i) above?	(1mk)
(11) V	what biological phenomenon is represented by observation in (d) (i) above:	(IIIK)
••••	······································	• • • • • • • • • • • • • • • • • • • •
(a)	Ctate only through a to use that determine the distribution of animals in their helitate	(2l-a)
(e)	State any three factors that determine the distribution of animals in their habitat.	(SIIIKS)
••••		
••••		• • • • • • • • • • • • • • • • • • • •
••••	••••••	
7)	(a) Explain have the human ilaum is adopted to its function	(10mlra)
7)	(a) Explain how the human ileum is adapted to its function.	(10mks)
	(b) Explain the role of the liver in regulation of blood sugar.	(10mks)
8)	(a) Explain the economic importance of fungi.	(9mks)
	Describe the adaptations of flowers to insect pollination.	(11mks)





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KCSE 2022 PREDICTION

SERIES 1

CCIIOOI	CION
SCHOOL	SIGN

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;

- Specimen **R** a piece of ripe pineapple fruit
- ❖ 2mls Benedict's solution placed in a test tube with a dropper
- ❖ 2mls of 10% Sodium hydroxide solution placed in a test tube with a dropper
- 2mls of 1% Copper sulphate solution placed in a test tube with a dropper
- Source of heat
- ❖ 4 test tubes in a rack
- 2 Droppers
- Scalpel/Razor blade
- Pestle and mortar
- Filter paper
- ❖ 4mls DCPIP solution placed in a small beaker with a dropper
- ❖ 4mls of 0.1% solution of Ascorbic acid supplied in a test tube
- White tile

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KCSE 2022 PREDICTION

SERIES 1

NAME	INDEX NO
SCHOOL	SIGN
DATE	

Kenya Certificate of Secondary Education

231/3

BIOLOGY

(Practical)

Paper 3

Time: 1 ¾ hours

INSTRUCTIONS TO CANDIDATES

- ❖ Write your name, Admission number and your other details in the spaces provided above.
- Spend the first 15 minutes of the time allocated to read through the question paper before commencing your work
- * Answer all the questions in the spaces provided.
- Additional pages must **not** be inserted

FOR EXAMINER'S USE ONLY

Question	Maximum Score	Candidate's Score
1	14	
2	14	
3	12	
Total Score	40	





You are provided with the following reagents and materials.	
Specimen R	
Benedict's solution	
Sodium hydroxide solution	
Copper sulphate solution	
Source of heat	
3 test tubes in a rack	
Droppers	
Scalpel/Razor blade	
Pestle and mortar	
Filter paper Study the specimen R provided.	
(a) Identify the type of fruit. (1 ma	rk)
	· • • • •
(b) With reasons, identify the method of dispersal for the specimen. Method of dispersal (1 max)	rk)
Reasons (2 marks)	
•••••••••••••••••••••••••••••••••••••••	••••
(c) By use of the scalpel provided, peel off the outer cover of the specimen $\bf R$ to reveal the inner $\bf j$	
(c)By use of the scalpel provided, peel off the outer cover of the specimen \mathbf{R} to reveal the inner just. Extract a small portion of the juicy part, place in a mortar and mash it using a pestle.	juicy





Use the reagents provided to test for the food substances present in portion 1. Use the table below as a guide. (6 marks)

Food substance	Procedure	Observation	Conclusion
	1100		
\ '			
			\vee

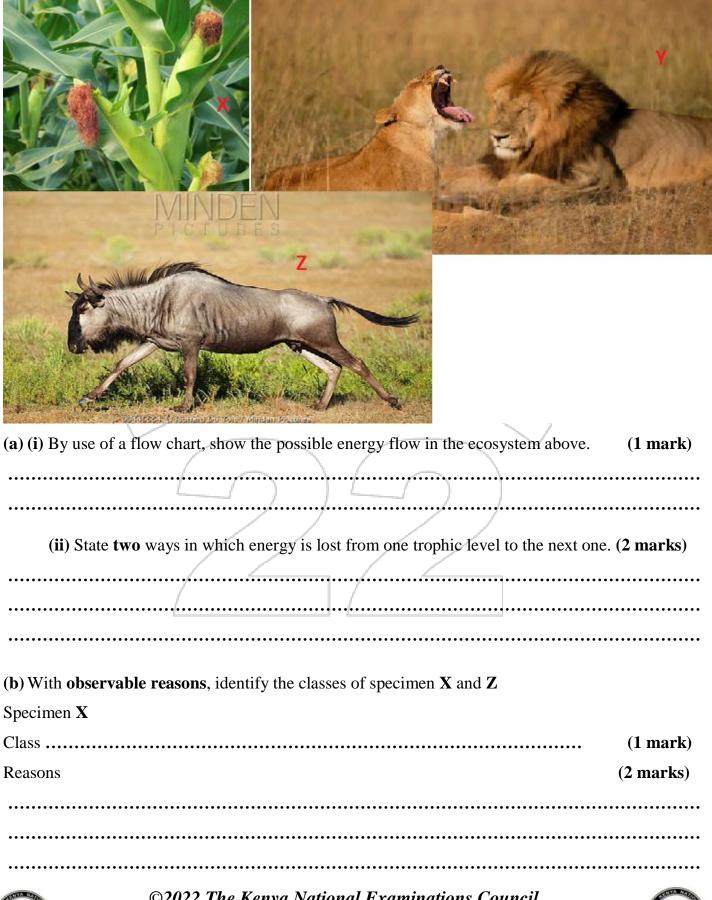
PORTION TWO

in a test tube, add 0.1%	solution of Ascorbic act	d drop by drop until
ppears. Shake the test tub	e after addition of each	drop. Record the number of
		(1 mark)
<u>/</u>	/	
of DCPIP in a test tube a	dd the portion two drop	by drop, shaking the test
h drop until the colour of	DCPIP disappears. Reco	ord the number of drops
		(1 mark)
	•	rage of Ascorbic acid in the (2 marks)
•••••		
	of DCPIP in a test tube ach drop until the colour of ined in (d) (i) and (ii) about men R . Show your working	of DCPIP in a test tube add the portion two drop th drop until the colour of DCPIP disappears. Recoined in (d) (i) and (ii) above, calculate the percent timen R . Show your working





2. Study the photographs below and answer the questions that follow.







Specimen Z	
Class	(1 mark)
Reason	(1 mark)
	•••••
(c) Describe two adaptations of organism labeled Y to its habitat.	(2 marks)
	•••••
(d) Study the photograph below and answer the questions that follow.	(1 mark)
T	
(i) Which part of the plant is represented by the cross-section shown above	
	,

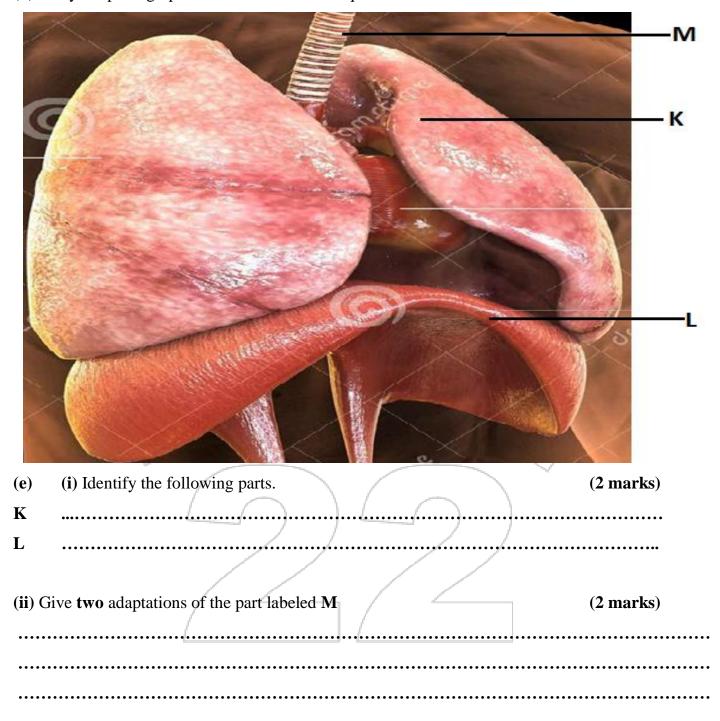


(ii) G	rive two observable reasons for your answer in (d)(i) above.	(2 marks)
 (iii)	Give one adaptation of the part labeled ${f T}$ to its function.	(1 mark)
3. S	tudy the photographs below and answer the questions that follow.	
(a) F	Identify the following parts	(2 marks)
	(i) Identify the secretions stored in part labeled G	(1 mark)
	Give two functions of the secretions you have identified in (b)(i) above.	(2 marks)
(c)	(i) Give two major roles of the part labeled ${f J}$.	(2 marks)
	tate the hormone secreted by the part labeled $oldsymbol{H}$.	(1 mark)
••••	••••••	•••••





(d) Study the photograph below and answer the questions that follow.



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KCSE 2022 PREDICTION

SERIES 1

NAME	INDEX NO
SCHOOL	SIGN
DATE	

Kenya Certificate of Secondary Education 233/1

CHEMISTRY

Paper 1 2 hours

INSTRUCTIONS TO CANDIDATES

- (a)Write your name and index number in the spaces provided above.
- (b) Sign and write the date of examination in the spaces provided above
- (c) Answer ALL the questions in the spaces provided in the question paper
- (d) KNEC Mathematical tables and electronic calculators may be used for calculations
- (e) All working MUST be clearly shown where necessary
- (f) Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing
- (g) Candidates should answer the questions in English

FOR EXAMINER'S ONLY

QUESTION	MAXIMUM SCORE	CANDIDATES SCORE
1-28	80	





KCSE Predictions Marking Schemes - 0746 222 000 Answer ALL the questions in the spaces provided

1. In the industrial preparation of oxygen, state:	
(a) How dust particles are removed from air.	(1 mark)
	••••••
	••••••
(b)Why carbon (IV) oxide is removed before the mixture is cooled to -25° C	(1 mark)
	••••••
•••••••••••••••••••••••••••••••••••••••	,
2. A form four student accidentally mixed Sodium Carbonate and Calcium Carbonate	·.
Describe how he would obtain a dry sample of Sodium Carbonate from the mixture.	
	<u> </u>
	•••••
	••••••
3. The set up below was used to prepare dry hydrogen gas. Study it and answer the	e questions tha
Follow. Hydrochloric	
acid Cardboard	
Zinc granules ————————————————————————————————————	
(i) Identify a mistake in the set up	(1 mark)
	•••••
••••••••••••••••••••••••••••••	• • • • • • • • • • • • • • • • • • • •





(ii) Write an equation for the reaction for the reaction that produces hydrogen gas	(1 mk)
(iii) State the chemical test for hydrogen	(1 mark)
4. When air is bubbled through pure water (pH 7), the pH drops to 6.0.Explain	(2mks)
	••••••
5.Explain why iron III chloride is fairly soluble in methylbenzene while Magnesium chlomsoluble.	oride is (2 mks)
	•••••
	• • • • • • • • • • • • • • • • • • • •
6.Describe how a solid sample of Lead(II) Chloride can be prepared using the following Reagents:Dilute Nitric Acid, Dilute Hydrochloric Acid and Lead Carbonate.	(3marks)
7. 50cm ³ of Carbon (IV) Oxide diffuses through a porous plate in 15 seconds. Calculate that each by 75cm ³ of Nitrogen (IV) Oxide to diffuse through the same plate under similar co $(C = 12, 0 = 16, N = 14)$	enditions. (2marks)
	• • • • • • • • • • • • • • • • • • • •





KCSE Predictions Marking Schemes - 0746 222 000	
8.(a).Carbon (IV) oxide is bubbled through Calcium hydroxide until there is no	o further change.
Explain using equations the changes observed.	(2 marks)
•••••••••••••••••••••••••••••••••••••••	
(b) Explain why diamond is used in cutting of glass and drilling.	(1 mark)
9. Study the table for certain properties of substances A, B, C and D.	
Melting point ⁰ c Solubility in water Electrical conduct	

	Melting point ⁰ c	Solubility in water	Electrical conduct
	$\gamma / \ell = 0$		
A	√ -119°c	Soluble	Solution does not conduct
В	1020°c	Soluble	Solution conducts
С	1740°c	Insoluble	Doesn't not conduct
D	1600°c	Insoluble	Conducts at room temperature

Which of the substances A, B, C and D:

(4 mks)

- **(i)**
- Has a simple molecular structure..... (ii)
- Has a giant ionic structure..... (iii)
- Has a giant covalent structure..... (iv)
- 10.A compound G reacts with 2 moles of bromine to form another compound whose structural formula is.

i) What is the formula and name of compound G

(2 marks)



KCSE Predictions Marking Schemes - 0746 222 000		
ii) State the observations made when acidified potassium chromate (VI) is added to	o compound G	
	(1 mark)	
11.Study the set-up below and answer the questions that follow		
Sodium sulphite Sodium sulphite	A gas jar Red litmus pape gas x	
(a) Identify gas	(1 mark)	
(b)Write an equation for the reaction that produces gas x.	(1 mark)	
(c) What is the effect of the gas \mathbf{x} above on the red-litums paper	(1 mark)	



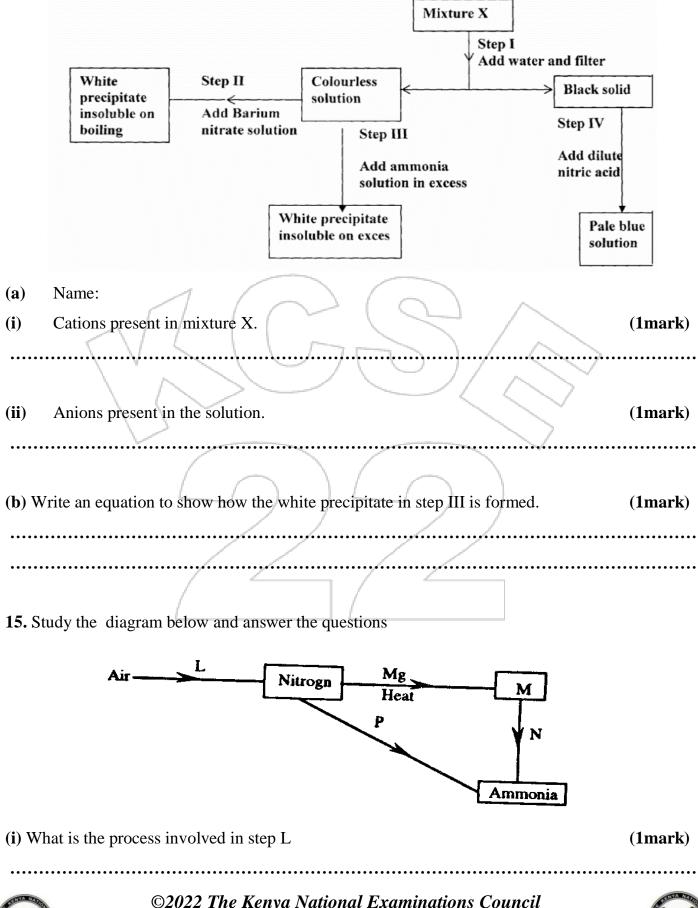


_		s made when hydrogen sulphide is l	_
ntaining iron (III)	chloride.		(2mks)
•••••	•••••		•••••
•••••	•••••		
•••••	•••••	••••••	•••••
•••••	•••••	•••••	•••••
2. Aluminium (III)	chloride sublimes	. Explain why this is possible.	(2mks)
•••••	•••••	•••••	•••••
•••••	•••••	•••••	•••••
•••••			
•••••	.,	,,,,,,,,,,	<u></u>
	// ((
3. The table below	shows the solubili	ty of a substance at various tempera	tures. Study it and answe
e questions that fol	llow.		
* \			/
Temperature (Solubility in g/100g of water	<u> </u>
\		Solubility in g/100g of water 36	
Temperature (⁰			
Temperature (⁰		36	
Temperature (⁰ 0 40		36	
Temperature (⁰ 0 40 80 110		36 30 25 20	(1 mark)
Temperature (⁰ 0 40 80 110		36 30 25 20	(1 mark)
Temperature (⁰ 0 40 80 110	ning of solubility?	36 30 25 20	(1 mark)
Temperature (⁰ 0 40 80 110	ning of solubility?	36 30 25 20	(1 mark)
Temperature (° 0 40 80 110 a)What is the mea	ning of solubility?	36 30 25 20	(1 mark)
Temperature (° 0 40 80 110 a)What is the mea	ning of solubility?	36 30 25 20	(1 mark)
Temperature (° 0 40 80 110 a)What is the mea	ning of solubility?	36 30 25 20 estance?	(1 mark)
Temperature (° 0 40 80 110 a) What is the mea	ning of solubility?	36 30 25 20 estance?	(1 mark)
Temperature (° 0 40 80 110 a) What is the mea	ning of solubility? ical state of the sul	36 30 25 20 ostance?	(1 mark)





14.Study the chart below and answer the questions that follow.

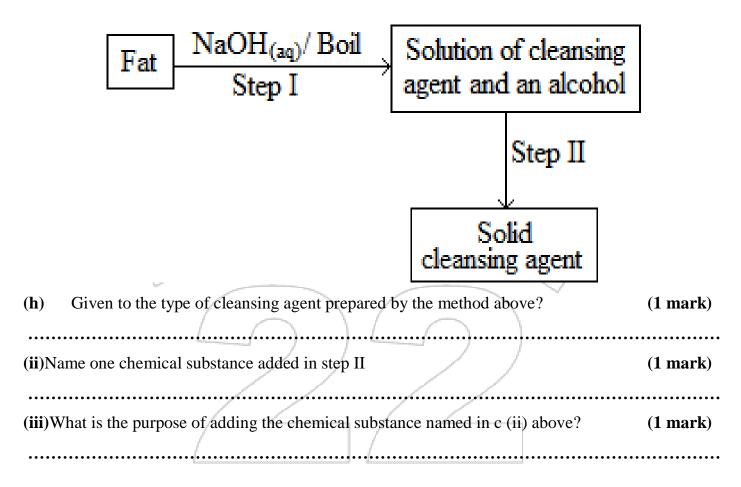






Medical Franctions Marking Schemes - 07-40 222 000	
(ii)Explain how process N and P can be affected	(2marks)
•••••••••••••••••••••••••••••••••••••••	•
•••••••••••••••••••••••••••••••••••••••	• • • • • • • • • • • • • • • • • • • •

16.The scheme below was used to prepare a cleansing agent. Study it and answer the questions that follow.



17. Nitrates of metals A, B, C were heated and the products of the reactions recorded in the table below.

Nitrate of metal	Products
A	Metal nitrate and oxygen
В	Free metal, nitrogen (IV) Oxide and oxygen gas
С	Metal oxide, nitrogen (IV) oxide and oxygen gas





KCSE Predictions	Marking	Schemes -	0746	222	000
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a)	Name two possible identities of r	metal A.	(1mk)
••••	•••••••••••••••••••••••••••••••••••••••	•••••••••••••••••••••••••••••••••••••••	••••••
b)	Name the two possible identity o	f metal B	(1mk)
••••			
c) show	Calcium nitrate is one of the nitrate how the products are formed.	ate which forms the products in C. Using chem	ical equation (1mk)
separa	State and explain what happens to thately heated in open crucibles; pper metal	ne masses of the following substances when the	ey are (3mks)
(ii) S	Sulphurpowder) ()	•••••••••••••
••••		/	••••••
19.T	he table below gives the first ioniza	ation energies of the alkali metals.	••••••
	Element	1 st ionization energy kJ mol ⁻¹	
	A	494	
	В	418	
	С	519	
a)	Define the term ionization energy	y.	(1mk)
••••	•••••	••••••	• • • • • • • • • • • • • • • • • • • •



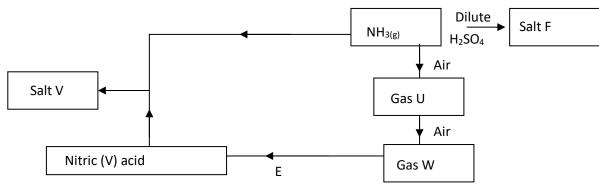


	KCSE Predictions Marking Schemes - 0746 222 000	
b)	Which of the three metals is the least reactive? Give a reason.	(2mks)
20.S	tudy the set-up below and answer questions that follow. Conc Sulphuric (VI) acid	
	Sodium chloride Beaker Funnel Water	
i) Na	ame the gas that is produced when concentrated sulphuric (VI) acid reacts with the	
Sodi 	um chloride	(1mark)
	Thy is it necessary to use a funnel in the beaker?	(1mark)
••••		•••••
iii)H	low does the gas affect the P ^H of the water in the beaker?	(1mark)
••••		••••





21. The flow chart/diagram below outlines a method of preparing a fertilizer



Identify U and W i) U $(^{1}/_{2}mark)$ W $(^{1}/_{2}mark)$ ii) Give the names of salt F and V (¹/₂mark) $(^{1}/_{2}mark)$ Write a balanced equation for the formation of salt F iii) (1 mark) 22.(a) Draw a dot (•) and a cross (x) diagram to show bonding in Cl₂O. (1 mark) Explain why the compound Cl₂O has a very low melting and boiling point. (1 mark)

23.Ethene reacts with oxygen according to the equation.

$$C_2H_{4(g)} + 3O_{2(g)} \longrightarrow 2 CO_{2(g)} + 2H_2O_{(g)}$$

15.0 cm³ of ethene were mixed with 50cm³ of oxygen and mixture was sparked to complete the reaction. If all the volumes were measured at a pressure of one atmosphere and 25°C. Calculate the volume of resulting gaseous mixture. (3 marks)





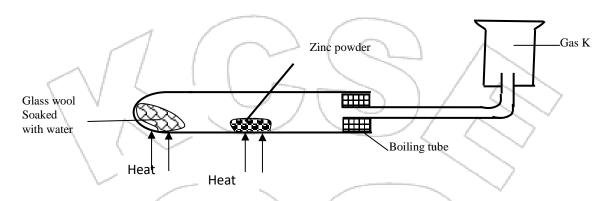
KCSE Predictions Marking Schemes - 0746 222 000
••••••
••••••
••••••
•••••••••••••••••••••••••••••••••••••••
24. The graph below shows the behavior of a fixed mass of a gas at constant temperature.
Pressure (atmospheres)
Volume (litres)
(a) What is the relationship between the volume and the pressure of the gas? (1 mark)
(b) 3 litres of oxygen gas at 1atm atmosphere pressure were compressed to 2atm at constant
temperature. Calculate the volume occupied by the oxygen gas. (2marks)
•••••••••••••••••••••••••••••••••••••••
•••••••••••••••••••••••••••••••••••••••
•••••••••••••••••••••••••••••••••••••••
•••••••••••••••••••••••••••••••••••••••
25. Temporary water hardness can be removed by boiling
(a) What is hard water. (1 mark)
••••••





(b)Write a chemical equation to show how temporary hardness is removed by boiling.	,
(c)State one advantage of hard water.	(1 mark)

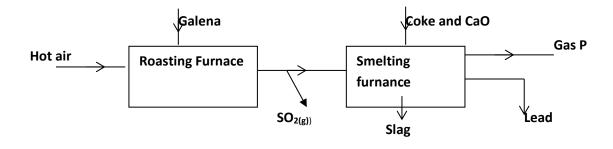
26.A student set-up the experiment below to collect gas K. The glass wool was heated before heating the zinc powder.



(a) Why was it necessary to heat the moist glass wool before heating the zinc powder? (1 mark)

(b) What observation was made in the boiling tube. (1 mark)

27. During the extraction of lead from its ores one of the main ore used is Galena







KCSE Predictions Marking Schemes - 0746 222 000	
(i) Write an equation for the reaction in roasting furnace.	(1 mark)
	•••••
(ii) Name gas P	(1 mark)
(iii) State one use of lead metal.	(1 mark)
28. The empirical formula of a compound is CH ₂ and it has a molecular mass of 42. (a) What is the molecular formula of this compound?	(1 mark)
(b) Write the general formula of the homologous series to which the compound belon	gs. (1mk)
(c) Draw the structural formula of the third member of this series and give its IUPAC	name. (1mark)
	•••••





KCSE 2022 PREDICTION

SERIES 1

NAME	INDEX NO
SCHOOL	SIGN
DATE	

Kenya Certificate of Secondary Education 233/2

CHEMISTRY

Paper 2

TIME: 2 hours

INSTRUCTIONS TO CANDIDATES:

- Write your name and index on the spaces provided above
- Answer all the questions in the spaces provided.
- All working must be clearly shown where necessary.
- Mathematical tables, Electronic calculators may be used.

For Examiners Use Only

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1	13	
2	13	
3	12	
4	09	
5	13	
6	10	
7	10	
Total	80	





KCSE Predictions Marking Schemes - 0746 222 000 <u>QUESTIONS</u>

1.(a) The grid below show part of the periodic table.(The letter do not represent the actual Symbols. Use it to answer the questions that follow.

					3		K	V		
	A	J		Y		U		L		
	W							M	В	1
		C						N		
	P									1
										1
(i)Select the	most re	eactive	non-metal.	7 (Town Street, S	<u> </u>	(1mk)
(ii)Select an	element	ts that f	forms a divalent cat		T				\supset	(1mk)
•••••		2	•••••	•••••	• • • • • • • •			<u></u>	•••••	•••••
(iii)Element	Z has at	tomic n	number 14.Show its	posiți	on in tl	ne grid.		\		(1mk)
(iv)How do	the atom	nic radi	i of U and J compa	re?)			(2mks)
•••••	• • • • • • • • •	•••••).			.,/	/	•••••	•••••	•••••
•••••	•••••	•••••	//	•••••	/			•••••	•••••	•••••
•••••	• • • • • • • • •	/		1/-			••••	•••••	•••••	•••••
		_] [
(v)How do	electrica	ıl condı	activity of A and Y	comp	are?					(2mks)
•••••	• • • • • • • • •	•••••	•••••	•••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • •	• • • • • • • • • • • • • • • • • • • •	•••••	•••••	•••••
•••••	• • • • • • • • •	•••••	•••••	•••••	•••••	• • • • • • • •	•••••	•••••	•••••	•••••
•••••	• • • • • • • • •	•••••	•••••	•••••	•••••	• • • • • • • •	• • • • • • • • •	•••••	•••••	•••••
(vi)How do	es the bo	oiling p	point of elements K	, L and	d M va	ry? Expl	ain			(2mks)



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(b) The table below gives information on four elements by letters $V,\,X,\,E$ and G. Study it and answer the questions that follow. The letters do not represent the actual symbols of the elements.

Element	Electron arrangement	Atomic radius	Ionic radius
V	2:8:2	0.136	0.065
X	2:8:7	0.099	0.181
E	2:8:8:1	0.203	0.133
G	2:8:8:2	0.174	0.099

(a) Which two elements have similar properties? Explain.	(2mks)
	\searrow
(b) Which element is a non-metal? Explain.	(1mk)
	•••••
(c) Which one of the elements is the strongest reducing agent.	(1mk)
2. (a) Petrol is a mixture of several alkane molecules ranging from pentane (C ₅ : (C ₁₀ H ₂₂).Name the process by which petrol is obtained from crude oil	H ₁₂) to decane (1mk)
(b) A decane molecule derived from petrol is cracked into hydrocarbon with eccarbon atoms in each molecule.	qual number of
(i) What is cracking?	(1mk)



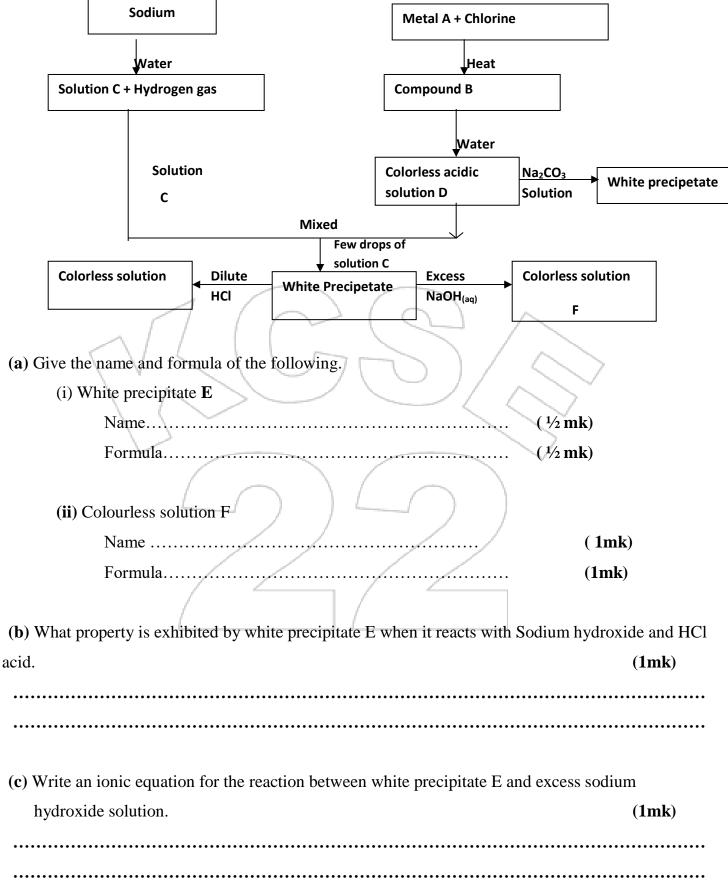


KCSE Predictions Marking Schemes - 0746 222 000 (ii) State two conditions necessary for the above process.	(2mks)
	•••••
(iii) Write an equation for the cracking of decane molecule.	(1mk)
(iv) Draw and name two isomers of molecule with lower molecular mass obtained cracking of decane as shown in b(iii) above.	from (2mks)
	•••••
(v) How would you distinguish the products formed by cracking as shown in b(iii)	in the
aboratory.	(2mks)
	•••••
(c) Name the class to which the following cleansing agents belong.	••••••
(i) R-COONa ⁺	(1mk)
(ii) R→ -O-SO ₃ Na	(1mk)
(d) Which cleaning agent above is not environmental friendly? Explain.	(2mks)





4. Study the flow diagram below and use it to answer the questions that follow.



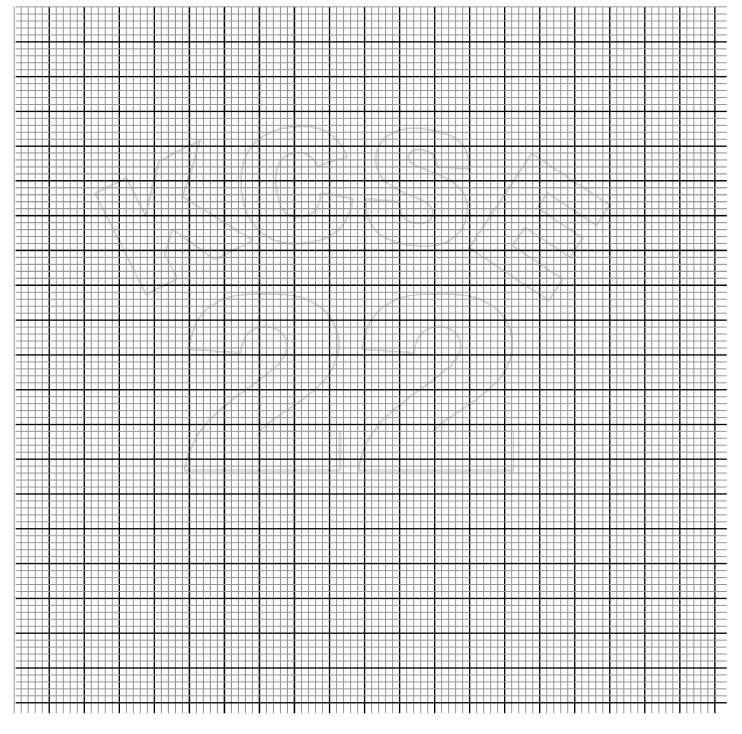




(d) The information below gives the solubilities (In g/100g of water) of substances X and Y at various temperatures

Temperature		0	20	40	60	80	100
Solubility g/100g o water	X	10	15	26	40	63	100
water	Y	30	34	37	40	44	48

(i) Plot a graph of solubility against temperature for the two salts X and y on the same axis. (4mks)







(i) From the graph state:

Ι	The	solubility	v of X	at 50°C
_		001001110	,	

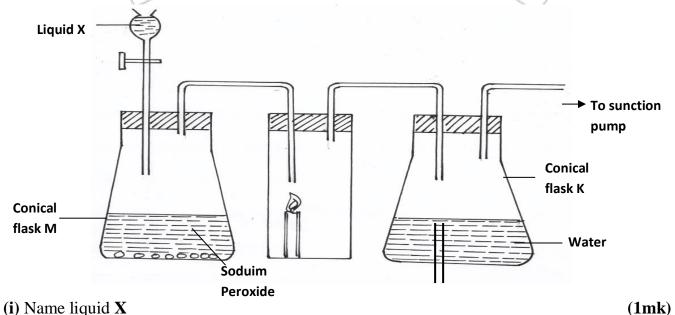
(1mk

II The temperature at which solubility of Y is 36g/100g of water.

(1mk)

III Calculate the mass of crystals of substance X which will deposit when a solution containing 50g of X in 100g of water initially at 80°C is cooled to a temperature of 30°C (1mk)

4. The diagram below shows a set - up that was used to prepare oxygen gas and passing it over a burning candle. The experiment was allowed to run for some time.



(1) Name nquiu A

(ii) Suggest the PH of the solution in conical flask **K**.

(1mk)

.....

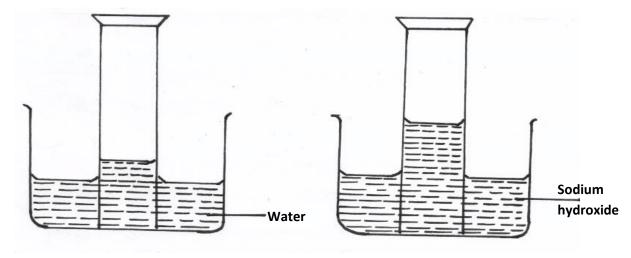




(iii)Write an equation for the reaction taking place in the conical flask	
(b) During the extraction of sodium metal from sodium chloride in the	Down's cell, calcium chloride
is added	
(i) Explain why it is necessary to add Calcium chloride	(1mk)
(ii) Explain why sodium metal is not used in making the overhead elec-	etric cables yet it is a
conductor of electricity	(1mk)
(c) (i) Describe a simple chemical test that can be used to distinguish of Carbon(II) oxide gases.	carbon (IV) oxide and (1mk)
(ii) Give one use of carbon (II) Oxide	(1mk)
(d) A form two student inverted a gas jar full of carbon (IV) oxide over	er water and sodium
hydroxide solution separately as shown below	

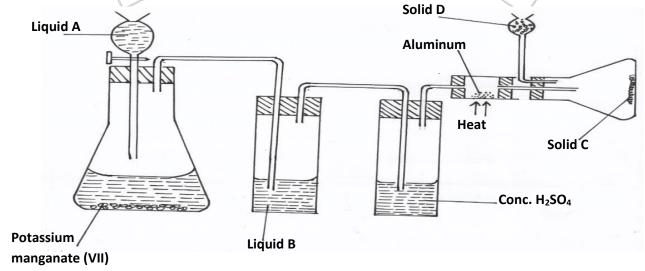






1	observation		(2mks)
			>

5.(a) Study the diagram below and use it to answer the questions that follow.



(i) Name liquids A and B	
A	(1mk)
B	(1mk)
(ii) Suggest a suitable reagent that can be used as solid ${\bf D}$	(1mk)
•••••••••••••••••••••••••••••••••••••••	•••••





KCSE Predictions Marking Schemes - 0746 222 000	
(iii) State the role of Solid D	(1mk)
••••••	•••••
••••••	•••••
(iv) Write a balanced chemical equation for the reaction in the conical flask	(1mk)
	•••••
	• • • • • • • • • • • • • • • • • • • •
(v) Explain why solid C collects further away from the heated aluminium metals.	(1mk)
•••••••••••••••••••••••••••••••••••••••	•••••
	•••••
(v) In the combustion tube above, 0.675g of aluminium metal reacted completely wi	
of chlorine gas at room temperature. Determine the molecular formula of Solid C, given to	that its
relative formula mass is 267 (Al= 27.0, Cl= 35.5 molar gas volume at r.t.p = 24.0 litres)	(3mks)
	•••••
	•••••
	•••••
	•••••
	•••••
	•••••
(b) The reaction between hot concentrated sodium hydroxide and chlorine gas produces	Sodium
Chlorate (V) as one of the products	
(i) Write the equation for the reaction.	(1mk)
	•••••
(ii) Give one use of sodium chlorate.(V)	(1mk)
	•••••
(c) Explain the difference between bleaching by chlorine and bleaching by sulphuric	



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KCSE Predictions Marking Schemes - 0746 222 0	000
(IV)oxide gases.	(2mks)
A. Study the diagram below that is used to prepare a gas Q.	
Air R Copper turnings	Gas Q
Concentrated potassium hydroxide solution hydroxide solution (a) (a) What component of air is eliminated in wash bottle labelled R?	(1 mark)
Write the reaction equation for the reaction that eliminates the comp	onent of air in a(i) above. (1 mark)
ii) What component of air is removed in hard glass tube labelled P?	(1 mark)
iii) Identify gas Q.	(1 mark)





B.In an experiment 1.54g of nitrogen reacted with 3.53g of oxygen to form a compound. N = 14, O = 16(i) Calculate the moles of nitrogen and oxygen that reacted. (2 marks) (ii) Determine the simplest formula of the compound formed between nitrogen and oxygen.(2 mks) (iii) Commend on the melting and boiling points of the compound in B(ii) above, explain. (2 marks) 7. In the preparation of Copper carbonate, copper was burnt in air and the product collected. Dilute sulphuric acid was added and the mixture filtered and cooled. Sodium carbonate was added to the filtrate and the content filtered. The residue was washed and dried to give a white powder. a) Give the chemical name of the product formed when magnesium burns in air (1mk)**b)** Write a chemical equation for the formation of product. (1mk)c) (i) Name filtrate collected after sodium carbonate was added (1mk)





(ii) Name the white powder.	(1mk)
d) Write chemical equation for the reaction between product in (a) and acid.	(1mk)
	• • • • • • • • • • • • • • • • • • • •
e) Write an ionic equation to show the formation of the white powder	(1mk)
	• • • • • • • • • • • • • • • • • • • •
f) Write an equation to show what happened when white powder is strongly heated.	(1mk)
	• • • • • • • • • • • • • • • • • • • •
g) Using a diagram, describe how a salt can be obtained from the filtrate in c(i) above	(3mks)
	•••••





KCSE 2022 PREDICTION

SERIES 1

SCHOOL	SIGN
DATE	

CHEMISTRY PRACTICAL

CONFIDENTIAL

The information contained in this **KCSE Chemistry Prediction paper** is to enable the head of the school and the teacher in charge of Chemistry to make adequate preparations for the **233/3 Chemistry** Practical examination.

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

INSTRUCTIONS

In addition to the laboratory fittings each candidate requires the following:

(a)

- 1. Burette
- 2. Pipette
- **3.** Pipette filler
- **4.** Filter funnel
- **5.** White tile
- **6.** Clamp and stand
- 7. 2 conical flask
- 8. 100 cm³ glass Beaker (empty)
- **9.** Stop watch
- **10. 100cm3** measuring cylinder
- 11. 10cm³ measuring cylinder
- 12. 250 cm³ volumetric flask
- **13.** Metallic spatula
- **14. 6** clean test tubes





- **15.** Test tube holder
- **16. 500ml** distilled water
- **17.** White piece of paper or filter paper
- 18. 1 filter paper
- **19. 1** labelling paper
- **20.** Phenolphthalein indicator
- 21. About 90cm³ solution K
- 22. About 100cm³ solution L
- 23. About 70cm³ solution N
- 24. About 90cm³ solution P
- 25. About 0.5gNaHCO₃
- **26.** About **1.0g** solid **Q**
- 27. About 0.5g solid R

(b) Each student should have access to the following solutions:

- **1.** Mean of heating
- **2.** 2M NaOH
- **3.** 2M HNO₃
- 4. $Pb(NO_3)$
- **5.** Acidified KMNO₄
- **6.** Potassium iodide solution

NB: The above solutions should be supplied with a dropper each.

(c) SOLUTIONS PREPARATION AND SOLID MEASUREMENTS

- 1. SOLUTION K IS 1M H₂SO₄
- 2. SOLUTION L IS 0.36 M NaOH CONTAINING 14.4g OF NAOH IN 1 LITRE OF THE

SOLUTION

- 3. SOLUTION N IS 2M HCl
- 4. SOLUTION P IS 0.16 M Na₂S₂O₃(SODIUM THIOSULPHATE)
- 5. SOLID Q IS A MIXTURE OF SODIUM SULPHITE(Na₂SO₃) AND LEAD (II)

CARBONATE (**PbCO**₃) MIXED IN THE **RATIO 1:1** (should be thoroughly mixed)

6. SOLID **R** IS MALEIC ACID





KCSE 2022 PREDICTION

SERIES 1

NAME	INDEX NO
SCHOOL	SIGN
DATE	

233/3

CHEMISTRY

PAPER 3
TIME: 2 ¼ HOURS
PRACTICAL

INSTRUCTIONS TO THE CANDIDATES:-

- Write your name and index number in the spaces provided
- Sign and write the date of examination in the spaces provided
- Answer all the questions in the spaces provided.
- Mathematical tables and electronic calculators may be used.
- All working **MUST** be clearly shown where necessary.
- Use the first 15minutes of the 2 ½ hours to ascertain you have all the chemicals and apparatus tha you may need.

FOR EXAMINERS USE ONLY

QUESTION	MAXIMUM SCORE	CANDIDATES SCORE
1	15	
2	11	
3	14	
TOTAL	40	





QUESTION 1

- You are provided with solution K and L
- Solution **K** is 1M H₂SO₄
- Solution **L** contains 8.7g of the hydroxide of metal **M** {with formulae MOH] in 600cm³ of the solution
- You are required to carry out the experiment to determine;
- i. Concentration of solution L
- ii. R.A.M of metal **M**

PROCEDURE

- 1. Measure 75cm3 of solution K and put into a clean 250cm3 volumetric flask and add distilled water up to the mark
- -label this solution W
- **2.** Fill a clean burette with solution W
- 3. Pipette 25cm3 of solution L into a clean conical flask and add 2 drops of phenolphthalein indicator
- **4.** Titrate the solution **W** in the burette against solution **L** in the conical flask and record the results in the table below
- **5.** Repeat {3} and {4} above as you fill the table below.

TABLE 1

Final burette reading {cm³}

	/		
Initial burette reading {cm ³ }			
Volume of solution W used {cm³}			
			[4mks]
{a}Calculate the;			
{i}Average volume of solution W used	l		[1mk]
	•••••	•••••	•••••
•••••	•••••	•••••	•••••
•••••	•••••	•••••	•••••
(ii) Concentration of solution W			[1mk]
	•••••	•••••	•••••





Ш

 \mathbf{II}

{iii}	Number of moles of solution W that reacted with each 25cm3 portion of solution I	{2mks]
•••••		
• • • • • •		•
•••••		•
•••••	•••••••••••••••••••••••••••••••••••••••	•
{b}	Calculate the;	
{i}	Number of moles of the metal hydroxide {MOH} in solution L that reacted with ea	ach portion
of solu	ution W	[2mks]
• • • • • •	1 (-)	•
•••••		•
•••••		•
{ii}	Concentration of solution L	[1mk]
•••••		•
•••••		•
{iii}N	Number of moles of the metal hydroxide [MOH]in 600cm3 of solution L	[2mks]
•••••		•
•••••		•
• • • • • •		•
	R.A.M of metal M [0=16, H=1]	[2mks]
•••••		•
• • • • • •	•••••••••••••••••••••••••••••••••••••••	•
•••••		





QUESTION 2

You are provided with solution N and P

- Solution N is 2M HCl
- Solution P is 0.16M sodium thiosulphate
- You are required to carry out the experiment below to determine how concentration affects the rate of reaction between HCl and sodium thiosulphate solutions

PROCEDURE

1. Fill a clean burette with solution P.

Measure 25cm³ of the solution P from the burette into a clean 100cm³ glass beaker and place on a white piece of paper with a cross[x] marked on it

- 2. Add 10cm³ of solution N into it and immediately start a stop watch and note the time taken for the cross beneath the mixture to become invisible
- 3. Clean the 100cm³ beaker and measure into it 20cm³ of solution P form the burette, and add 5cm³ of distilled water into the solution
- 4. Repeat step [2] above and note the time taken for the cross to become invisible
- 5. Repeat the experiment using volumes indicated on the table below and as you record the results

TABLE 2

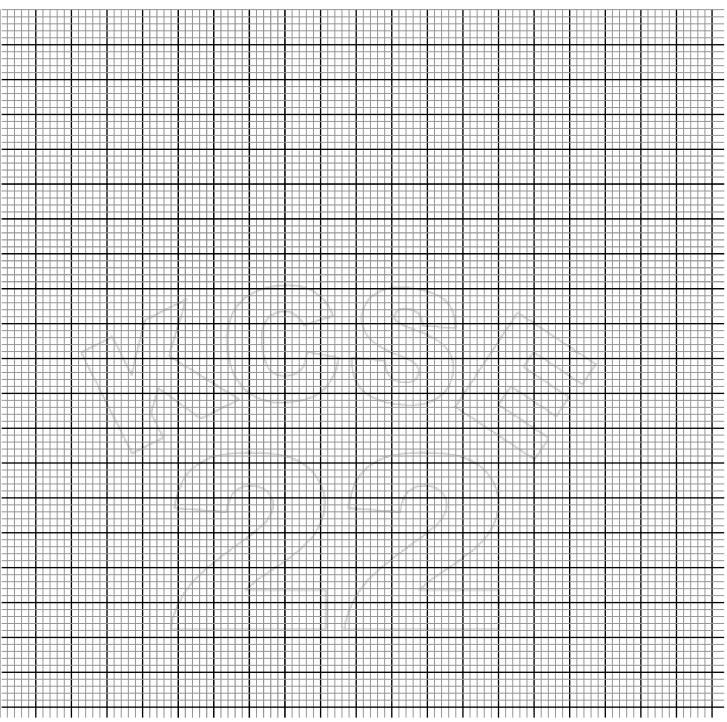
Expt					
	1	2	3	4	5
Volume of solution p(cm ³)	25	20	15	10	5
Volume of water added to solution p{cm3}	0	5	10	15	20
Volume of solution N	10	10	10	10	10
Time taken for the cross to become invisible					
[in seconds]					
$\frac{1}{t}$ S ⁻¹					

(4mks)





[a] plot a graph of $\frac{1}{t}$ against volume of solution P on the grid provided [3mk]



{i} Determine the time taken for the cross to become invisible when 12.5cm³ of solution P is used [2mks]

.....



	ACSE Fredictions Marking Schemes - 0/40 222 000	
•••••		
•••••	•••••••••••••••••••••••••••••••••••••••	
{ ii }	Explain the effect of concentration on the rate of reaction between HCl and sodium	
thiosu	lphate solution [2m	ks]
•••••		
•••••	•••••••••••••••••••••••••••••••••••••••	
•••••	••••••••••••••••••••••••••••••••••••	

QUESTION 3

- You are provided with solids Q and R
- You are required to carry out the tests below as you record your observations and inferences
- (i) SOLID Q

-Add about 5cm³ of distilled water to solid Q, shake the mixture thoroughly for a while and then filter it

NOTE: Retain both the filtrate and the residue for the tests below

	TEST	OBSERVATIONS	INFERENCES
(a){i}	Divide the filtrate into 4		
	portion		
	-To the first portion, add 4		
	drops of NaOH	$\left(\frac{1}{2}mar\right)$	
		\2 <i>mu</i>	(1mar
{ii}	Scoop the 2 nd portion on a		
	metallic spatula		
	and ignite on a non-luminous		
	flame		
		$\left(\frac{1}{2}mar\right)$	$\left(\frac{1}{2}mar\right)$





		sus naments sentences of 10 22.	
{iii}	To the 3 rd portion, add 2 drop		
	of $Pb\{NO_3\}_{[aq]}$		
		$\left(\frac{1}{2}mar\right)$	(1mar
		$(\overline{2}^{mar}$	
{iv}	To the 4 th portion ,add		
	acidified KmnO ₄		
	1 /	(1,	
	. []	$\left(\begin{array}{c} \left(\frac{1}{2}mar\right) \end{array}\right)$	/
			$\left(\frac{1}{2}mar\right)$
h(i)	Put the residue in a test tube		. ~ ~
b{i}	\ /\ /\		
	and add about 2cm ³ of HNO ₃		
			\searrow
			(1 m ax
		/ / - 	(1mar
	/	$\left(\frac{1}{2}mar\right)$	
{ii}	To the mixture in b{i} above,		
	add 2 drops of KI solution		
	_		
		/1	/ 1
		$\left(\frac{1}{2}mar\right)$	$\left(\frac{1}{2}mar\right)$

$\{\underline{ii}\}$ SOLID R





	TEST	OBSERVATIONS	INFERENCES
(a)	Scoop a portion of solid R on Metallic spatula and burn on Non-luminous flame		
		(1mar	(1mar
(b){i]	Put the remaining portion of solid R into a clean test tube and add about 3cm ³ of distilled water, shake and divide into 2 portions		
		(1mar	$\left(\frac{1}{2}mar\right)$
{ii}	To the 1 st portion, add 2 drops of acidified KMnO ₄ and warm	/ \ — / /	
		$\left(\frac{1}{2}mar\right)$	(1mar
{iii}	To the 2 nd portion add NaCO		
		$\left(\frac{1}{2}mar\right)$	(1mar





KCSE 2022 PREDICTION

SERIES 1

NAME	INDEX NO
SCHOOL	SIGN
DATE	

232/1

PHYSICS

THEORY
PAPER 1
TIME: 2 HOURS

INSTRUCTIONS TO THE CANDIDATES:

- a) Write your name and index number in the spaces provided above.
- b) Answer all the questions both in section A and B in the spaces provided below each question
- c) All workings must be clearly shown; marks may be awarded for correct steps even if the answers are wrong.
- *d)* Mathematical tables and silent electronic calculators may be used.

FOR EXAMINERS' USE ONLY

SECTION	QUESTION	MAX SCORE	CANDIDATE'S SCOR
SECTION A	1-13	25	
SECTION B	14	11	
	15	15	
	16	08	
	17	07	
	18	14	
	TOTAL	80	

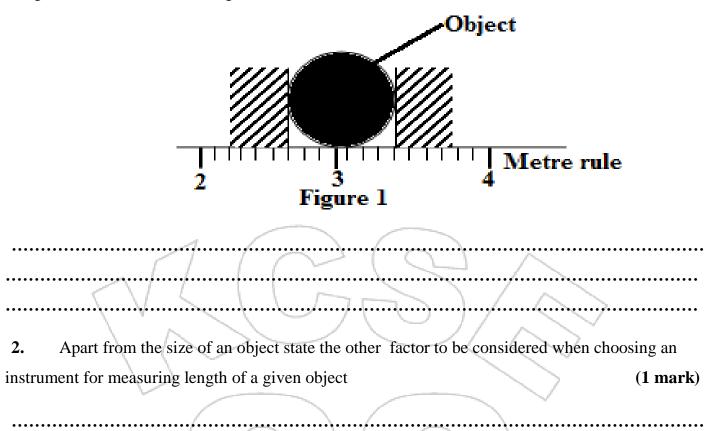




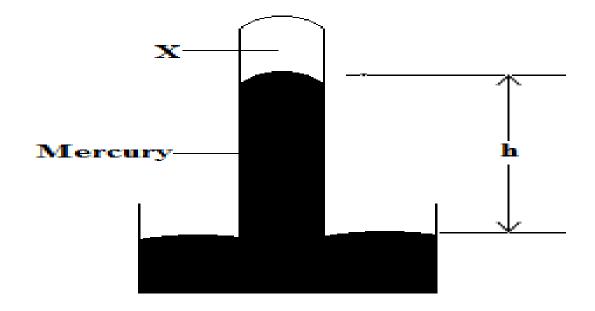
SECTION A (25 MARKS)

Answer All Questions In This Section In The Spaces Provided

1. Figure 1 shows an object held between two straight edges. Determine the radius of the object using the meter rule shown in figure 1 below. (2 marks)



3. The figure shows the level of mercury in a barometer. Study the diagram and answer the questions that follow





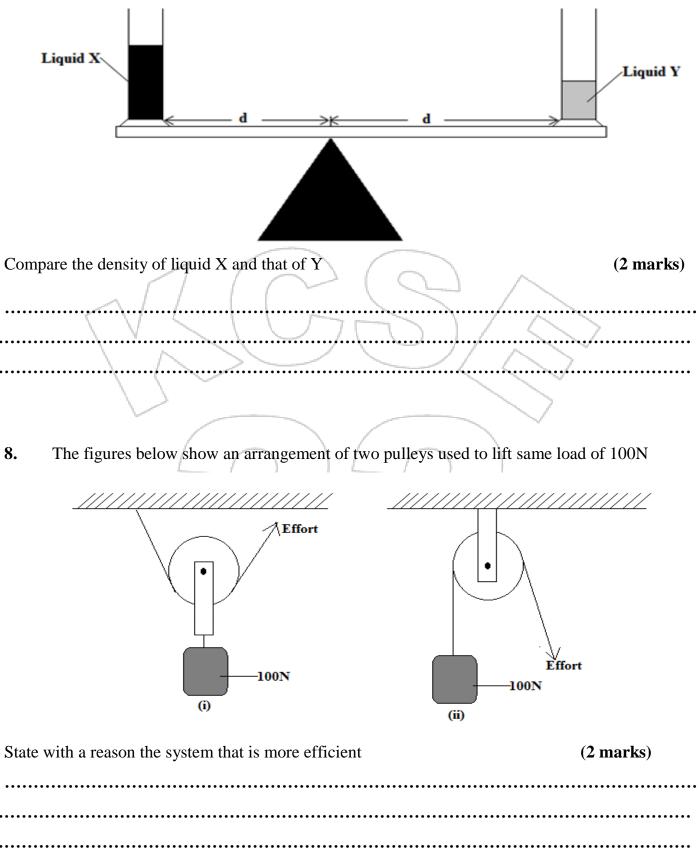


KCSE Fredictions Marking Schemes - 0740 222 000	
State and explain the effect on the height h when the atmospheric pressure increases	(2 marks)
	•••••
	•••••
	•••••
4. Give a reason why it easier to use a hammer with a long handle to remove a nail	from wood
than to use another one with a short handle to remove the same nail	(1 mark)
	•••••
	•••••
5. When a steel ball is allowed to fall freely in a viscous fluid, it is observed to atta	in tarminal
velocity after some time. State the reason why the ball attains terminal velocity	(1 mark)
	•••••
	•••••
	•••••
6 The tens in the figure (not to seels) was obtained from an experiment using a time	nor of
6. The tape in the figure (not to scale) was obtained from an experiment using a time	nei oi
frequency 50Hz	
	
Direction of motion of the body	
State whether the body is decelerating or not the acceleration of the body whose motion	ı is
represented in the tape.	(1mark)
represented in the tupe.	(Imark)
	••••••
	••••••
	• • • • • • • • • • • • • • • •





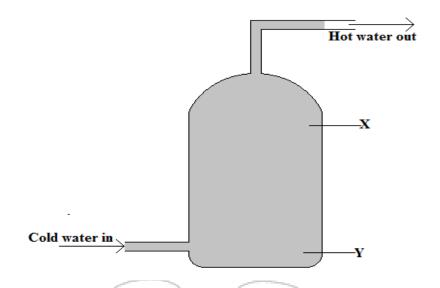
7. The figure shows two identical measuring cylinder containing different liquids X and Y placed on a weightless simple balance. The system is equilibrium.





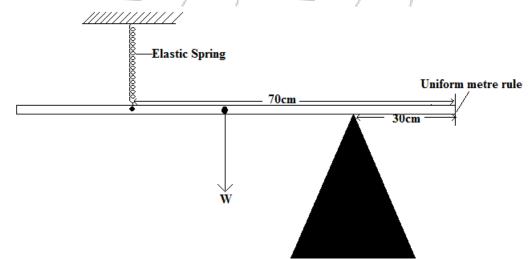


9. The figure shows a water tank that is used to heat water and supply through taps.



State with a reason w		ate position for a heater is	X or Y (2 marks)	
\	V. J. J.		/ ^ ^	
	1 < /			

10. The figure shows a uniform metre of mass 200g balance by a spring balance placed 70cm form one. The pivot is placed 30cm away from the same end. Study the diagram and answer the questions that follow



Determine tension T on the spring	(2 marks)
••••••	•••••
	••••••





KCSE Predictions Marking Schemes - 0746 222 000	
11. State the cause of random motion of smoke particles as observed in Brownian motion	
experiment using a smoke cell. (1 r	nark)
	•••••
•••••••••••••••••••••••••••••••••••••••	• • • • • •
12. The figure shows the level of mercury and water in identical glass beakers	
Explain the difference in the shapes of the meniscus (2 m	arks)
	•••••
13. A wooden block of mass 2kgs is placed on a horizontal surface. A horizontal force of 1	
exerted on it makes it to accelerate at 5ms ⁻² . Determine the frictional force acting between the	
surfaces. (2 r	narks
•••••••••••••••••••••••••••••••••••••••	•••••
•••••••••••••••••••••••••••••••••••••••	•••••





KCSE Predictions Marking Schemes - 0746 222 000 <u>SECTION B (55 MARKS)</u>

Answer All Questions In This Section In The Spaces Provided

14.	
a) State the two conditions necessary for a system of forces acting on a body to be	in
equilibrium	(2 marks)
•••••	
•••••	
	•••••
b) The figure shows a loaded wheelbarrow held in equilibrium by a gardener. The	wheel of the
wheelbarrow is in contact with the ground at point C	
There are three vertical forces acting on the wheelbarrow P is the upward force applied gardener. Q is the upward force of the ground on the wheel at point C.W is the weight of the ground on the ground on the g	-
	of the
wheelbarrow and its contents. Explain why the force P is less than the force W	(2 moulta)
i. By considering the forces P, Q and W,	(2 marks)
	••••••
••••••	••••••
ii. By considering the moments of the forces P and W about point C.	(2 marks)
	•••••
	SNYA MAN





c) The figure shows a tanker lorry full of liquid. Study the diagram and answer the questions that follow



The tanker delivers the liquid and drives away empty. Compare the acceleration of the empty

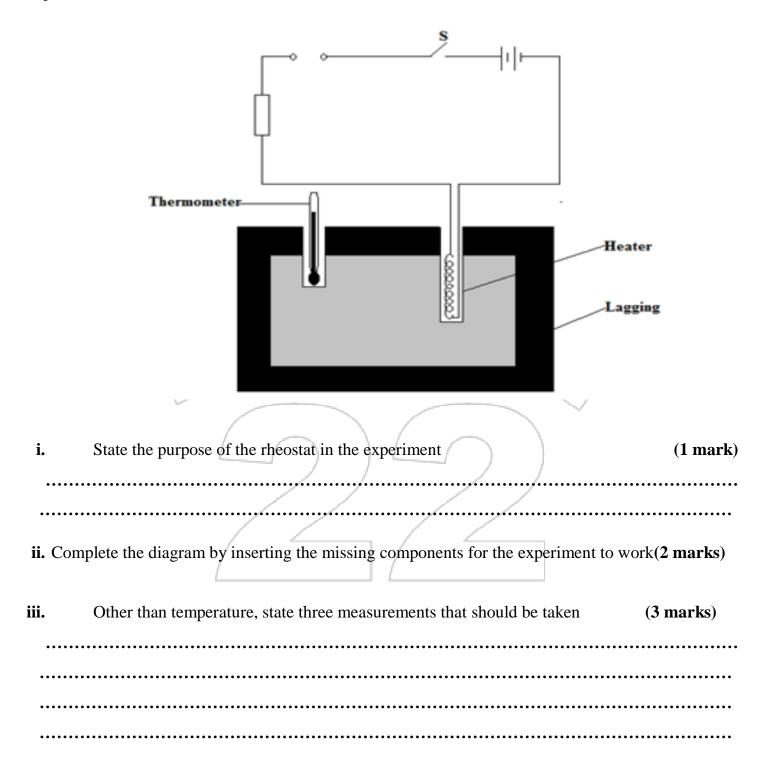
tanke	r with the acceleration of the full tanker for the same resultant force	(2 marks)
•••••		
ii. resisti	Given that empty tanker has a weight of 50 000 N. The forward and the force is 2000N. Determine the acceleration of the tanker	(3 marks)
•••••		
•••••	••••••	•••••
15. a)	A warm bottle of soda placed in ice at 0°C cools faster than when	n the same soda is placed in
water	at the same temperature. Explain this observation	(2 marks)
•••••		
•••••	•••••••••••••••••••••••••••••••••••••••	•••••



i.



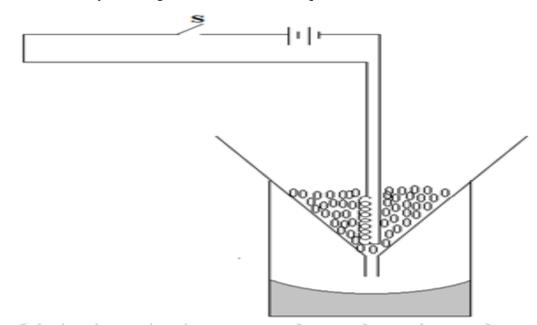
b) The figure shows an incomplete circuit set up that can be sued in an experiment to determine the specific heat capacity of a solid block by electric method. Study the diagram and answer the questions that follow







c) The figure shows a set-up of apparatus used in an experiment to determine the specific latent heat of fusion of ice. Study the diagram and answer the questions that follow



The following readings were noted after the heater was switched on for 10 minutes

- ➤ Mass of the beaker=260g
- ➤ Mass of the beaker +melted ice =280g

theoretical value. Give one reason for this observation

Determine

i.	The energy supplied by the 120W heater in the 10 minutes	(3 marks)
••••		• • • • • • • • • • • • • • • • • • • •
		•••••
ii.	The specific latent heat of fusion of the ice	(3 marks)
••••	•••••••••••••••••••••••••••••••••••••••	•••••
••••		•••••
iii.	The experiment value for the specific latent heat of fusion of ice obtained	is loss than the





(1 mark)

KCSE Predictions Marking Schemes - 0746 222 000			
16. The figure shows a conveyor belt transporting a package to a raised platform. The belt is			
driven by a motor.			
conveyor belt			
package			
motor			
The mass of the package is 36 kg. Determine a) The increase in the gravitational potential energy (G.P.E.) of the package when it is raised through a vertical height of 2.4 m. (2 marks)			
b) The power needed to raise the package through the vertical height of 2.4 m in 4 s (2 marks			
c) The electrical power supplied to the motor is much greater than the answer to (b).			
Explain how the principle of conservation of energy applies to this system. (2 marks)			
d) Assume that the power available to raise packages is constant. A package of mass greater than 36 kg is raised through the same height. Suggest and explain the effect of this increase in mass on the operation of the conveyer belt. (2 marks)			
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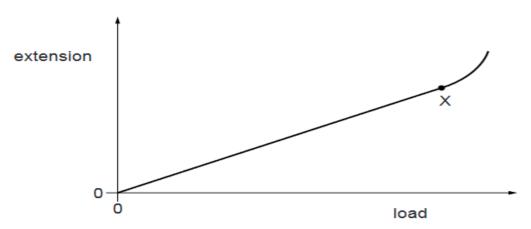


KCSE Predictions Marking Schemes - 0746 222 000		
17. An athlete of mass 64 kg is bouncing up and down on a trampoline. At one moment, the athlete is stationary on the stretched surface of the trampolin figure below.	ne as shown in the	
sp Sp	rings	
a) State the form of energy stored due to the stretching of the surface of the	trampoline.(1 mark)	
b) The stretched surface of the trampoline begins to contract. The athlete is upwards and she accelerates. At time t, when her upwards velocity is 6.0 m/s, sl contact with the surface. Determine	•	
Her kinetic energy at time t.	(2 marks)	
The height at which the kinetic energy will be zero	(2 marks)	
In practice, she travels upwards through a slightly smaller distance than the distance that the distance in (ii). Suggest why this is so.	ance (1 mark)	





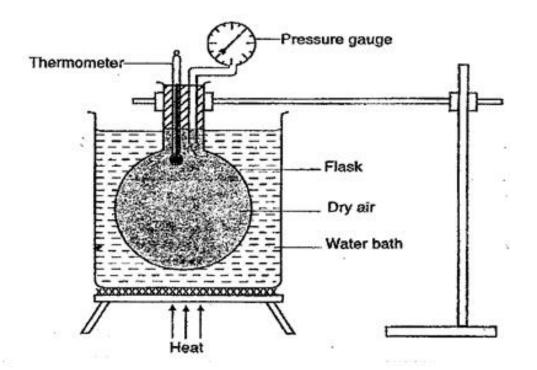
c) The trampoline springs are tested. An extension-load graph is plotted for one spring. Fig. 3.2 is the graph.



i. On the same axes sketch a graph of another spring whose spring constant is higher than the trampoline springs(1 mark)

18.

a) The diagram below shows a set-up used to investigate a particular gas law. Study the diagram and answer the questions that follow



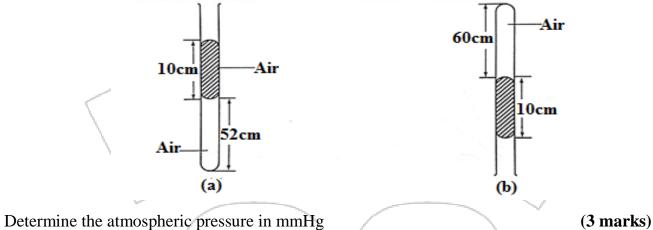
(a) State with a reason which gas law is being experimented by the set-up (2 marks)

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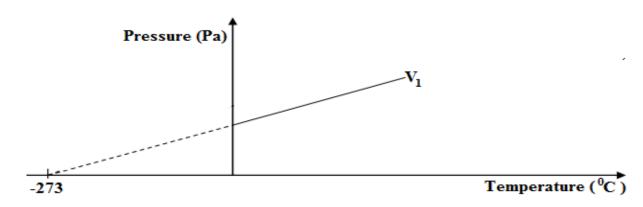




(b)	Name the two factors that are held constant in the experimented	(2 marks)
•••••	•••••••••••••••••••••••••••••••	
(c)	Give the reason why heating is done through a water bath	(1 mark)
•••••		
b)	Figure (a) shows 52cm of air trapped by a mercury column of 10cm volumn of air when the glass tube is inverted	while figure (b) shows
	1.1	



 \mathbf{c}) The graph below shows the relationship between the pressure and temperature of a gas of volume V_1



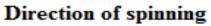
On the same axis sketch another graph for a gas of a larger volume.

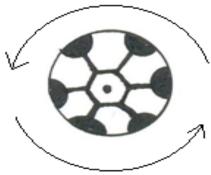
(1 mark)

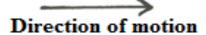




- b)
- (a) The figure below shows a ball spinning in anticlockwise direction through still air







The horizontal distance covered by the ball is observed to be longer than when the ball is not			
spinned. Explain how the spinning increases the range of the ball	(3marks)		
	• • • • • • • • • • • • • • • • • • • •		
(b) The figure below shows gas flowing along a pipe of non-uniform cross-sectional a	rea. Two		
pipes A and B are dipped into liquids as shown below.			
——→ Gas			
IIIIIII			
A B			
Indicate the levels of the liquids in A and B giving a reason for your answer (2	marks)		
	•••••		
	•••••		





KCSE 2022 PREDICTION

SERIES 1

NAME	INDEX NO
SCHOOL	SIGN
DATE	

232/2

PHYSICS

PAPER 2 (THEORY) TIME: 2 HRS

INSTRUCTIONS

- a) Write your name and your Index number in the spaces provided.
- b) This paper consists of **two** sections, Section A and B. Answer ALL the questions in both section in the spaces provided in this paper.
- c) ALL working must be clearly shown.
- **d)** Mathematical tables and electronic calculators **may be** used.

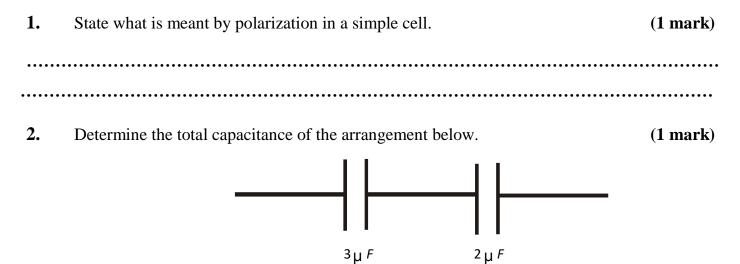
FOR EXAMINER'S USE:

SECTION	QUESTION	MAXIMUM SCOR	STUDENTS SCORE
A	1-15	25	
В	16	10	
	17	15	
	18	15	
	19	15	
	TOTAL	80	



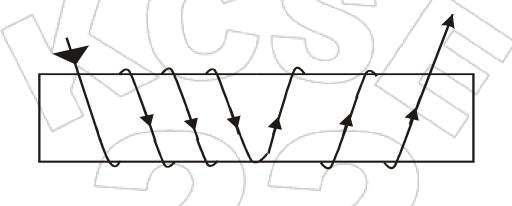


KCSE Predictions Marking Schemes - 0746 222 000 <u>SECTION A: 25 MARKS</u>

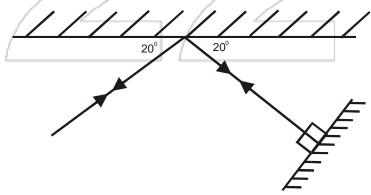


3. Indicate the poles of the electromagnet shown in the figure below.





4. The following diagram shows the path of light after striking two mirrors at an angle.



Determine the angle between the two mirrors.





ACSE I reactions marking schemes - 0740 222 0	00
5. A cell of e.m.f E volts and internal resistance r ohms is connected to	an external resistor R.A
current I amperes flows through the circuit. Write an expression relating E,r,	R and I. (1 mark)
6. A radio station broadcasts at a frequency of 96.4MHz. What is the wa	avelength of its radio
waves. ($C=3.0 \times 10^8 \text{ms}^{-1}$).	(1 mark)
7. A vertical pin is fixed at the centre of a rectangular container with th	in transparent walls as
shown below.	
5 cmPin	
	✓
* ()	
A transparent liquid is then poured into the container. When viewed from sid	de A, the distance of the
pin is1.9cm from the edge,determine the refractive index of the liquid.	2 mk
8. When a candle flame is brought near the cap of a charged electroscop	pe, the electroscope
discharges.	
Explain this observation.	(2 marks)





9.	State the function of a fuse in a circuit.	(1 mark)
••••		
10.	Sketch a ray diagram to show the image formed when a convex lens is us	ed as a simple
micro	oscope.	(2 marks)
11.	What is meant by threshold frequency as used in photoelectricity.	(1 mark)
12.	Give the difference between real and virtual image.	(2 marks)
		<i></i>
13.	A charge of 360 coulombs flows through a lamp every minute. Calculate	the number of
electi	rons involved (electron charge is 1.6x10 ⁻¹⁹ C).	(3 marks)
••••		••••••
•••••		
•••••	••••••	•••••
14.	X-Rays are produced by a tube operating at $1.0 \times 10^4 \text{V}$. Calculate their way (Take h=6.6x10 ⁻³⁴ JS,e=1.6x10 ⁻¹⁹ C, c=3.0x10 ⁸ ms ⁻¹ .).	velength (3 marks)





15.	The following	g is part of	a radioac	tive dec	ay series.			
	234	β		а	230			
$Bi \square$	$\square \longrightarrow \square \square \square X$	•						
	83		84	b				
	Determine t	he values of	of a and b	•	1			(2 marks)
	_			\bigcap	- (C			
		$\sqrt{}$		()	70) /		
	\			SECTI	ION B (55 mai	rks)		×
16.	a) Define t	he term pri	incipal fo	cus as a	applied in thin l	enses.		(2 marks)
	<i>a, 2</i> • · · · ·	\		-			\/	(=)
••••	••••••	/		······	V / - /		/	••••••
•••••	• • • • • • • • • • • • • • • • • • • •	••••••	·····	·)·····	.)	····)·····	•}	•••••
•••••	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • •		·····/	//		<i>/</i> ······	•••••
b)	A lens form	ns a clear i	mage on	a screen	n. When the dis	stance betv	veen the scr	een and the object
is 800	cm, the image	e is 3 times	the size of	of the ol	bject.			
i)	Explain the	e type of le	ns used.					(2 marks)
,	1	71						,
	ii) Determ	ine the dis	tance of t	he imag	ge from the lens	s.		(3 marks)





iii) Determine the focal length of the lens.	(2 marks)
--	-----------

c) i) Define the term 'refractive index' of a material.

(1 mark)

- **ii)** A microscope is used to focus a mark on a surface .When a rectangular glass block 30mm thick is placed on the mark,
- 17. a) Define work function as used in photoelectric effect.

(1 mark)

b) Give one application of photoelectric effect

(1mark)

b) In an experiment to observe photoelectric emission from a clean caesium surface, the following readings were obtained.

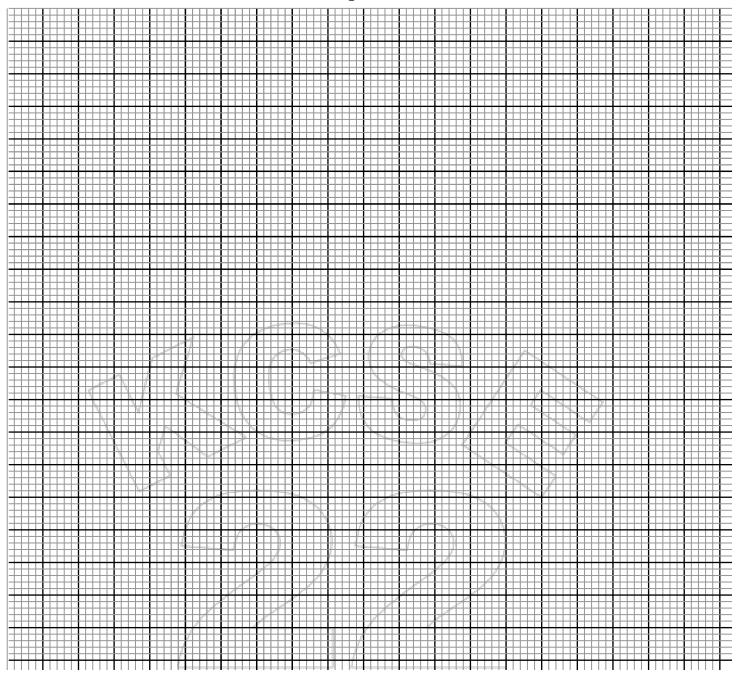
Stopping potential (V)	0.6	1.0	1.4	1.8	2.2
Frequency (x10 ⁴ Hz)	6.0	7.0	8.0	9.0	10.0

i) Plot a graph of stopping potential V_S (y-axis) against frequency

(5 marks)







- ii) From the graph, determine the threshold frequency of the surface. (1 marks)
- iii) Use the graph to determine plank's constant.(Charge of electron=1.6x10⁻¹⁹C).(3 mark)



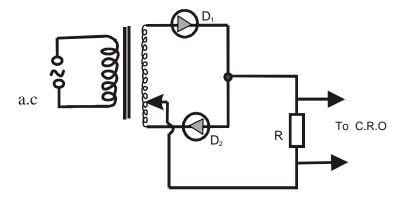


	ACSE Tredictions Marking Schemes - 0740 222 00	· U
iv)	Calculate the work function of the metal.	(3 marks)
v)	Calculate the threshold wavelength of the radiation.(c= $3.0x10^8$).	(2 marks)
18.	a)An x-ray tube produces x-rays whose wavelengths vary from 6.0x10	0^{-13} to 6.0×10^{-13} m.
Detern	mine.	
ii)The	i) The range of the frequency of the x-rays. e highest energy of the x-rays. ($c=3.0x10^8$ and $h=6.6x10^{-34}$ JS). (3 mag)	(3 marks)
b) transfo	The primary coil of a transformer has 1200 turns and the secondary cormer is connected to a 240V a.c source.	oil has 60 turns. The
i)	Determine: The output voltage.	(2 marks)
ii) losses.	The output current when the primary coil has a current of 0.5A. (Assu) (3 ma)	





c) A student connected a circuit as shown below, hoping to produce a rectified output.



i) Sketch the graph of the output as seen on the C.R.O screen.

(2 marks)

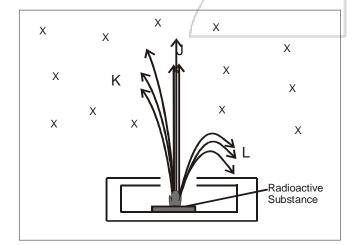
ii) Explain how this output is produced.



19. a) Define the term radioactivity.

(1 mark)

b) Radiations from a radioactive isotope were subjected to a strong magnetic field .The results are represented in the figure below.







Identify the radiations J and K giving a reason for your choice.	(4 marks)
a)J	(1 marks)
Reason	
b)K	(1 mark)
Reason	(1 mark)
(1 mark)	







KCSE 2022 PREDICTION

SERIES 1

SCHOOL	SIGN
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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.

INSTRUCTIONS TO SCHOOLS: QUESTION 1

Each candidate will require the following.

- A milliammeter.
- A voltmeter (0-3V) or (0-5V).
- A wire mounted on a mm scale (Nichrome wire SWG 32)
- A switch.
- A long wire with a crocodile clip at one end (crocodile clip to be used as a slider or jockey).
- A micrometer screw gauge (may be shared).
- 5 connecting wires, two with crocodile clips at the end.
- One new dry cell size D.
- Cell holder.

QUESTION 2

EACH STUDENT REQUIRES

- ✓ Micrometer screw gauge (shared between 4 students)
- ✓ Vernier callipers
- ✓ Masses
- ♦ 10g
- 2-20g
- ◆ 50g
- 100g
- ✓ Helical spring (K = 0.08N/cm)
- ✓ Metre rule or half metre rule
- ✓ Complete retort stand





KCSE 2022 PREDICTION

SERIES 1

NAME	INDEX NO
SCHOOL	SIGN
DATE	

Kenya Certificate of Secondary Education (K.C.S.E) 232/3

PHYSICS

PAPER 3 (PRACTICAL) TIME: 2 ½ 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	





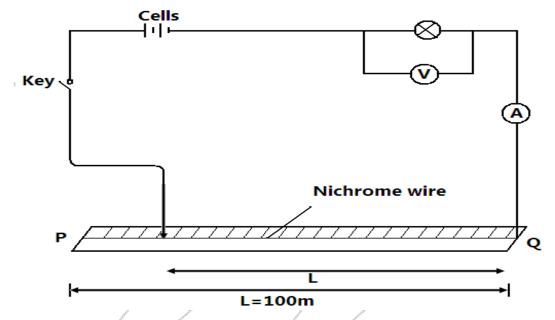
QUESTION 1 (20 MARKS)

You are provided with the following

- -Two dry cell
- -One bulb
- -Voltmeter (0 3V)
- -Ammeter (0 1A)
- -Amounted nicrome wire mounted on a millimeter scale
- -Switch
- -Seven connecting wire at least two with crocodile clips
- -Micrometer screw gauge

Proceed as follows:

a) i). Set up the circuit as shown in the figure 1 below.



ii) With the crocodile clip at p, take the voltmeter reading and ammeter reading. Record v and 1 repeat the readings for L=80, 60, 40, 20 and 0cm respectively and complete the table below.

(5mks)

Length, L(cm)	100	80	60	40	20	0
Voltage, V(V)						
Current, I (A)						

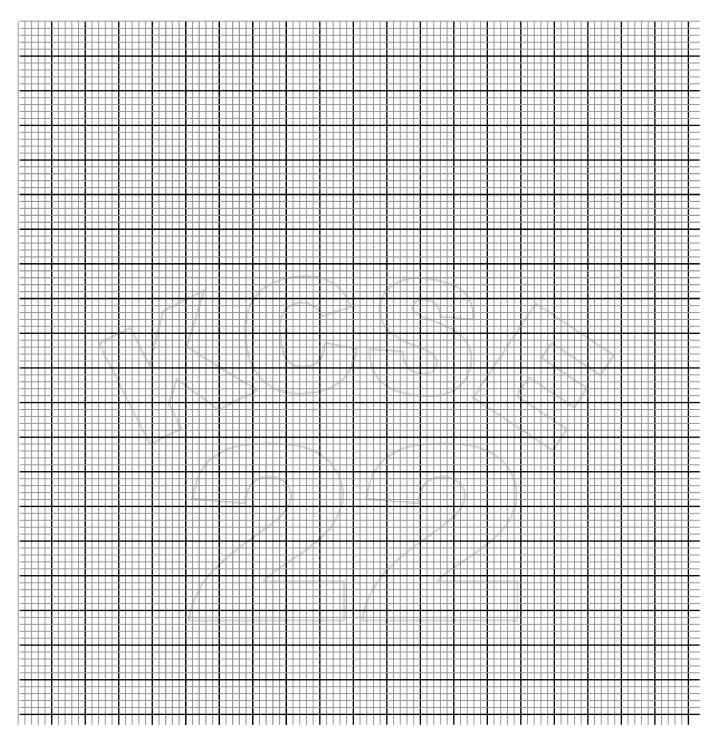
iii). What changes do you observe on the bulb as L decreases from p?	(1mrk)
	•••••





iv). Plot a graph of ammeter reading (y=axis) against voltmeter readings.

(5mrks)



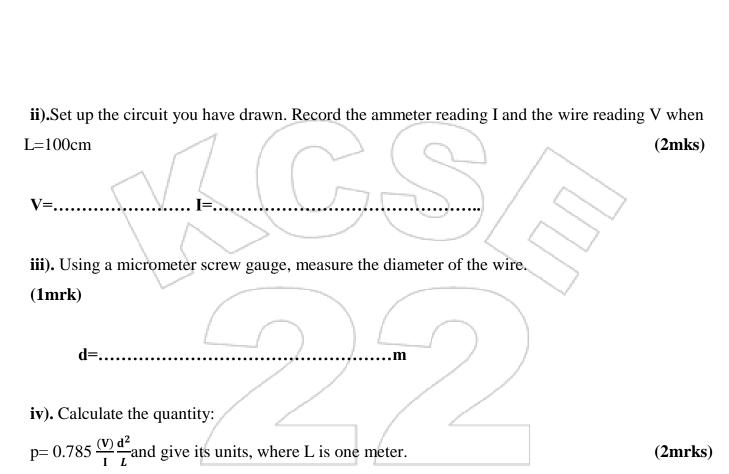
v). Determine the slope of the graph at V=1 volt.

(2mrks)





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rmine
mrk)
]







QUESTION 2

You are provided with the following:-

- Vernier callipers
- Micrometer screw gauge
- Masses; 10g, 20g, 50g and 100g
- A helical spring
- Metre rule or half metre rule

Proceed as follows

(a)	Determine the number of complete turns of the helical spring.	
N =		(1 Mark)
(b)	Measure the external diameter of the spring using the vernier calliper	rs
D=	m	(1 Mark)
(c)	Use the micrometer screw gauge to determine the diameter of the wi	re of the spring.
d =		(1 Mark)
(d)	Determine the value of m	(2 Marks)
N =	<u>0.4D</u>	
	dm	
• • • • •		• • • • • • • • • • • • • • • • • • • •

(e) Suspend the helical spring vertically alongside the clamped half metre rule as shown in figure 1 below. Determine the length L₀, of the spring before loading it.

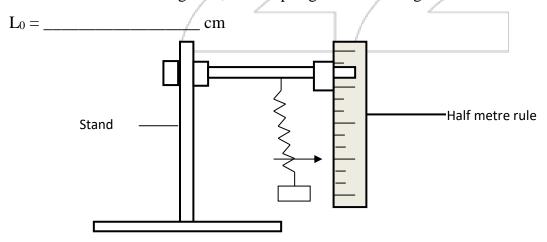


Figure 2

(f) Load the spring with a mass of 20g and determine the new reading on the metre rule. (L) Record this in the table below.





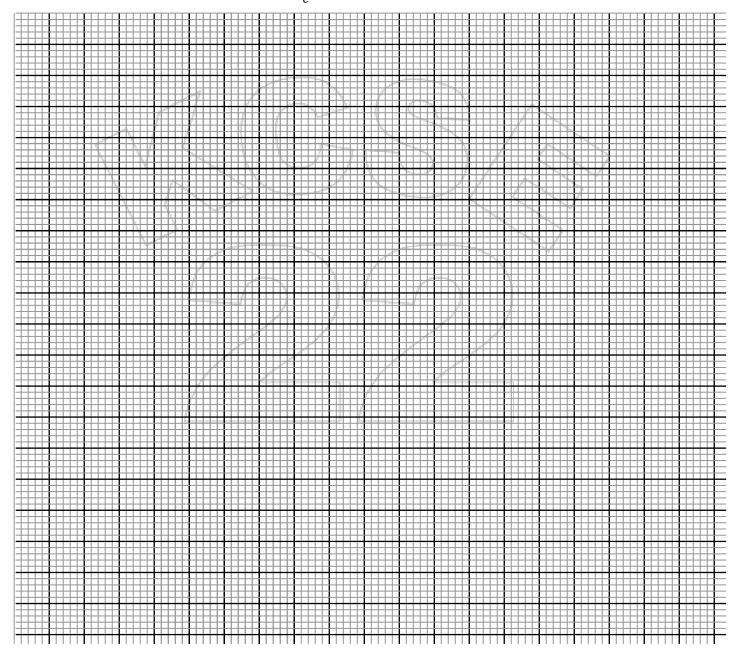
(g) Calculate the extension $e = L - L_0$ due to the mass of 20g and record the value in the table given below. Repeat step f for other masses and complete the table.

Mass (g)	0	10	20	30	40	50	60	70	80	90	100
Weight (N)											
Reading (L) (cm)											
Extension e (cm)											
$\frac{1}{e}$ (cm ⁻¹)											

(6 Marks)

(h) Plot a graph of weight (N) against $\frac{1}{e}$ (cm⁻¹)

(4 Marks)



(i) Determine the slope (s) of the graph at a mass of 45g

(2 Marks)





KCSE Predictions Marking Schemes - 0746 22	
•••••••••••••••••••••••••••••••••••••••	
•••••••••••••••••••••••••••••••••••••••	
(j) Given that $m = \frac{-255T}{(S+60)^2}$	
Determine the value of T where (S) is the slope at 45g	(3 Marks)
•••••••••••••••••••••••••••••••••••••••	
•••••••••••••••••••••••••••••••••••••••	
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KCSE 2022 PREDICTION

SERIES 1

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										121/1							
							M	AT	\mathbf{H}	EM		ΓΙ	CS				
PAPER 1 Time: 2½ Hours INSTRUCTIONS TO CANDIDATES. (a) Write your name and admission number in the space provided at the top of this page. (b) This paper consists of two sections; section I and section II (c) Answer ALL questions in sections I and only FIVE sections in section II (d) Show all the steps in your calculations; giving your answers at each stage in the spaces provided below each question. (e) Marks may be given for correct working even if the answer is wrong (f) Non-programmable silent electronic calculators and KNEC mathematical tables may be used. For examiners use only Section I																	
1	2	3	4	1	5	6	7	8	9	10	11	12	13	14	15	16	Total
Se	ctic	n II				-	-	•	-		-					•	
17		18		19		20		21	2	2	23		24		Total		Grand total
								SEC	TIO	N I (5	0 ma	rks)					





KCSE Predictions Marking Schemes - 0746 222 000 Answer all the questions in this section in the spaces provided.

1. Evaluate
$$\frac{-4\{(-4+-15\div 5)+-3-4\div 2\}}{84\div -7+3-5}$$
 (3 marks)

2. Simplify completely the expression:
$$\frac{6x^2y^2-20xy+16}{2x^2y^2-8}$$
 (3 marks)

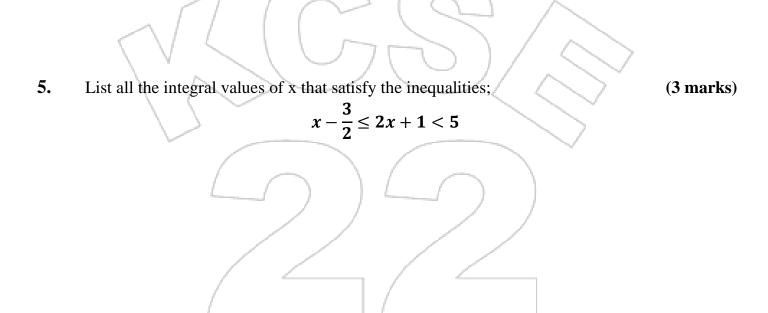
Given that $\cos \theta = \frac{3}{5}$, find $\sin \theta - \tan(90^0 - \theta)$ without using tables or calculator. (2 marks)



3.

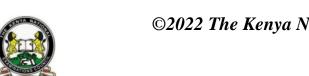


4. Under an enlargement, the images of points A(3,1) and B(1,2) are A¹(3,7) and B¹(7,5). Without construction, find the centre and the scale factor of enlargement. (4 marks)



A bus travelling at an average speed of x km/h left station at 8.15 am. A car, travelling at an

average speed of 80km/h left the same station at 9.00 am and caught up with the bus at 10.45 am.



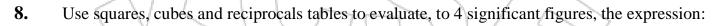
6.

Find the value of x.



(3 marks)

7. The interior angle of a regular polygon with 3x sides exceeds the interior angle of another regular polygon having x sides by 40° . Determine the value of x. (3 marks)





9. From a point 20m away on a level ground the angle of elevation to the bottom of the window is 27^{0} and the angle of elevation of the top of the window is 32^{0} . Calculate the height of the window.

(3 marks)





10	Solve for x in the equation: $5^{3y+3} + 5^{3y-1} = 125.2$	(4 marks)
TV.	Solve for x in the education, 3^{*} $+ 3^{*}$ $- 123.2$	(4 marks)

11. Mr. Kanja, Miss Kanene and Mrs. Nyaga have to mark a form three mathematics contest for 160 students. They take 5 minutes, 4 minutes and 12 minutes respectively to mark a script. If they all start to mark at 9.00 am non-stop, determine the earliest time they will complete the marking.

(4 marks)



12. Evaluate $4.\dot{4}\dot{1} - 0.\dot{2}\dot{1}$ (2 marks)





13. Two similar cylinders have diameter of 7cm and 21cm. If the larger cylinder has a volume of $6237cm^3$, find the heights of the two cylinders. (take $\pi = \frac{22}{7}$) (3 marks)

14. The cost of providing a commodity consists of transport, labour and raw materials in the ratio 8:4:12 respectively. If the transport cost increases by 12%, labour cost by 18% and raw materials by 40%, find the percentage increase of producing the new commodity. (3 marks)

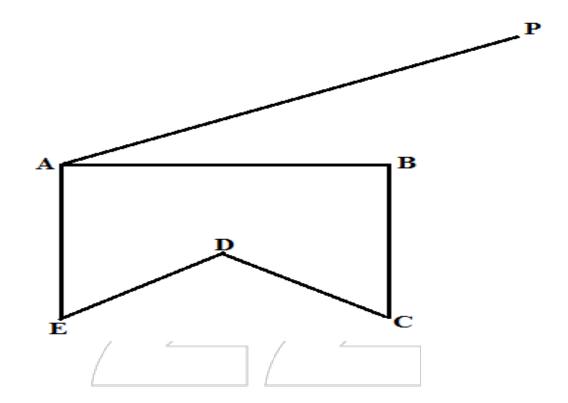


15. Given that $4\mathbf{p} - 3\mathbf{q} = {10 \choose 5}$ and $\mathbf{p} + 2\mathbf{q} = {-14 \choose 15}$, find value of \mathbf{p} and \mathbf{q} (4 marks)





16. In the figure below ABCDE is a cross-section of a solid. The solid has a uniform cross-section. Given that AP is an edge of the solid, complete the sketch showing the hidden edges with a broken lines. (3 marks)



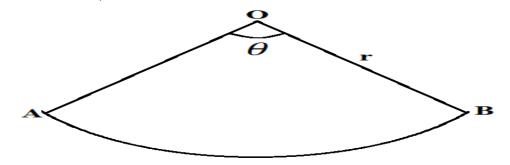




SECTION II (50 Marks)

Answer any **five** questions from this section in the spaces provided.

17. The figure below represents a sector of a circle radius r units. The area of the sector is 61.6 cm² and the length of the arc AB is one tenth of the circumference of the circle from which the sector was obtained. (Take $\pi = \frac{22}{7}$)



a) Calculate;

i) the angle θ subtended by the sector at the centre.

(2 marks)

ii) The radius r of the circle.

(3 marks)

- **b)** If the sector above is folded to form a cone;
- i) Calculate the base radius of the cone.

(2 marks)

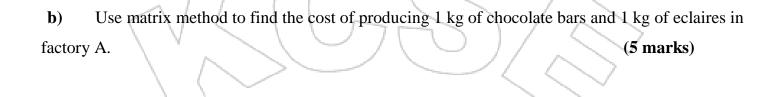
ii) The volume of the cone.

(3 marks)





- **18.** Two factories A and B produce both chocolate bars and eclairs. In factory A, it costs Kshs x and Kshs y to produce 1 kg of chocolate bars and 1 kg of eclares respectively. The cost of producing 1 kg of chocolate bars and 1 kg of eclairs in factory B increases by the ratio 6:5 and reduce by the ratio 4:5 respectively.
- a) Given that it costs Kshs 460 000 to produce 1 tonne of chocolate bars and 800kg of eclares in factory A and Kshs 534 000 to produce the same quantities in factory B, form two simplified simultaneous equations representing this information.
 3 marks)



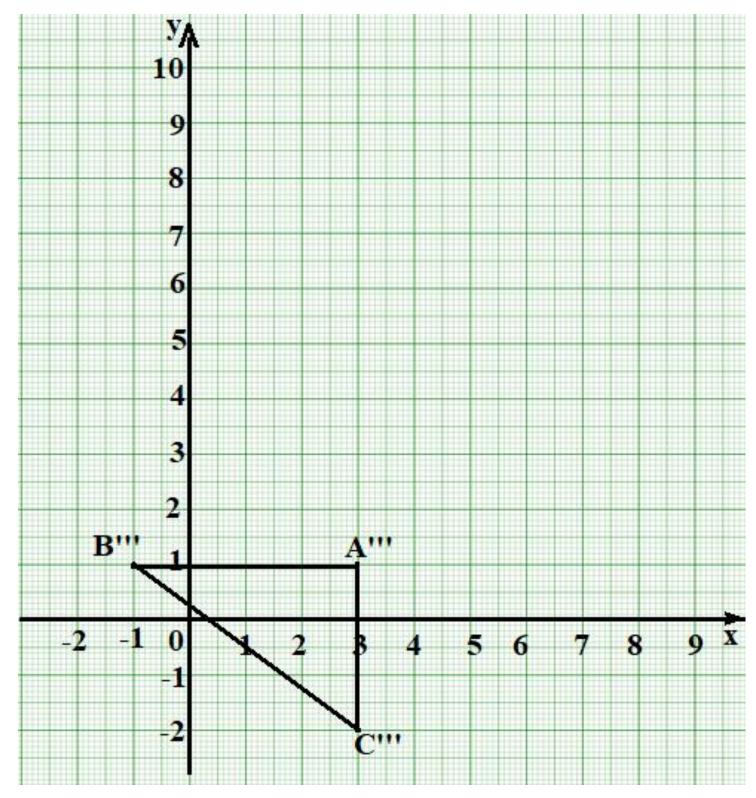
c) Find the cost of producing 100 kg of chocolate bars and 50 kg of eclaires in factory B.(2 mks)





- **19.** The vertices of triangle ABC are A(6,2), B(8,2) and C(6,0).
- a) On the grid provided below, draw triangle ABC.

(1 mark)



b) Triangle A'B'C' is the image of triangle ABC under a reflection in the line y = x. On the same grid draw triangle A'B'C' and state its coordinates (2 marks)



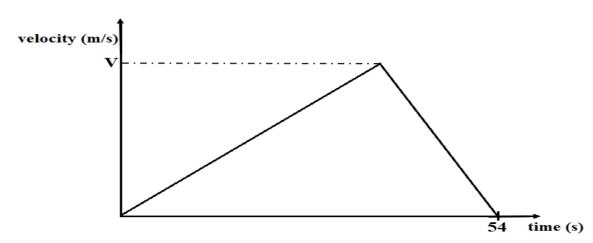


c) the cer	Triangle A"B"C" is the image of triangle A'B'C' under and enlarge ntre (-1,9). On the same grid, draw triangle A"B"C" and states its coor	
d) which	By construction, find and write down the co-ordinates of the centre can be used to rotate triangle A"B"C" onto triangle A""B""C" show	
e) i)	State any pair of triangles that are: Oppositely congruent.	(1 mark)
ii)	Directly congruent.	(1 mark)





20. The figure below shows a velocity-time graph of an object a which accelerates from rest to a velocity of V ms^{-1} then decelerated to rest in a total time of 54 seconds.



a) If it covered a distance of 810 metres;

i) Find the value of V.

(2 marks)

- ii) Calculate its deceleration, given that its initial acceleration was $1\frac{2}{3}ms^{-2}$ (2 marks)
- **b)** A bus left town X at 10.45 am and travelled toward town Y at an average speed of 60 km/h. A car left town X at 11.45 am on the same day and travelled along the same road toward Y at an average speed of 100km/h. The distance between town X and town Y is 500km.

i) Determine the time of the day when the car overtook the bus. (3 marks)



ii) Both vehicles continued towards town Y at their original speeds. Find how long the car had to wait in town Y before the bus arrived. (3 marks)





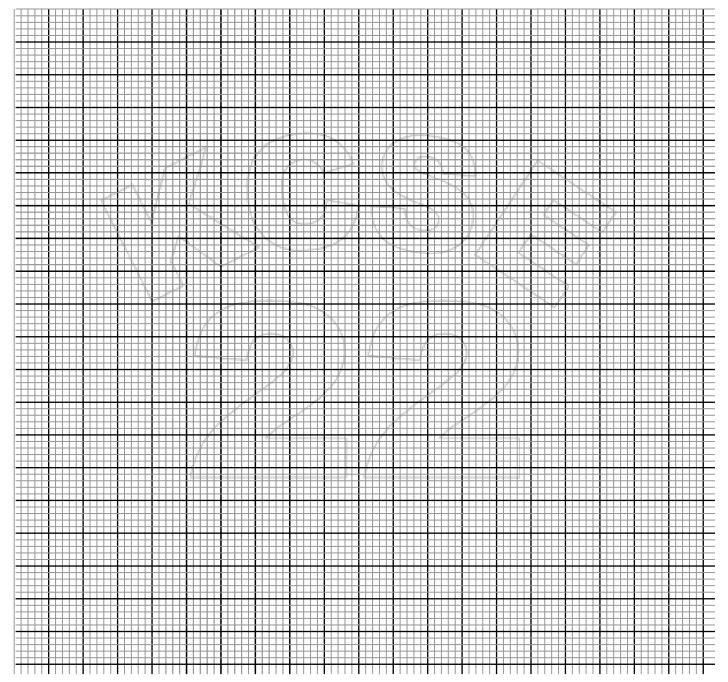
21. The masses to the nearest kilogram of some students were recorded in table below.

Mass(kg)	41-50	51-55	56-65	66-70	71-85
Frequency	8	12	16	10	6
Height of					0.2
rectangle					

a) Complete the table above to 1 decimal place.

(2 marks)

b) On the grid provided below, draw a histogram to represent the above information.(3 mks)



c) Use the histogram to:





- i) State the class in which the median mark lies. (1 mark)
- ii) Estimate the median mark. (2 marks)

iii) The percentage number of students with masses of at least 74kg. (2 marks)

22. (a) a straight line L_1 whose equation is 9y - 6x = -6 meets the x-axis at Z. Determine the coordinates of Z. (2 marks)

(b) A second line L_2 is perpendicular to L_1 at Z. Find the equation of L_2 in the form ax + by = c, where ,b and c are integers. (3 marks)



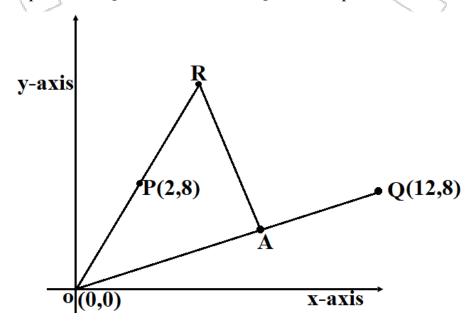


- (c) a third line L_3 passes through the point (2,5) and is parallel to L_1 . Find:
- i) The equation of L₃ in the form ax + by = c, where a, b and c are integers. (2 marks)

ii) The coordinate of point R at which L_2 intersects L_3 .

(3 marks)

23. In the diagram below, the coordinates of points O, P and Q are (0,0), (2,8) and (12,8) respectively. A is a point on OQ such that 4OA=3OQ. Line OP produced to R is such as OR=5OP.



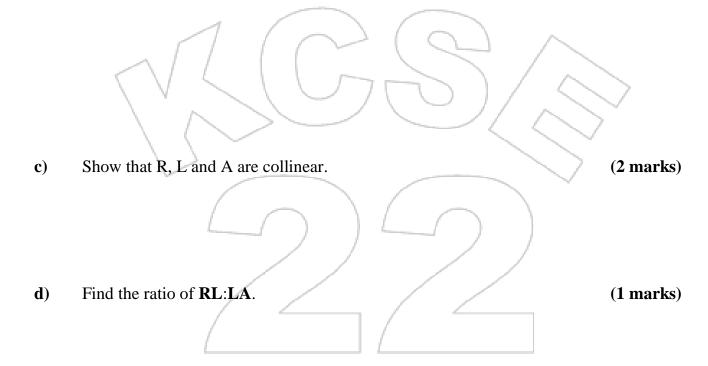
a) Find vector **RA**.

(3 marks)





b) Given that point L is on **PQ** such that **PL**: **LQ**=12:5, find vector **RL**. (4 marks)







- **24.** Five points, P, Q, R, V and T lie on the same plane. Point Q is 53km on the bearing of 055° of P. Point R lies 162° of Q at a distance of 58km. Given that point T is west of P and 114km from R and V is directly south of P and S40°E from T.
- a) Using a scale of 1:1,000,000, show the above information in a scale drawing. (3 mks)



- **b**) From the scale drawing determine:
- i) The distance in km of point V from R.

(2 marks)

ii) The bearing of V from Q.

- (2 marks)
- iii) Calculate the area enclosed by the points PQRVT in squares kilometers.







KCSE 2022 PREDICTION

SERIES 1

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17		18		19		20		21	,	22	23		24	T	otal		Grand total

SECTION 1 (50 MARKS)





1. Evaluate using squares, cubes and reciprocal tables (4 marks)

$$\left[\frac{1}{\sqrt[3]{27.56}} + \frac{3}{(0.071)^2}\right] -2$$

- 2. Make x the subject in $\frac{x^4 4}{x^2 2} = K$ (3 marks)
- 3. Ali deposited Ksh.100,000 in a financial institution that paid simple interest at the rate of 12.5% p.a. Mohamed deposited the same amount of money as Ali in another financial institution that paid compound interest. After 4 years, they had equal amounts of money. Determine the compound interest rate per annum to 1 decimal place. (3 marks)

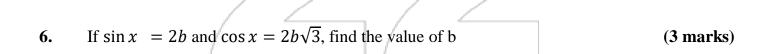




4. Simplify

$$\left(\frac{a^3 - ab^2}{a^4 - b^4}\right)^{-1}$$

5. Expand $(1 - 2x)^{\frac{1}{2}}$, hence find the value of $(1.02)^{\frac{1}{2}}$ correct to 3 significant figures. (3 mks)



7. Find the relative error in $\frac{a+b}{c-d}$ given that $a=77ml,\,b=23ml,$ $c=36ml,\,$ and d=16ml. (3 marks)



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8. Without using a calculator or mathematical tables, express

 $\frac{\sqrt{3}}{1-\cos^{3}0^{\circ}}$ in surd form and simplify.

(3 marks)

9. The equation $3x^2 - 8px + 12 = 0$ has real roots.

Find the value of P.

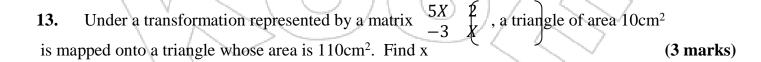
(2 marks)

10. A construction company employs 200 artisans and craftsmen in the ratio 1:3 every week. An artisan is paid 2 ½ times as much as a crafts man. At the end of 3 weeks the company paid ksh 1485000 to those employees. Find how much each artisan and each craftsman is paid. (a working week has six days)

11. A dam containing 4158m³ of water is to be drained. A pump is connected to a pipe of radius 3.5cm and the machine operates for 8 hours per day. Water flows through the pipe at the rate of 1.5m per second. Find the number of days it takes to drain the dam. (4 marks)



12. Two brands of coffee Arabica and Robusta costs sh.4,700 and sh.4,200 per kilogram respectively. They are mixed to produce a blend that costs shs.4,600 per kilogram. Find the ratio of the mixture. (3 marks)



14. Find the distance between the centre 0 of a circle whose equation is $2x^2 + 2y^2 + 6x + 10y + 7 = 0$ and a point B(-4,1). (3 marks)

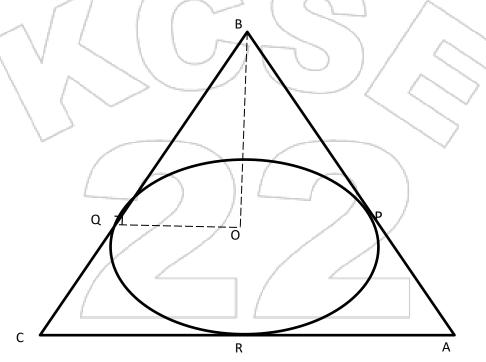
15. Solve for x in the equation:





$$(\log_2 x)^2 + \log_2 8 = \log_2 x^4$$
 (4 marks)

16. The figure below shows a circle inscribed in an isosceles triangle ABC. If Q, P and R are the points of contact between the triangle and the circle, O is the centre of the circle, BO = 19.5cm and BQ = 18cm. Find the radius of the circle and hence the length of the minor arc PQ. (3 marks)





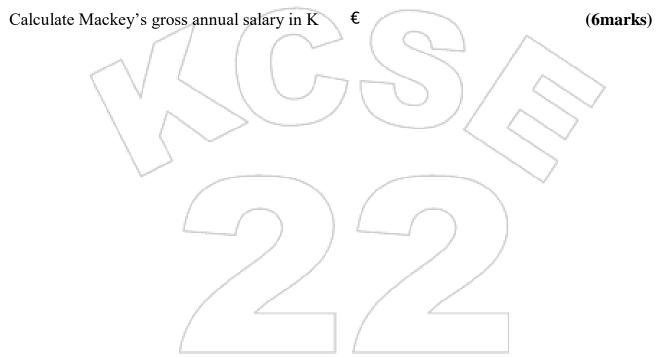


SECTION II (50 MARKS)

Answer Only Five Questions

17. (a) Mr. Mackey pays a tax of Kshs.5,800 per month according to the income tax table given below. He is married and entitled to a family relief of K 420p.a.€

Taxable income	Rate (Ksh pe£K)
(K € p.a.)	
1 - 9,600	2
9,600 – 19,200	3
19,201 – 29,800	5
29,801 - 38,400	7
38,401 - 47,200	9
Over 47,200	10



(b) The difference between compound interest and simple interest on Kshs.P over a duration of 36 months at the rate of 15% p.a. is Kshs.52,477.50. Calculate the value of P.

(4 marks)





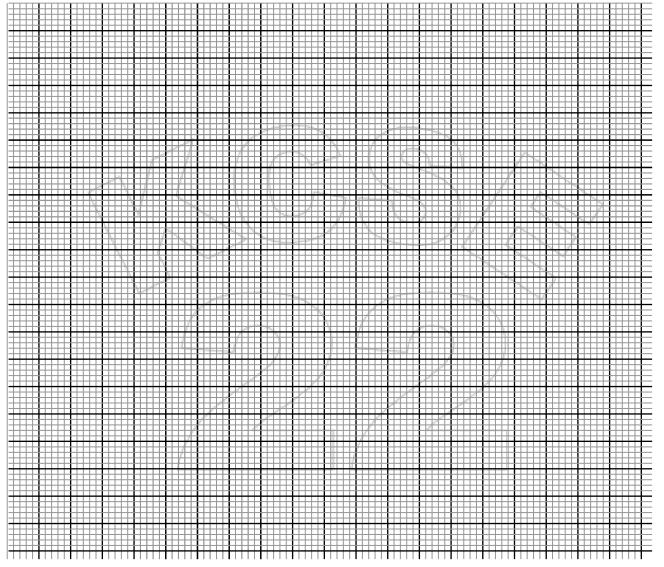
18. (a) Complete the table below for $y = x^3 + 4x^2 - 5x - 5$ (2 marks)

X	-5	-4	-3	-2	-1	0	1	2
У			19			-5		

- (b) On the grid provided, draw the graph of $y = x^3 + 4x^2 5x 5$ for $-5 \le x \le 2$ (3 marks)
 - (c) i) Use the graph to solve the equation

$$x^3 + 4x^2 - 5x - 5 = 0$$

(2 marks)



ii) By drawing a suitable straight line on the graph, solve the equation

$$x^3 + 4x^2 - 5x - 5 = -4x - 1$$

(3 marks)





19. OPQ is a triangle in which OP=P and OQ=q. x is a point on OP such that OP:XP=5:2 and y is another point on PQ such that PY:YQ=1:2. Lines OY and XQ intersect at T.

(a) Ex	press t	he fo	ollowi	ing v	ectors	in 1	terms	of P	and	a
١		, —	P		0 0 ,, ,			'				~

(i) PQ (1 mark)

(ii) OY (1 mark)

(iii) OX (1 mark)

(b) If OT = kOY and QT = hQX express OT in two different ways. Hence or otherwise find the values of h and k. (6 marks)



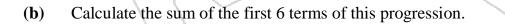
(c) Determine the ratio OT:TY (1 mark)





- **20.** If $(x 1^{1}/8)$, x and (x + 3/2) are the first three consecutive terms of a geometric progression;
- (a) Determine the values of x and the common ratio.

(4 marks)





(c) Another sequence has the terms

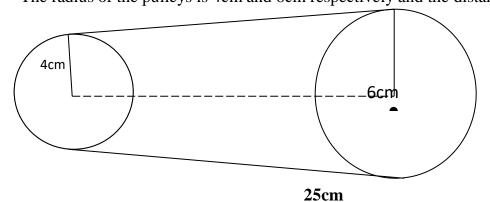
Find the sum of this sequence.

(3 marks)





21. The figure below shows a belt passing round two pulleys of centres A and B. The radius of the pulleys is 4cm and 6cm respectively and the distance between the centres is 25cm.



Calculate the length of the belt used for the pulley system.

(10 marks)







- **22.** The points P(2,1), Q(4,1) R(4,3) and S(3,3) are coordinates of a quadrilateral.
- (a) Plot the quadrilateral PQRS on the grid provided.

(1 mark)

(b) Find the coordinates of $P^1Q^1R^1S^1$ the image of PQRS under the transformation represented by

the matrix $M = \begin{pmatrix} 1 & 1 \\ 2 & 0 \end{pmatrix}$

(2 marks)

- (c) Draw and label $P^1Q^1R^1S^1$ on the same grid.
- (d) Find the coordinates of $P^{11}Q^{11}R^{11}S^{11}$ on the image of $P^{1}Q^{1}R^{1}S^{1}$ under the transformation

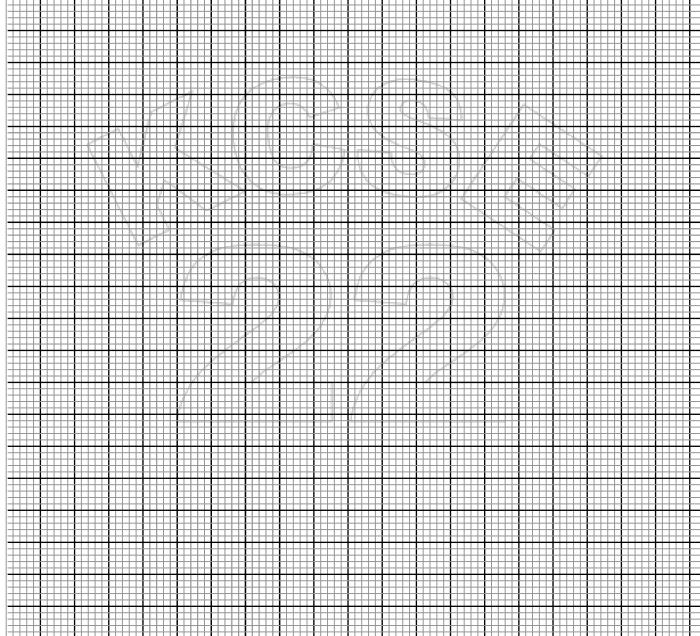
represented by the matrix $N = \begin{pmatrix} -2 & 1 \\ 0 & 1 \end{pmatrix}$

(2 marks)

(e) Draw and label P¹¹Q¹¹R¹¹S¹¹ on the same grid.

(1 mark)

(f) Determine the matrix that maps PQRS directly onto P¹¹Q¹¹R¹¹S¹¹. (3 marks)







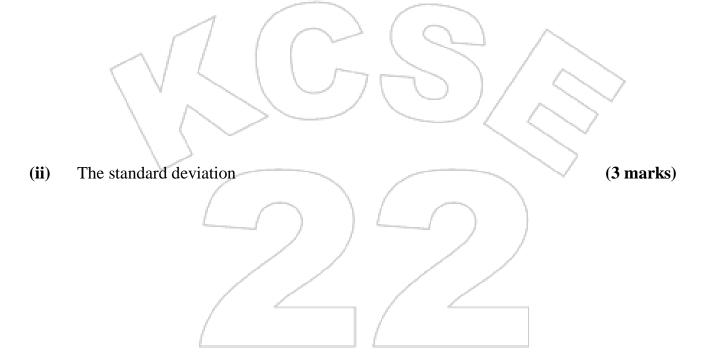
23. The table below shows the ages of people in years who attended a wedding ceremony.

Age in years	10-19	20-29	30-39	40-49	50-59	60-69	70-79
Frequency	2	4	4	8	6	3	2

(a) State the modal class (1 mark)

(b) Using an assumed mean of 44.5 calculate

(i) The mean age (3 marks)



(iii) The median age (3 marks)





- A supermarket is stocked with plates which come from two suppliers A and B. They are 24. bought in the ratio 3:5 respectively, 10% of plates from A are defective and 6% of the plates from B are defective.
- A plate is chosen by a buyer at randon. Find the probability that (a)

(2 marks) i) It is from A

It is from B and it is defective ii)

(2 marks)

It is defective (2 marks) iii)

Two plates are chosen at random. Find the probability that; **(b)**

Both are defective i)

(2 marks)

ii) At least one is defective (2 marks)





KCSE 2022 PREDICTION

SERIES 1

NAME	INDEX NO
SCHOOL	SIGN
DATE	

101/1

ENGLISH

(Functional Skills)

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	





1. QUESTION 1 : FUNCTIONAL WRITING (20 Marks)

Imagine that you are the secretary of the **COVID 19** prevention and control team. You hold a meeting to plan the prevention and control of the entry of the virus into your school upon the resumption of all the students after the nine-month-long break. Write the minutes that you took during the meeting that you attended regarding the same.

A non- member has been invited to the meeting. Four out of the twelve members are absent and no one knows their whereabouts. Two others had informed the chairperson that they would not attend. There were only three items of discussion.

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2. CLOZE TEST	(10 Marks)
	at a rate of 13 million hectares a year.
In 2), forests and of	ther deforestation accounts for about 17% to 20% of
3) global emissions.	The destruction of forests emits 1.6 Gt of carbon a
year, which severely 4) fo	rests capacity to absorb emissions from other
sources. However, the effects of deforestation ex	xtend beyond carbon. Rain forests
5) a wide variety of eco	system services from regulating rainfall to keeping
fertile soil from 6) D	eforestation damages food production and
7) to clean water in an entire	region. Rain forests are also home and a
8) of income for many peop	ble in Africa, Asian and South America.
9)this, economic pressur	es drive government in the developing world to
3. ORAL SKILLS (30MARKS)	rests in unsustainable ways.
(a) Read the poem below and answer the qu	uestions that follow.
Words going around and around Like in a washing machine, Only there in my head, I pluck one out and put it aside, There is more going around again, Through the dark tunnel the words continue to s The poem is almost done.	spread
Reading it out aloud stuttering as I go,	
I'm pleased with what I have done,	
Writing words I don't stutter	
As my oral words have done	
I'm glad I wrote this poem,	

Tracey McFayden

I can write what I can't say,

I've been given a voice.

And be understood in every way,





(i)	Identify the rhyme scheme of the poem.	(2marks)
••••		•••••
••••		••••••
(ii)	Other than rhyme, what two other mnemonic devices has the poet employ	ed? (4marks)
••••	•••••••••••••••••••••••••••••••••••••••	•••••
••••		•••••
••••		•••••
••••		
(iii)	How would you say the following lines in the poem?	(4marks)
	Line 1, stanza 1,	
b) L	ine 2, stanza 2,	$\checkmark$
••••		<i>3</i>
••••		•••••
••••		•••••
••••		•••••
••••		•••••
1		
Imac	gine that the school nurse has sent you to the principal's office to pass him un	gent information
	in the middle of a meeting and as you walk through the doors he rises and be	
	rds you.	ogins warking
	What two things must you do before you begin talking to him?	(2 marks)
••••		
••••		
••••		
<b>b</b> ) V	What two non-verbal cues will you employ to pass the message without distra	acting the on-going
meeti	ing?	(2marks)
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• • • • •		•••••
••••		•••••
5.	Pick the silent letters from the words listed below.	(4 marks)
	a) Subtle	
	b) Handsome	
	c) Nestle	
	d) Clothes	
6.	Indicate intonation in the sentences that are in bold.	(4 marks)
	Student: Sir, <u>I did not participate in the riots.</u>	
	Teacher: I can hear you, speak on	
	Student: Don't you believe me?	
	Teacher: Keep talking Allan. Why do you seem to doubt yourself?	
	Student: Alright, I just hope that you will be fair and just in your decision.	
	Teacher: Don't worry. Leave everything to me.	
	Student: Alright Sir.	
7.	From the following sets of words, pick the one with an odd sound.	(4 marks)
	i) B <u>ir</u> d h <u>ear</u> d c <u>ar</u> w <u>or</u> ld	
	ii) cup slap hut bud	
	iii) wi <b>dg</b> et swi <b>tch j</b> ourney <b>g</b> ender	
	iv measure pleasure azure sure	
•		
8.	Supply homophones to the following words.	(4 marks)
	New	
	Due	
	Fairy	
	Write	





## **KCSE 2022 PREDICTION**

## **SERIES 1**

NAME	INDEX NO
SCHOOL	SIGN
DATE	

101/2

# **ENGLISH**

COMPREHENSION, LITERARY APPRECIATION AND GRAMMAR

TIME: 2 ½ Hours

### **INSTRUCTIONS TO CANDIDATES**

- Write your Name, Admission number and class in the spaces provided above.
- Sign and write the date of examination in the spaces provided above.
- Answer all questions in this paper.

## FOR EXAMINERS USE ONLY.

QUESTION	MAXIMUM SCORE	CANDIDATE'S SCORE
1	20	
2	25	
3	20	
4	15	
TOTAL SCORE	80	





#### 1. COMPREHENSION ON UNSEEN TEXT:

**(20 MARKS)** 

There is statement that William Ellery Channing, a renowned theologian, made that sums up everything that books mean to those who love them. 'It is chiefly through books that we enjoy intercourse with superior minds.' He went on to say that great people talk to us and give us their most precious thoughts through books.

What William Ellery meant was that books are the greatest source of knowledge. If wehave to prosper, then we have to develop the urge, the thirst and the desire to read. People have really not understood the fact that the only way of shedding off ignorance, and making an informed and meaningful contribution to society is through acquisition of knowledge through reading.

It is sad to note that young people do not look up to widely read and knowledgeable people as their role models. They do not appreciate someone who has made accomplishments in the intellectual arena in the same spirit that they fall behind a sports personality or entertainment celebrity. Many young people imitate sports people and entertainers lavishly and look up to them as their only heroes and heroines.

The media is partially to blame for this **trend**. It has not always acted responsibly in the way it has featured personalities. In most cases, the media only features, as celebrities, people who excel in sports and entertainment. This ignores the fact that celebrities are found in all fields of life. Some of the personalities the media features, such as musicians and artists of dubious moral standing, alienate the youth from the grim realities of their society. Blinded by the glamour of the lives that the celebrities live, the youth lose interest in intellectual development.

Very few students in secondary school or even in universities are aware that reading can open up limitless possibilities to them. Some of those who have completed school or college education wrongly assume that the reading of books ends with the last examination one takes. Sooner or later such people become illiterate in thought. They stop being originators of ideas and turn into mere consumers of ideas because they are not close to the fountain of intellectual nourishment. What is the difference between them and those who have been unable to have access to education?

There must be sharing of ideas for development to take place. When people share ideas, they develop mentally as well as in other facets of life. There are very few reading clubs, meetings where members get together to exchange meaningful ideas acquired through reading. In their free time, people gather in social set-ups where nothing serious transpires. In bars, for example, there is no intellectual discourse that goes on.

**Obnoxious** and unimaginative exchange of obscene words can hardly measure up to anything constructive. The lack of interest in debates of national importance can be attributed to the bankruptcy of ideas as a result of the lack of a reading culture.





The truth of the matter is that books are capable of doing many things for us. Very few young people know that they can turn their grades from E's, D's and C's to B's and A's by simply reading books. If only they improve their ability to read, they will be able to open any door they choose to go through. Reading also instills in young people the skill of self-confidence that they need in the competitive world they are living in.

Reading activates and exercises the mind. It forces the mind to discriminate between good and evil, and pushes us to use our imagination, thus making us more creative. In a sense, reading actually does activate our minds in the same way we activate muscles when we lift weights. The more active our minds are, the more agile they become, which results in a higher level of creativity. Someone wisely pointed out that the mind, once stretched by a new idea, never returns to its original **dimensions**.

Development psychologists estimate that less than five per cent of us are still creative by the age of 18. By this age, many young people will have 'wasted' themselves watching television shows and films where images and sounds are already packaged and ready for them at the click of a button. They use little imagination because everything is done for them. They do not critically think about how to dress, think or behave. Consequently, they do not develop the habit of thinking for themselves.

1.	What is identified as the only way of shedding off ignorance?	(1 mark)
••••		
2.	In point form, list down the benefits of developing a reading culture.	(4 marks)
••••		
••••		• • • • • • • • • • • • • • • • • • • •
••••	•••••••••••••••••••••••••••••••••••••••	
••••	•••••••••••••••••••••••••••••••••••••••	•
3.	What is the media accused of in this passage?	(2 marks)
••••		



QUESTION



4.	Why do people who have completed school or secondary education stop reading?	(1 mark)
5.	What is necessary for development to take place?	(1 mark)
6.	Explain the meaning of the following words as used in the passage.	(3 marks)
(a)dii	mensions	
(b)	trend	••••••
(c)	obnoxious	
7.	Rewrite the following sentences according to the instructions given after each.	
	(a) It is chiefly through books that we enjoy intercourse with superior minds.	
	(Write in the interrogative form)	
	(b) Blinded by the glamour of the lives that the celebrities live, the youth lose	
intere	est in intellectual development. (Use:sothat)	(2 marks)
8.	How is reading similar to exercise?	(2 marks)
•••••		••••••
•••••		
9.	Why are there only less than five per cent of people still creative by the age of 18?	(2 marks)
•••••		
•••••		•••••





10.	What is the attitude of the writer towards media?	(2 marks)
•••••		•••••
•••••		•••••
•••••		• • • • • • • • • • • • • • • • • • • •

#### 2. BLOSSOMS OF THE SAVANNAH BY H.R. OLE KULET

#### Read the excerpt below and answer the questions that follow.

They were walking back from the homestead talking animatedly when they were accosted by a tall heavyset young man with a thick dark beard and moustache. He wore a pair of faded jeans and a dirty blue shirt. On his face was a wide imprudent grin. Taiyo glanced at the young man and looked away. She moved closer to Resian and nudged her to change direction. But the man walked directly to Taiyo. On seeing the man approaching, a heavy knobkerrie in his hand, Resian almost fainted.

"Please, do not harm us," she pleaded. "We do not have any money with us."

"Who told you I want any money?" the man jeered as he strode **menacingly** towards them." Are you the *intoiyenemengalana* from Nakuru town?" he asked laughing contemptuously. I want to have a good look at you and know what kind of stuff you are made off!" He roughly grabbed Taiyo's arm. "Leave my sister alone!" Resian hissed indignantly lifting her eyes and glaring into his. "Let go her arm at once!"

"Let go of my hand," Taiyo demanded, trembling with anger. "We are not the kind of women you have in mind!"

"What women!" the man retorted acidly. "Soon, you will be able to differentiate decent women from *intoiyenemengalana*.

Taiyo tried to wrestle her arm from the man's grip without success. But suddenly, he seemed to change his mind. With a sour smile, he spat and glared at the girls. Then releasing Taiyo's hand, he toldthem: "You have not seen the last of me. Soon you will come to know that there is no place in our society for women of your **ilk**." He turned and disappeared down the road as suddenly as he had appeared.

The two girls sighed heavily and shook their heads as they watched him walk away. Although they had put up brave faces, they were terribly shaken. "Thank God his intention—was not to rape us," Resian said tears streaming down her face. We would have been helpless in the hands of such a brute."

Taiyo bit her lower lip struggling to maintain control. "His intention could have been worse than rape." she said, tears of anger and indignation welling up in her eyes. "We would have been helpless in the hands of such a brute.





## **QUESTIONS**

(i)Place this excerpt in its immediate context.	(4 marks)
•••••••••••••••••••••••••••••••••••••••	
	••••••
(ii) "Soon you will be able to differentiate decent women from <i>intoiye</i>	
nemengalana." What does the man mean by this?	(2 marks)
	• • • • • • • • • • • • • • • • • • • •
	••••••
(iv) Identify two character traits of the man in this passage. Illustrate your answer.	(4 marks)
	••••••
	••••••
	••••••
/////	••••••
(iv) Give another word to replace the underlined word in each of the sentence below	
	2 marks
	•••••
	•••••
a) "Who told you I want any money?" The man jeered as he strode menacingly.	
b) Soon you will come to know that there is no place in our society for women of	your <u>ilk</u> .
c) "Taiyo bit her lower lip struggling to maintain control." Rewrite using a	
participle.	(1 mark)
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	•••••
	•
(v) Explain two stylistic devices evident in this excerpt.	(4 marks)
	•••••
a) Using an illustration from the excerpt, explain the plight of women in Nasila.	(2 marks)
	••••••
b) Identify any other issue highlighted in the excerpt.	(2 marks)
(v) From elsewhere in the text, identify instances where women are ill-treated.	
	•••••





#### **3. POETRY: (20 MARKS)**

#### Read the following poem and then answer the questions that follow.

#### In the city

All moving the lord knows where,

Dressed in suits and tatters,
Bowties, tights, ochred sheets and earrings,
All thinking of things to come,
Africa is in a state of opportunity,
All look for easy chances.

Of self- upliftment or underserved promotion
That often mirage further and further
Making frustrate
Minds that should be content.

It is a time of opportunity -

When one line makes a poet
And a little acquaintance or chance
Rockets one the highest office.

But the peasant, the pillar of the nation, Has only to cope with prices that shift Like the waves that rock the ship Carrying yellow maize to the city.

The employed call out strikes
That only deplete the little funds
That may relieve the peasant.

The elder brother keeps the younger in hunger At home, if there's any,
The child plays with an empty bottle,
Cries for more milk
When the cost is daily on the rise.

While the incomes remain static And the higher brackets are daily filled By youths that will not retire

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Within this century.

The child laughs gaily,
Displaying its only four teeth
That shows it grows to eat,
Unaware of all that shapes her decade

### Adapted from a poem by Joseph G. Mutiga

(a)	Who is the persona in the poem?	(2 marks)
( <b>b</b> )	Briefly describe what the poem is about?	(3 marks)
•••••		<u> </u>
(c)	Explain the significance of the first line in the poem.	(2 marks)
•••••		
(d)	Identify the aspect of style used in stanza six and show its effectiveness.	(3 marks)
•••••		
•••••	•••••••••••••••••••••••••••••••••••••••	••••••
(e)	Describe the kind of society presented in this poem.	(2 marks)
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<b>(f)</b>	What is the tone of the poem? Support your answer.	(3 marks)
•••••		•••••
•••••		•
(g)	Identify and discuss the use of sarcasm in the second last stanza.	(3 marks)
•••••		•••••
•••••		•
(h)	Explain the meaning of the following lines in the poem.	(2 marks)
	(i) Africa is in a state of opportunity.	
	(ii) The pillar of the nation.	>
3.	GRAMMAR: (15 MARKS)	
(a)	Rewrite the following sentences according to the instructions given. I	Oo not change
the n	neaning.	(3 marks)
	(i) Why did the thieves break into the apartment? (Rewrite in the pass	sive).
(ii)	The road has been graded. (Finish road)	
(iii)	Njenga told me that his sister is successful. (Use of in place of that).	





<b>(b)</b>	Cor	nplete the sentences below using	the correct form of the word in brackets.	
				(3 marks)
	(i)	Mary's face	twitched whenever she was overwhelmed.	
	(cor	ntinue)		
	(ii)	Such an ha	ad never been seen. (occur)	
	(iii)	When we saw the subject fidget	ing, we knew that he was gu	ıilty.
	(doı	ubt)		
(c )In	each	case, give a phrasal verb that m	eans the same as the underlined word.	
				(3 marks)
		(i) Did you meet your boss i	n town?	
		(ii) The suspect confessed af	ter a long interrogation.	
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
		(iii) Only very irresponsible p	parents can <u>abandon</u> their children.	
	( <b>d</b> )	Fill in the blank with the corre	ect preposition.	(3 marks)
		(i) The hotel is now open	its customers from six to six.	
		(ii) They congratulated him.	his good performance.	
		(iii) The guest arrived and sat	the host.	
	(e)	Choose the best alternative to	complete the following sentences.	(2 mks)
		(i) It was	who saw the accident first. (me, I)	
		(ii) How can you be so sure i	t was? (they, them)	
		•	· · ·	
	<b>(f)</b>	Correct the error(s) in the foll	owing sentence.	(1 mark)
		(i) Please don't dirtify the cl	ass.	





## **KCSE 2022 PREDICTION**

## **SERIES 1**

NAME	INDEX NO
SCHOOL	SIGN
DATE	

103/3

## ENGLISH

PAPER 3

TIME: 2 ½ HOURS

(CREATIVE COMPOSITION AND ESSAYS BASED ON SET BOOKS)

### **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.
- *h*) This paper consists of 3 printed pages.
- *i)* Candidate should ascertain that both pages are printed as indicated and that no question is missing.





### **QUESTIONS**

### 1. <u>IMAGINATIVE COMPOSITION (COMPULSORY)</u>

#### **Either**

(a) Discuss ways in which the youths in Kenyan schools can creatively fight corona pandemic.

(20 mks)

<u>Or</u>

(b) Write a story beginning;-

The birds had already started their morning songs and here I was wondering whether...

(20 mks)

### 2. **COMPULSORY TEXT**

"Nora is a riddle not just to Dr. Rank but to other characters as well." Validate this statement with evidence from a Dolls House by Henrick Ibsen. (20 mks)

### 3. OPTIONAL SET BOOKS

(a) Memories we lost and other stories. - Chris Wanyonyi

The irony of life is that those closest to you betray you the most. Discuss this statement in reference to "stones bounce on water." (20 mks)

(b) Drama.

Inheritance - David Mulwa.

Drawing your illustrations from the play, comment on Melissa's point of view that the crown Lulu places on Launa's head does not fit. (20 mks)





### (c )Novel

#### The Pearl – John Steinbeck

"Hypocrites and opportunists like to reap where they did not sow" Write an essay that agrees with the statement based on the novel, The Pearl. (20 mks)







## **KCSE 2022 PREDICTION**

## **SERIES 1**

NAME	INDEX NO
SCHOOL	SIGN
DATE	

### 102/1

## KISWAHILI

Karatasi ya 1 (INSHA)

Muda: saa  $1\frac{3}{4}$ 

### **Maagizo**

- (a) Andika insha mbili!
- (b) Insha ya kwanza ni ya lazima kisha chagua insha nyingine moja kati ya hizo tatu zilizobakia
- (c) Kila insha isipungue maneno 400
- (d) Kila insha ni alama 20
- (e) Kila insha lazima jandikwe kwa lugha ya Kiswahili

### Kwa matumizi ya mtahini pekee

Swali	Upeo	Alama
1	20	
	20	
Jumla	40	





### **MASWALI.**

#### 1. LAZIMA

Wewe ni mwandishi wa habari. Umemwalika mwenyekiti wa tume ya utangamano na uwiano wa kitaifa nchini studioni ili kuangazia kwa kina swala la ukabila ambalo limekita mizizi katika taifa. Andika dayolojia kati yenu.

- 2. Nchi imekubwa na mizozo mingi ya kijamii hivi karibini. Huku ukipendekeza suluhisho, jadili vyanzo vya mizozo hiyo.
- 3. Andika kisa kitakachodhihirisha maana ya methali: Nyumba njema sio mlango, ingia ndani uone.
- **4.** Tunga kisa kitakachoanza kwa maneno yafuatayo: Giza lilikuwa limechukua milki ya viumbe wote duniani. Nyota zilitoa mwanga hafifu na mwezi ulikuwa ushatua. Katika giza hilo la kaniki...





## **KCSE 2022 PREDICTION**

## **SERIES 1**

NAME	INDEX NO
SCHOOL	SIGN
DATE	

102/2

## **KISWAHILI**

Karatasi ya Pili LUGHA

Muda: Saa 2 1/2

#### Maagizo

- a) Andika jina lako na nambari yako katika nafasi ulizoachiwa hapo juu.
- b) Weka sahihi yako na tarehe ya mtihani katika nafasi ulizoachiwa hapo juu.
- c) Jibu maswali <u>yote.</u>
- d) Majibu yote yaandikwe katika nafasi ulizoachiwa katika kijitabu cha maswali.
- e) Majibu yote lazima yaandikwe kwa lugha ya Kiswahili

### Kwa Matumizi Ya Mtahini Pekee:

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





#### 1. UFAHAMU

### Soma kifungu kifuatacho kisha ujibu maswali

Ikolojia ni elimu ya kisayansi inayohusu uhusiano wa kimazingira kati ya vitu vyenye uhai (mimea na wanyama) na visivyokuwa na uhai (hali ya hewa na udongo.)Sayansi ya ikolojia ipo katika mfumo wa elimu ya mazingira. Mfumo huu umegawanyika katika sehemu mbili: mfumo wa mazingira ya nchi na mfumo wa mazingira ya majini (bahari, maziwa, mito na madimbwi)

Viumbe wamejirekebisha kulingana na mazingira yao. Kwa mfano, samaki wana matamvua yenye uwezo na kusharabu hewa ndani ya maji. Ng'ombe wana mapafu ya kuvuta hewa katika nchi kavu. Sehemu za mvua ya kawaida zina mimea yenye majani makubwa ili iweze kuhifadhi maji nyakati za shida. Mimea ,wanyama,udongo na viathiri vingine vya hali ya hewa vinahusiana sana kimazingira. Mimea huota kutegemea hali ya nchi, umbo au sura ya ardhi na aina ya udongo.

Hali ya nchi ni wastani wa hali ya jotoridi, wastani wa mvua, unyevunyevu hewani, upepo, msukumo na mwanga kwa muda wa miaka thelathini. Dunia imegawanyika katika kanda mbalimbali. Kila kanda ina mimea na wanyama wa aina yake kutegemea hali ya nchi. Ukanda wa istiwai una joto, mvua na unyevunyevu mwingi. Miti ya ukanda huu hufanya misitu minene, yenye miti mirefu. Miti hii ni mirefu kwa sababu ya msongamano unaofanya miti igombanie mwanga wa jua kwa kurefuka. Katika misitu hii, ipo mimea ya kangaga inayotambaa na kukwea miti mingine. Katika ukanda wa Savanna hali ya joto na mvua si kubwa kama katika ukanda wa istiwai. Kwa sababu hii, sehemu nyingi ni vichaka na nyika zenye uwezo wa kuota nyasi zisizohitaji mvua.

Upepo una faida na hasara katika mazingira. Upepo husaidia kusukuma mawingu yaletayo mvua. Upepo unapozidi hudhuru mimea na wanyama kwa sababu hukausha maji ardhini, huvunja na kuharibu mimea, huleta vifo kwa wanyama na pengine kuharibu mazingira ya watu. Mimea katika mazingira hutegemea sana nuru ya jua ili kutengeneza chakula chake. Kiasi cha mwanga upatikanao mahali fulani huathiri mimea na wanyama wapatikanao katika mazingira yale.

(a)	Eleza dhamira ya mwandishi katika taarifa uliyoisoma	(alama 2)
••••		•••••••••••••••••••••••••••••••••••••••
(b)	Eleza maana ya Ikolojia	(alama 2)





## KCSE Predictions Marking Schemes - 0746 222 000 Kwa nini wanyama huwa na sifa mbalimbali za kimaumbile? (alama 2) (c) Ni kawa vipi Ukanda wa istiwai unatofautiana na ukanda wa Savanna? (d) (alama 2) (e) Ni kwa namna gani upepo unaweza kuwa na athari mbaya kwa mazingira? (alama 4) **(f)** Eleza maana ya msamiati huu kama ulivyotumika katika kifungu. (alama 3) i.Matamvua

### 2. UFUPISHO

**iii.**Istiwai

ii.Kusharabu hewa

Dhuluma kwa wanawake sio matokeo ya siasa baada ya uhuru, bali ni matokeo ya hali iliyokuwepo tangu enzi za mababu zetu; kabla ya ukoloni. Kubaguliwa na kudhulumiwa kwa wanawake kisiasa kunaoana na kunyonywa kwake kijamii kunakoshuhudiwa siku nenda miaka rudi.

Elimu ya jadi ilimwandaa mwanamke kuwa chombo kitiifu cha mwanamume. Mwanamke aliandaliwa katika unyago na katika mfumo mzima wa malezi kuwa chombo cha kutumikia mwanamume-kumstarehesha, kumfariji, kumlisha na kumzalia watoto. Mwanamke tangu jadi hakuruhusiwa kushiriki katika shughuli za kisiasa na utawala wala hakuna mtu aliyeamini kwamba mwanamke angeweza kushikilia wadhifa wowote wa uongozi.

Demokrasia ya jadi naihusudu sana; ambapo wazee walikaa chini ya mbuyu na kuamua mambo ya jumuiya. Mahakama ya kijiji ilikuwa aghalabu ni ya wazee na ya wanaume pekee yao. Hakukuwa na





mwanamke aliyeshirikishwa, hata kama alikuwa ajuza. Sifa waliyokuwa nayo wanawake ni ile ya usihiri na uganga. Mwanamke yeyote aliyezeeka alidhaniwa kuwa bingwa wa uchawi, ulozi na ushirikina. Kwa hivyo, wanawake ndio waliokuwa washirikina wakubwa, maana fursa ya kupata elimu pana zaidi hawakuwa nayo. Si ajabu kuwa mwanamke alipojitokeza na kusema jambo la busara, alipuuzwa na pengine kutukanwa hadharani.

Kwa bahati nzuri, kumezuka mwamko uliotuingiza katika enzi mpya. Vita vya wanawake vya kujihami na kujiendeleza katika ulimwengu unaotawaliwa na wanaume vimetapakaa kote katika kila sehemu ya dunia. Wanawake wengi wamekiuka misingi na mizizi ya utamanduni na kung'oa asasi za kijamii na itikadi ambazo daima zimeendelea kumyanyasa na kumuumbua utu mwanamke tangu jadi. Watetezi wa haki za wanawake zamani walilaumu suala la serikali za mataifa mwaka hadi mwaka. Huku masuala ya wanawake ya kijamii, utu na utamaduni yakishangiliwa kupitishwa, watetezi wameeleza wasiwasi wao ikiwa kupitishwa kwa maazimio kutasaidia kuleta maendeleo ya haraka kwa wanawake kimataifa au katika nchi moja. Fauka ya hayo, baadhi ya wachunguzi wanaonelea kuwa maazimio mengi hayadokezi hatua za kufikiwa haki za wanawake.

Maazimio mengine yanazungumzia juu ya kuondolewa kwa ubaguzi dhidi ya wanawake, kushiriki kwao katika uendelezaji wa amani ya kimataifa na ushirikiano wa kimataifa, majukumu yao katika jamii, mfumo wa Umoja wa Mataifa wa wanawake na kuimarisha hadhi ya wanawake katika sekretariati ya Umoja wa Mataifa miongoni mwa shughuli nyingine katika mkabala huu.

Wanawake wameonyesha vipaji vyao katika nyanja mbalimbali za maisha; siasa, uchumi, utawala na kadhalika. Wanawake wamejikakamua na kudhihirisha kuwa wao pia wana jukumu muhimu la kutekeleza ili kuyaongoza maisha yao na ya watu wengi. Wadumishaji wa dhuluma za kijinsia hawana budi kusalimu amri na kuukubali ukweli huu, wapende wasipende. Mtazamo juu ya haki sawa unatokana na kukubaliwa na kuondolewa kwa aina zote za ubaya dhidi ya wanawake wanaojitolea mhanga kutetea hadhi yao pamoja na ya wanyonge wengine. Wao huonekana kama waasi, wapinga mila na watovu wa utii.

### **MASWALI**

a) Bila kubadilisha maan	a asilia, fupisha aya tatu	za kwanza. (Maneno 45-55)	(Alama 6)			
Matayarisho						
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b) Kwa kurejelea aya tatu :	za mwisho, pambanua	hoja muhimu zinaz	oguziwa na mwandi	shi. (Maneno
60-65)				(Alama 9)
Matayarisho	r			
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3. MATUMIZI YA LUGHA (Alama 40)	
(a) Andika neno lenye sauti zifuatazo:	(alam 1)
Kipasuo hafifu cha midomo, irabu ya mbele wastani, kikwamizo sighuna cha ut	fizi, irabu ya kati
chini.	
(b) Tunga sentensi moja moja yenye aina zifuatazo za vishazi:	(alama 2)
(i) Cha nia	

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(ii) Kitegemezi cha wakati	_
(c) Andika maana ya maneno yaliyopigiwa mstari.	(alama 2)
Wali <u>sita</u> kufanya kazi hiyo baada ya saa <u>sita</u> usiku.	(4.4
wan <u>sha</u> kutanya kazi myo baada ya saa <u>sha</u> usiku.	
(d) Tia shadda:	(alama 2)
i. pekee	(ш-шш =)
" perce	
ii. alinyongwa	\
n. annyongwa	√
(e)Huku ukitoa mfano, onyesha miundo mitatu ya maneno katika ngeli ya U-I	(alama 3)
(e)riuku ukitoa iirano, oriyesha iirundo iintatu ya maneno katika ngen ya 0-1	(alama 3)
	•••••
	•••••
	••••
	••••
	(-12)
Tunga sentensi yenye vijisehemu vifuatavyo vya sarufi:	(alama 2)
Kiambishi kiwakilishi cha kiima	
Kiambishi kiwakilishi cha wakati	
Yambwa	
Mzizi - dhiki	
Kauli ya kutendesha	
Kiishio	
	•••••





(g) Tumia neno dhahiri kama:	(alama 3)
i.Kitenzi	_
ii.Kivumishi	_
ii.Kielezi	-
(h) Huku ukitoa mifano, eleza miundo mitatu ya silabi za Kiswahili.	(alama 3)
•••••••••••••••••••••••••••••••••••••••	•••••
•••••	•••••
4 ( -	• • • • • • • • • • • • • • • • • • • •
(i) Tofautisha mzizi na shina kwa mifano.	(alama 2)
	•••••
	•••••
(j) Nyambua ziba katika kauli ya kutenduka kisha utungie sentensi.	(alama 2)
	• • • • • • • • • • • • • • • • • • • •
	• • • • • • • • • • • • • • • • • • • •
	•••••
(k) Bainisha hali zinazorejelewa katika sentensi hizi.	(alama 3)
(i) Mwangeka hufika kituoni mapema	
(ii) Mgonjwa angetibiwa angepona.	
(ii) Umekuwa nanasi, kutagia mibani?	
(I) Andika katika udaga wingi	(clama 2)
(I) Andika katika udogo wingi.	(alama 2)
Ugwe ulipitishwa juu ya ukuta uliomea uyoga na kufungiwa kwenye makuti.	

CHANGE OF THE PARTY OF THE PART

m) Onyesha kiarifu katika sentensi hii.	(alama 1)
Kilimia kimechomoka angani.	
n). Changanua kwa kielelezo cha mstari.	(alama 3)
Ndege aliruka angani ghafla.	
o) Ainisha Virai vinne katika sentensi ifuatayo.	(alama 2)
Kicha cha funguo kilikuwa kimepotea jana nikicheza kandanda.	
i	
ii	
V	





(q) Andika methali yenye maana sawa na jivu usilolilala usilipigie Jibwa.	(alama 1)
	•••••
(r) Andika upya sentensi ifuatayo ukianza kwa shamirisho kitondo.  Kaizari amewakatia ng'ombe majani kwa muundu.	(alama 2)
Kaizan anewakana ng omoe majam kwa muunuu.	
	•••••
	•••••
(s) Damka ni kwa rauka, wakati ni kwa oa ni kwa taliki uza	ni kwa
(alama 2)	
4. ISIMUJAMII (ALAMA 10)	
Tamu sana! Very sweet! Very nutritious! Onja ujionee! Nunua. Nunua leo. U	•
Mchukulie mtoto. Fifty na Fifty! Hamsa. Fifty. Bure kwa bure! Bei ya starehe!  (i) Tambua sajili hii	(alama 1)
(i) Tumouu sajin iii.	(ulullu 1)
ii) Eleza sifa tisa za sajili hii kwa kurejelea kifungu.	(alama 9)
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## **KCSE 2022 PREDICTION**

## **SERIES 1**

NAME	INDEX NO
SCHOOL	SIGN
DATE	

102/3

## KISWAHILI

KARATASI YA 3

**FASIHI** 

MUDA: 21/2

#### **MAAGIZO**

- a) Andika jina lako na nambari ya utahini katika nafasi ulizoachiwa hapo juu.
- b) Jibu maswali manne pekee.
- c) Swali la kwanza ni la lazima.
- d) Maswali hayo mengine matatu yachaguliwe kutoka sehemu zilizobaki; yaani, **Tamthilia**,

Hadithi Fupi, Riwaya na Ushairi.

- e) Usijibu maswali mawili kutoka sehemu moja.
- f) Majibu yote lazima yaandikwe kwa lugha ya Kiswahili

### Kwa matumizi ya Mtahini Pekee.

Swali	Upeo	Alama
1	20	
	20	
	20	
	20	
	Jumla	





### SEHEMU YA A : FASIHI SIMULIZI (ALAMA 20) SWALI LA LAZIMA

- b) Eleza maana ya; (alama 5)
- i. Vitanza ndimi
- ii. Tarihi
- iii. Vivugo
- iv. Matambiko
- v. Maapizo
  - c) Jadili mifano mitano ya ngomezi za kisasa.

(alama 5)

(alama 5)

**d**) Eleza tofauti kati ya vitendawili na methali.

(Alama 5)

### SEHEMU YA TAMTHILIA (ALAMA 20)

- 2. 'Wanaishia kuwa makabeji kwa kudungana sumu ya nyoka.'
- a) Eleza muktadha wa dondoo hili.

(alama 4)

b) Eleza sifa za msemaji wa maneno haya.

( alama 4)

- c) Thibitisha jinsi mwandishi wa tamthilia alivyofaulu kutumia mtindo wa kinaya. (al 8)
- d) Eleza changamoto zinazoikumba elimu.

(alama 4)

#### $\mathbf{A}\bar{\mathbf{U}}$

- 3. a) Tamthilia ya Kigogo ni taswira halisi ya matatizo yanayokumba mataifa mengi barani Afrika.Thibitisha. (alama 10)
- b) Huku ukitoa mifano, angazia nafasi chanya alizopewa mwanamke katika Tamthilia ya Kigogo. (alama 10)

### SEHEMU C:HADITHI FUPI (ALAMA 20)

#### Alifa Chokocho (Tulipokutana Tena)

- 4. "Ile haikuwa ziara ya muda mfupi ... palikuwa jahanamu kwangu."
- a) Eleza muktadha wa dondoo hili.

(alama 4)

b) Eleza sababu iliyomfanya mzungumzaji kuenda katika "ziara".

(alama 2)

c) Kwa kutolea hoja zozote kumi na nne, fafanua vile mzungumzaji alipitia "jahanamu".

(alama 14)





### SEHEMU YA D: USHAIRI (ALAMA 20)

Jibu swali la 5 au 6

#### 5. SIPENDI KUCHEKA

Pana jambo nanatukiya, kwangu hilo ni muhali Kitenda naona haya, kujishusha yangu hali Sipendi unipe hidaya, sipendi kutenda hili Sipendi mimi kucheka

Sipendi mimi kucheka , kuchekea mawa Sipendi ya dhihaka, kwangu nyemi hiwi Sipendi kwa hakika, mwovu kistawika

Halafuye nikacheka!

Maskini akiteswa

Yatima akinyanyaswa

Mnyonge naye akinyonywa

Sipendi hata ikiwa

Unazo nguvu najuwa

Ni hili sitatekezwa

Mbona lakini nicheke, kwayo furaha?

Na wewe ukajiweke, uli na siha

Na yatima pweke, wa anahaha?

Amenyimwa haki yake, hanayo raha!

Na moyo wangu ucheke, kwa ha! ha! ha!

Kucheka kwa kuchewa mimi katu sitacheka.

- a) Hili ni shairi la aina gani? Thibitisha jibu lako kwa kutaja mifano miwili. (alama 3)
- b) Kwa nini mshairi hataki kucheka. (alama 3)
- c) Eleza umbo la ubeti wa tatu wa shairi hili. (alama 4)
- d) Tambua nafsineni katika shairi hili. (alama 2)
- e) Tambua toni ya shairi hili. (alama 1)
- f) Dhihirisha matumizi ya uhuru ufuatao katika shairi hili. (alama 2)
- i. Tabdila
- ii. Kuboronga sarufi
  - g) Andika ubeti wa pili kwa lugha ya nathari. (alama 3)
  - h) Eleza maana ya misamiati ifuatayo kama ilivyotumika katika shairi hili. (alama 2)
- i. Hidaya
- ii. Nyemi





### Soma shairi lifuatalo kisha ujibu maswali.

Naingia ukumbini, nyote kuwakariria, Ushairi niwapeni, hoja nitawaachia, Mnipe masikioni, shike nachoeleza, Taifa sio taifa, pasi kuwa maadili.

6.

Naanza kwa uzalendo, nchi yetu tuipende Yadhihirishe matendo, nchi yetu tuipende, Wa kila mtu mwendo, usije kawa mpinde, Taifa sio taifa, pasi kuwa maadili.

Linda demokrasia, uongozi tushiriki, Haki kujielezea, wachotaka na hutaki, Changu naweza tetea, demokrasia haki, Taifa sio taifa,pasi kuwa maadili.

Tuwe na uadilifu, twache tamaa na hongo, Tusiwe na udhaifu, wa kuwa watu waongo, Tukomeshe uhalifu, kisha tuache maringo, Taifa sio taifa, pasi kuwa na maadili,

Ubinafsi si adili, ila ni kusaidia, Ukiwa nayo mali, asiye nacho patia, Kama mtu mswahili, ubinafsi mtu achia, Taifa sio taifa , pasi kuwa na maadili.

Na inavyoelezea,katiba ni kielezi, Tutii kwa mazoea, hadi kijacho kizazi, Kwa hayo nitamwachia, hiyo ya ziada kazi, Taifa sio taifa, pasi kuwa maadili.

a) Eleza mambo yoyote manne ambayo mshairi anashauri taifa lifanye ili kuwa na maadili.

(alama 4)

b) Eleza mtindo wowote ule uliotumika katika shairi hili.

(alama 2)

c) Ainisha shairi hili kwa kuzingatia vigezo vifuatavyo:

(alama2)

- i. Mpangilio wa vina
- ii. Vipande katika mshororo.
  - d) Bainisha nafsi neni katika shairi hili.

(alama 2)

e) Eleza toni ya shairi hili.

(Alama 2)

- f) Eleza umuhimu wa aina mbili za uhuru wa kishairi zilizotumiwa katika ubeti wa nne. (alama 4)
- g) Andika ubeti wa pili kwa lugha tutumbi.

(alama 4)





### **SEHEMU YA E: RIWAYA: CHOZI LA HERI (alama 20)**

7. 'Tawala Wahafidhina tawala, Mwanzi wetu tawala....'

a) Eleza muktadha wa dondoo hili . (alama 4)

b) Ni mbinu gani imetumika hapa. (alama 2)

c) Eleza makosa saba ya maneno haya. (alama 14)

 $\mathbf{AU}$ 

8. a) Jadili dhana ya **Chozi** katika riwaya ya Chozi laHeri. (alama 10)

b) Riwaya ya Chozi la Heri imejaa aina mbalimbali za migogoro. Jadili. (alama 10)







## **KCSE 2022 PREDICTION**

## **SERIES 1**

NAME	INDEX NO
SCHOOL	SIGN
DATE	

Kenya Certificate of Secondary Education

443/1

## AGRICULTURE

Paper 1
TIME:2 hours

### **INSTRUCTIONS**

This page consists of three sections A, B and C.
Answer ALL the questions in sections A and B and only two questions from section C.

## FOR EXAMINERS USE ONLY

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATE SCORE
A	1-15	30	
В	16-17	20	
С	18-20	40	





# KCSE Predictions Marking Schemes - 0746 222 000 SECTION A (30MKS)

## Answer ALL the Questions in this section

1) Give four advantages of large scale farming.	(2mks)
	•••••
	•••••
	• • • • • • • • • • • • • • • • • • • •
••••••••••••••••••••••••••••••••	• • • • • • • • • • • • • • • • • • • •
••••••	• • • • • • • • • • • • • • • • • • • •
2) a) Define nomadic pastoralism	(1mk)
1/02/01	
b) State <b>two</b> advantages of nomadic pastoralism.	(1mk)
	•••••
	•••••
	•••••
3) State <b>four</b> factors which determine soil depth.	(2mks)
	•
	• • • • • • • • • • • • • • • • • • • •
•••••••••••••••••••••••••••••••••••••••	• • • • • • • • • • • • • • • • • • • •
•••••••••••••••••••••••••••••••••••••••	•••••
	•••••
4) Give <b>four</b> natural factors that would encourage the gully erosion on a farm.	(2mks)
•••••••••••••••••••••••••••••••••••••••	•••••
•••••••••••••••••••••••••••••••••••••••	•••••
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5) State <b>four</b> ways in which trees help in soil conservation.	(2mks)
•••••••••••••••••••••••••••••••••••••••	•••••
•••••••••••••••••••••••••••••••••••••••	•••••
	••••••
5) State <b>four</b> disadvantages of communal land tenure system.	(2mks)
	•••••
•••••••••••••••••••••••••••••••••••••••	••••••
	••••••
(V, S(CO))/, S	>
7) State <b>four</b> factors that should be considered when selecting a forage crop species to .	
a given area.	(2mks)
	••••••
	•••••
	••••••
	•••••••
3) What do you understand by the following terms?	(3mks)
n) Seed dressing	
e) Seed inoculation	

*c*) Chitting





<b>9</b> ) G	ive <b>two</b> advantages of compound fertilizers	(1mk)
		•••••
		•••••
10)	State <b>two</b> effects of varying spacing in maize production.	(2mks)
		••••••
11)	State <b>four</b> symptoms of viral diseases in crop production.	(2mk)
		•••••
		•••••
12)	List <b>four</b> branches of livestock farming.	(2mks)
		•••••
		•••••
	•••••••••••••••••••••••••••••••••••••••	•••••
13)	Name <b>four</b> varieties of dry beans	(2mks)
		•••••
		••••••





14)	Give <b>four</b> precautions taken to prevent pest attack in stored produce.	(2mks)
15)	What is organic farming?	(1mk)
16)	SECTION B (20MKS)  Study the diagrams below carefully and answer the questions that follow.	
a)Io	dentify the pests labelled ${f A}$ and ${f B}$	(2mks)
u)10		
<b>b</b> ) \$	State <b>two</b> effects the pest labelled A causes on a maize plant.	(2mks)





c) List <b>three</b> effects of pest <b>B</b> in stores.	(3mks)
•••••••••••••••••••••••••••••••••••••••	••••••
d)State three methods of controlling striga weed.	(3mks)
	•••••
4 <b>8</b> \ 101 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	C C. 1
17) The diagram below shows a field management practice carried out on carefully and answer the question that follow.	a fruit crop. Study it
Insurgrees	Stack by Getty  Stack by Getty
a) Identify the practice	(1mk)
	••••••
<b>b</b> ) Give <b>two</b> reasons for carrying out the above practice.	(2mks
••••••	••••••





## KCSE Predictions Marking Schemes - 0746 222 000 c) State three reasons for storing beans after harvesting. (3mks)d) State three advantage of processing farm produce. (3mks) e) Define the term drainage. (1mk) **SECTION C (40MKS)** Answer any two questions from this section a)Describe eight farming activities that would encourage soil erosion **18**) (8mks)**b**) Describe the harvesting of cotton. (8mks)c) Describe seedbed preparation for carrot production. (4mks)a) Describe ten factors that would determine the nutrient content of hay. **19**) (10mks)

b)Describe **ten** advantages of using organic matter for mulching. (10mks)

20) a)Explain six morphological features of weeds that influence selectivity of herbicides.

(6mks) (5mks)

b)Give five disadvantages of zero grazing system.

c)Describe nine factors considered in the selection of planting materials. (9mks)





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## **KCSE 2022 PREDICTION**

## **SERIES 1**

NAME	INDEX NO
SCHOOL	SIGN
DATE	

443/2

## **AGRICULTURE**

PAPER 2

Time: 2 Hours

### **INSTRUCTIONS TO CANDIDATES.**

- a) Write your name & Index Number in the spaces provided.
- *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 the questions I Section A and B
- e) Answer two question from Section C.

## FOR EXAMINERS USE ONLY

SECTION	MAXIMUM	CANDIDATE
	SCORE	SCORE
A	30	
В	20	
С	40	





## **SECTION A (30MKS)**

## Answer ALL the Questions in this section

1)	State <b>four</b> causes of stress in poultry.	(2mks)
2)	State <b>four</b> factors that determine the amount of feed an animal consumes	(2mks)
		•••••
3)	State <b>four</b> advantages of artificial calf feeding.	(2mks)
4)	Name <b>two</b> methods of service in livestock breeding	(1mk)
5)	Name <b>two</b> species of camel.	(1mk)





<b>6</b> )	State four functions of vitamins in livestock body	(2mks)
••		•••••
••		•••••
<b>7</b> )	<b>Define</b> the following terms	(2mks)
(a)	Cockerel-	
(b) E	Broiler-	
(c) ]	Ewe-	
(d)	Kid—	
8)	List <b>two</b> main parts of a farm building.	(1mk)
••		•••••
<b>9</b> ) 	State <b>two</b> reasons why lubrication or greasing of farm machines is important	(1mk).
10)	Give <b>two</b> reasons for seasoning timber before it is used for construction.	(1mk).
 11) 	State the functional difference between a drenching gun and a bolus gun.	(1mk).
	Name <b>four</b> tools which a farmer uses for dehorning cattle. (2m	ks)
••		••••••





13)	List <b>two</b> reasons why bees are fed with syrup	(1mk)
14)	Differentiate between inbreeding and outbreeding	(1mk)
. 15)	Identify <b>four</b> abnormalities which can be identified in eggs through candling	ng (2mks)
16)	Name two dual purpose breeds of sheep	(1mk)
17) ·	State <b>four</b> factors which influences the rate of respiration in farm animals	
	Mention <b>four</b> preventive measures farmers uses to control diseases in anim	nals( <b>2mk</b> )





19)	State <b>four</b> harmful effects of lice in sheep.	(2mks)
••		
••		•••••
20) 	Name <b>two</b> examples of two host ticks.	(1mks)
••		•••••
21)	SECTION B (20MKS)  Answer all the questions in this section.  Study the diagram below and answer the questions that follows.	) —с
1660.0	Stock Stock Stock Stock Stock	
Iden	atify the tool.	(1mk)
 Nam	ne the parts labelled A,B,C	(3mks).
••		•••••





State	e <b>two</b> maint	enance practice	es of the tool a	lbove			(2mks)
••	•••••	•••••	••••••	••••••	••••••	••••••	••••••
22)	Using Pe	arson's square	method, comp	oute a 200 kg	ration with 2	20% DCP from	oats which
conta:	ins 10% D0	CP and sim sim					(3mks)
	•••••						
••							
23)	Study the	e illustration be	elow and answ	er the questio	ns that follo	w.	••••••
	\					J	
				// \			L
				K			
	141		1 12		_ f		 .ad
Iden	<b>tify</b> the par	ts labeled					(2mks)
(a)	J						
<b>(b)</b>	K						
(c)	L						
(J)	M						



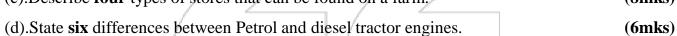


State <b>one</b> use of the part labelled L.	(1mk).
(c) State <b>one</b> reason why it is important to have the structure labelled M at the edg materials.	e of the roofing (1mk).
24) Below is an illustration of a sheep with parts marked E, F and G.	
F G G G G G G G G G G G G G G G G G G G	E
(a)State the operations that are carried out on the parts labelled	(2mks).
. EG	(2mks)
(c) At <b>what</b> age should the operation stated in E be carried out.	
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# KCSE Predictions Marking Schemes - 0746 222 000 (d).State two methods of carrying out the operation named in E. (2mks)

SECTION C (AOMES)	
SECTION C (40MKS)  Answer any two questions from this section	
25) (a). Give <b>nine</b> reasons why the battery cage system of rearing poultry is popular:	for used by
large scale poultry farmers.	(9mks)
Describe <b>five</b> management practices carried out on a fish pond.	(5mks)
Describe <b>six</b> symptoms observed on a calf heavily infested with internal parasites	(6mk)
26) (a)State six advantages of animal power over tractor power in seedbed preparation	on. ( <b>6mks</b> )
(b)Explain <b>nine</b> factors to consider in siting farm structures	(9mks)
	,
(c)State <b>five</b> importance's of farm buildings.	(5mks)
27) (a).Name two causes of pneumonia in livestock.	<b>(2mks)</b>
(b)State four predisposing factors of pneumonia disease in livestock	(4mks)
(c).Describe <b>four</b> types of stores that can be found on a farm.	(8mks)







# **KCSE 2022 PREDICTION**

### **SERIES 1**

NAME	•••••	•••••	••••	•••••	•••••	•••••	•••••	•	IN	DEX N	Ю	•••••	•••••	•••••
SCHOOL	• • • • • •	•••••	••••	•••••	•••••	•••••	•••••	••	SI	GN	• • • • • •	•••••	••••	• • • • • • •
DATE	•••••	•••••	••••	•••••	•••••	•••••	•••••	•						
	565/1													
PAPER 1 TIME: 2 HOURS  INSTRUCTIONS TO CANDIDATES  Answer all the questions in the spaces provided.  FOR EXAMINER'S USE ONLY														
Question	1	2	3	4	5	6	7/1	8	9	10	11	12	13	14
Marks														
Questions	15	16	5	17	18	19	20		21	22	23	24	4	25
Marks														
Total Mark	6													





### **QUESTIONS**

in	Outline four internal environment factors that may negatively influence the opera ess.	(4 marks
		_
		_
		_
') <u></u>		_
•	State the characteristic of human wants that match the descriptions given below:	(4 marks
	<b>Description</b> Characteristics	
	a)Satisfaction of one want automatically leads to creation of another	
	b)Some human wants are experienced by all human beings	
	c) Human wants can never be fully satisfied	
	d) After some wants are satisfied, they recur	
•	Give for reasons why direct production is undesirable in a country.	(4 marks)
)		_
)		_
i)		_
v)		_
	Highlight four reasons why the Kenyan government encourages entrepreneurship	in the
· ount		(4 marks)
		( I maris)
		_
		_
7)		_





Give four differences between a Public Limited Company and a Public Corporation. (4  Public Limited Company  i)  ii)  iii)  iii)  iii)			
Public Limited Company  i)  ii)  iii)  iiii)  iiii)			
Public Limited Company  i)  ii)  iii)  iiii)  iiii)			
Public Limited Company  i)  ii)  iii)  iiii)  iiii)	- 6 1'.66	oite d Community and a Politic Community	: (41
ii) iii) iiii) iiii) iiv)			ion. (4 m)
iii) iii) iii) iv)		_	
iii) iii) iv)		1)	
iv)	V.C.	(ii)	
		iii)	
		iv)	
Highlight four advantages of mail-order business. (4 ma	nlight four advantages of mail-order bu	siness.	(4 mar





	KCSE Predictions Marking Schemes - 0746 222 000
<b>9.</b> The following	ng balances were extracted from books Hussein trades on 30 th October 2019.
Cash	20,000
Bank	160,000
Premises	200,000
Debtors	40,000
Creditors	95,000
2 years loan	258,000
Stock	210,000
Prepare the balance	e sheet for Hussein Traders as at 30th October 2019. (5 mks)

<b>10.</b>	State four reasons for government involvement in business activities.	(4 marks)
i)		
••\		
iii)		
iv)		





11.	Outline four problems associated with boda boda (motor cycle)as a means of t	ransport.(4 mk)
i)		
ii)		
iii)		<del></del>
iv)		. <u></u>
12.	For each of the statements below, state the appropriate term as used in insuran	ce (4 marks)
12,	Statement Statements below, state the appropriate term as used in insurant	——————————————————————————————————————
	a)Specified amount of money paid at regular intervals by the	
	insured to the insurer for coverage against losses	
	b)People employed by an insurance company to compute expected	
	losses and value of premiums	
	c)Amount of money refundable to the insured by the insurer in cas	7
	the former terminates contract before it matures	
	d) Loss incurred by a business as a result of disruption of business	
	in the event of the insured risk occurring	
13.	Highlight four problems that would be experienced by consumers in the absen	ce of
wareh	nousing.	(4 marks)
i)		. <u></u>
ii)		
		<del></del>
iv)		
14.	State four benefits of advertising to a consumer.	(4 marks)
i)		
iv)		





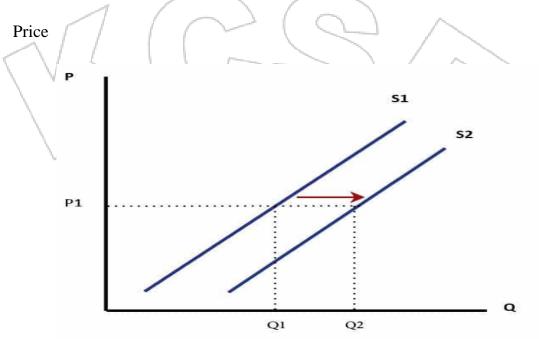
original entr	<b>7.</b>		(4 marks
Tra	nsaction	Source Document	
a)	Credit purchases		
b)	Sales returns		
c)	Cash sales		
d)	Cash purchases		
16. Outlidistributing li)ii)iii)	ne four circumstances that may make a tis goods.	producer to bypass the wholesaler w	hen (4 marks
<b>iv</b> ) <b>17.</b> High	light four external economies of scale t	that a firm may get as a result of grow	th in the
-8		, g	(4 mark

ii)		
iii)		_
iv)		_
- · / <u></u> -		_
<b>17.</b>	Highlight four external economies of scale that a firm may get as a result of grow	th in the
indust	ry.	(4 marks)
i)		_
ii)		_
iii)		_
		_
18.	Highlight four characteristics of oligopoly market structure.	(4 marks)
i)		,
/		-
		_
iv)		_





- KCSE Predictions Marking Schemes 0746 222 000
  19. State the type of unemployment relating to each of the following descriptions: (4 marks)
  a) Caused by alternating trading patterns occurring at similar times
  b) Arises where workers have more skills and higher qualifications than the job requirements
  c) Arises out of a mismatch between the skills possessed by potential employees and the location of the jobs available _______
  d) Arises when people are unwilling to take up jobs due to low pay _______
- 20. The diagram below shows a change in the supply of a product. Outline four factors which may have caused such a change. (4 marks)



Quantity

i)	
ii)	
iii)_	
iv)_	





21.	The following information relates to Jun	nbo Traders on 3	31/12/2020
Deta	ils	Shs	
Capi	Capital (31/12/2020)		
Net 1	oss	20,000	
Addi	tional Investments	420,000	
Mon	thly drawings	5,000	
	Determine the capital as at 1/01/2021		(3 marks)
22. i)	Outline four roles played by the Nairobi	Securities Exch	ange in the Kenyan economy.(4 mks)
/			
iii)			
iv)			
23.	Listed below is a set of transaction. In ea	ach case state wh	nether the transaction will increase,
decre	ase or have no effect on capital. (4)	marks)	
	Transaction		Effect
a)	Additional cash invested by the owner		
b)	Receiving cash from a debtor		
c)	Losses incurred by a business		
d)	Owner takes some stock for own use		





24			ur c	lisadvantaş	ges of an	ageing	populat	ion to a cou	ntry	<b>/</b> .		(4 marks)
25	. Gi	ven belo	w is	s a cash bo	ok extra	ct from t	he bool	ks of accoun	its c	of Patel En	terprises	·•
Dr											Cı	r•
	Date	Details	F	Discount	Cash	Bank	Date	Details	F	Discount	Cash	Bank
				allowed						received		
	2009			-0			2009					
	1/12	Bal b/d	1	-7	1,500	90,000	14/12	Bank	С		30,000	
	2/12	Rono	1	2,000	36,000	5	20/12	Equipment			>	80,000
	14/12	Cash	C			30,000	30/12	Drawings	The Robertson		7,000	
In	relation	to the e	ntri	ies appeari	ng in the	cash bo	ok extr	act, state the	e tra	nsactions	that took	place on
eac	h of the	followi	ng o	dates.		)		J )		)	(4 ma	rks)
a)	$2^{\mathrm{nd}}$	Decemb	oer :	2009	/			//		1		
b)	14	th Decem	ber	2009								
c)	20	th Decem	ber	2009								
<b>d</b> )	30'	th Decem	ber	2009								





# **KCSE 2022 PREDICTION**

### **SERIES 1**

NAME	INDEX NO
SCHOOL	SIGN
DATE	

# BUSINESS STUDIES

### PAPER 2

TIME: 2 ½ HOURS

### **INSTRUCTIONS TO CANDIDATES.**

- 1. This paper consist of six questions with section a and b.
- 2. Answer only five questions, both a and b in the writing material provided.
- 3. Indicate clearly the questions answered

### For examiner's use only

OUESTION	1	2	3	4	<u>5</u>	<u>6</u>
SCORE						

TOTAL	





### **QUESTIONS**

1.a) There has been rapid rate of unemployment over the years in Kenya. Explain **five** measures the government may put in place to curb this trend. (10 marks)

b) Explain **five** uses of national income statistics (10 marks)

2.a) Explain five benefits a country may get by locating industries in different parts of the country (10 marks)

b) Explain **five** differences between shares and debentures (10 marks)

3.a) Explain five principles that guide operation of insurance companies in Kenya.

(10 marks)

b)Explain five roles played by non-governmental organizations (NGOs) in protecting consumers

**(10 marks)** 

4.a) Explain five factors a business should consider while deciding on the office machine to buy

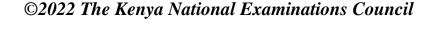
**(10 marks)** 

- **b.** The following information was extracted from the books of Bondo retailers in December 2019.
- **Dec 2:** Bought a computer worth sh.10, 000 on credit from digital traders.
- **Dec 5:** Bought office furniture worth sh. 5,000 on credit from office suppliers limited.
- Dec 11: Settled a debt owed to Kamau, a creditor by giving up stock worth sh. 6,000
- **Dec 15:** Sold a printer worth sh.15,500 for sh 18,000 to Kiamaiko ltd on credit
- **Dec 23:** Settled a debt of sh 200,000 owed to a creditor Omoka by giving up a motor vehicle Worth the same amount
- Dec 25. Sold an old set of chairs for sh 53,000 to Milele traders
- Dec 27: Sold a motor vehicle worth sh 87,000 for sh 80,000 on credit to Gitau
- **Dec 30:** realized that goods worth sh 10000 sold on credit to Muasya had been recorded in The books of account as sh 1000

Record the information in the relevant book of original entry

(10 marks)





- **5.a**) Explain **five** benefits a trader may enjoy by operating a unit shop (10 marks).
- b. Explain five reasons why the demand curve for second hand clothes may shift to theleft(10 marks)
- **6.a)** Explain **five** circumstances under which a business may decide to offer its customers after sale services (10 marks).
- **b**) On 1st May 2020, ,Kihenjo ltd had cash in hand sh.178,000 and a bank overdraft of shs.23,400. During the month, the following transactions took place:
- May 3: Cash sales sh 16,500 paid direct into the bank.
- May 4: Bought goods for sh.15,000 and paid by cheque.
- May 6: Cash sales sh.50, 000.
- May 9: Received a cheque for Sh.76, 500 from Mwikali in full settlement of her debts.
- May 13: Paid insurance premium sh.16,000 in cash.
- May 14: Paid Otieno by cheque Sh.9,700 in full settlement of his account having deducted 3% cash discount.
- May 21: Withdrew Sh 30,000 from bank for office use.
- May 23: Received a cheque of sh 23,750 from Kimani in full settlement of his account less 5% cash discount.
- May 25: Paid wages of shs. 20,000 in cash.
- May 26: Cheque received from Mwikali was dishonored, the bank charged sh 350.
- May 30: Banked all cash except Sh 3,000.

Prepare a three-column cash book duly balanced.

**(10 marks)** 





# **KCSE 2022 PREDICTION**

### **SERIES 1**

NAME	••••••	INDEX NO
SCHOO	DL	SIGN
DATE	••••••	
	313/1	
CH	RISTIAN RELIGIOU	SEDUCATION
INSTRUC	PAPER 1 TIME: 2 ½ HOU	RS
<i>1</i> .	There are <b>six</b> questions in this paper.	
2.	This paper has <b>three</b> pages.	
<i>3</i> .	Answer any <b>five</b> questions.	
<i>4</i> .	Each student must verify that all pages and que	estions are present in the paper.
<i>5</i> .	All answers must be in the answer sheets provide	ded.
6.	All answers must be in English.	

### FOR EXAMINERS' USE ONLY

Question	1	2	3	4	5	6	TOTAL
SCORE							





### Answer Any Five Questions

<b>1.a</b> )	Explain how the study of Christian religious education in schools promotes intern	ational
coopei	ration.	(7 marks)
<b>b</b> )	Give <u>six</u> reasons why the Bible had to be compiled into its present form by the ear	
Christ	ians.	(6 marks)
c)	State <u>seven</u> factors that discourage Christians from reading the Bible in the church	n today.
		(7 marks)
2.a)	With reference to Genesis 12:1 – 9 outline seven promises given to Abraham by C	God at the
time o	f his call.	(7 marks)
<b>b</b> )	Give <b>seven</b> reasons why God renewed the Covenant with the Israelites during the	time of
Moses	s (Exodus 34:1 – 35).	(7 marks)
c)	State <u>six</u> attributes of God as shown in the celebration of Jewish Passover.	(6 marks)
3.a)	Outline seven duties performed by Prophet Samuel in Israel.	(7 marks)
<b>b</b> )	Why did the people of Israel demand for an earthly King from Prophet Samuel?	(7 marks)
c)	Outline six factors that have affected the true worship of God today.	(6 marks)
<b>4.</b> a)	Describe the social-economic background of Prophet Amos.	(8 marks)
<b>b</b> )	Outline eight reasons why Israel would face God's judgement according to the tea	achings of
Prophe	et Amos.	(8 marks)



c)



(6 marks)

State  $\underline{\mathbf{six}}$  reasons why Christians repent their sins.

Give <u>any seven</u> religious challenges that Nehemiah faced in Judah.	(7 marks)
Explain <b>four</b> reasons that made Nehemiah to rebuild the wall of Jerusalem.	(8 marks)
What <u>five</u> lessons can a Christian learn from Nehemiah's reforms.	(5 marks)
Evoluin <b>four</b> factors that contribute to harmony and mutual responsibility in Tra	ditional
· · · · · · · · · · · · · · · · · · ·	
an Communities.	(8 marks)
Explain Traditional African view on land.	(6 marks)
Outline six ways in which Traditional African communities showed respect to the	eir dead.
	(6 mks)
	Explain <u>four</u> reasons that made Nehemiah to rebuild the wall of Jerusalem.  What <u>five</u> lessons can a Christian learn from Nehemiah's reforms.  Explain <u>four</u> factors that contribute to harmony and mutual responsibility in Train Communities.





KCSE Predictions Marking Schemes - 0746 222 000	
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# **KCSE 2022 PREDICTION**

### **SERIES 1**

NAME	INDEX NO
SCHOOL	SIGN
DATE	

313/2

# CHRISTIAN RELIGIOUS EDUCATION

PAPER 2

TIME: 2 ½ HOURS

Kenya Certificate of Secondary Education

### **INSTRUCTIONS:**

- 1. There are six questions in this paper.
- 2. This paper has three pages.
- 3. Answer any five questions.
- 4. Each student must verify that all pages and questions are present in the paper.
- 5. All answers must be in the answer sheets provided.
- 6. All answers must be in English.

### **FOR EXAMINERS' USE ONLY**

Question	1	2	3	4	5	6	TOTAL
SCORE							





### **QUESTIONS**

1. a). Basing your answer on the infancy narratives in Luke 1:5-56, describe what too	ok place
when Mary visited Elizabeth.	<b>(6mks)</b>
<b>b).</b> Identify six lessons that Christians learn from the lives of Zechariah and Elizabeth.	
	(6mks)
(c). State eight ways through which Christians in Kenya express their joy for the birth of	
	(8mks)
2. (a). Describe the incident when Jesus was rejected at Nazareth (Luke 4:16-30)	(7mks)
(b). Give four reasons why Jesus faced opposition from the Pharisees in Galilee (Luke 5	: 12-6: 11)
	(8mks)
(c). Mention five ways Christian leaders should respond to those who oppose them in the	ir work
	(5mks)
2 (a) Describe the triumanhout entry of Legys into Legys legy (Lyles 10:29, 40	(Grades)
3. (a). Describe the triumphant entry of Jesus into Jerusalem (Luke 19:28-40	(6mks)
b). Outline the events that took place from the time Jesus was arrested up to the time he v	
sentenced to die.	(7mks)
c). State seven lessons Christians learn from the suffering and death of Jesus.	( <b>7mks</b> )
4. (a) Explain how Peters life was transformed on the day of Pentecost	(6mks )
(b) Describe unity of believers expressed in the concept of the body of Christ	(7mks)
(c) Outline sevens in which the gifts of the Holy Spirit are misused in church today.	
	(7mks)





5.	(a) Identify seven causes of premarital sex among the youth today	(7mks)
<b>(b)</b>	Highlight the importance of children in traditional African communities.	(7mks)
(c)	Give six reasons why young people are choosing to remain unmarried in Kenya toda	ıy.
		(6mks)
6.	(a) State seven similarities in the traditional African view of work and Christian v	view of work
		(7mks)
<b>(b)</b>	Give seven reasons for the importance of manual work in Kenya today	(7mks)
(c)	Identify ways in which the church is helping to reduce the rate of unemployment	
		(6mks)





KCSE Predictions Marking Schemes - 0746 222 000
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# **KCSE 2022 PREDICTION**

### **SERIES 1**

NAME	INDEX NO
SCHOOL	SIGN
DATE	

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 two 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.

QUESTION	A	6	7	8	9	10	TOTAL
MARKS							





### **SECTION A**

### Answer all the questions in this section.

	State <b>three</b> reasons why it is important to study Geography.	(3 marks)
••••••		
(b)	What is the relationship between Geography and Agriculture?	(2 marks)
2.(a)	What is weather forecasting?	(2 marks)
•••••		
<b>(b)</b>	List three elements of weather.	(3 marks)
•••••		
3.	Study the diagram below and use it to answer questions (a) and (b) below:	
	Rock debris	
	Ground level	
( <b>a</b> ) Id	lentify the feature marked <b>X</b> .	(1 mark)
•••••		••••••





	KCSE Predictions Marking Schemes - 0746 222 000	
(b)	Describe how the feature is formed.	(4 marks
•••••		••••••
•••••		•••••
•••••		•••••
•••••		•••••
•••••		
<b>4.</b> (a)	What is karst landscape?	(2 marks
•••••		• • • • • • • • • • • • • • • • • • • •
• • • • • • •		• • • • • • • • • • • • • • • • • • • •
<b>(b)</b>	State <b>three</b> factors that influence the occurrence of underground water.	(3 marks
••••		
5.	The diagram below shows lowland glaciated features. Study the diagram and ans	wer
	ions (a) and (b).	W C1
questi	ions (a) and (b).	
	The state of the s	
	X	
		4
		1
(a)	What is an outwash plain?	(2 marks
(a)	What is an outwash plain:	(2 marks
•••••	•••••••••••••••••••••••••••••••••••••••	• • • • • • • • • • • • • • • • • • • •
•••••		••••••
•••••		••••••

<b>(b)</b>	Name the features marked U, V and W.	(3 marks)
•••••		•••••
• • • • • • • • • •		
• • • • • • • • • •		





### **SECTION B**

### Answer question 6 and any other TWO questions from this section.

<b>6.</b> St	udy the	map c	of Nyeri 1:50000 (shee	et <b>120/4</b> ) provided and answer the following q	uestions
(a) (i	i) Nan	ne the	two districts in the nor	thern part of the map extract.	(2 marks)
(ii) C	Give the	latitud	dinal extent of they are	e covered by the map.	(2 marks)
(iii)	Accord	ing to	the marginal informati	on provided in the map, what is the magnetic	variation of
the ar	ea whe	n the n	nap was drawn.		(2 marks)
(iv) (	Calcula	te the a	area of Nyeri forest on	the map. Give your answer in square kilome	tres. (2marks)
<b>(b)</b> [	Describe	e drain	age of the area covered	d by the map.	(5 marks)
(c) (	Citing e	videnc	e from the map, expla	in three factors that favours the growing of co	offee in Nyeri
area.			1		(6 marks)
<b>(d)</b>	Expl	ain <b>thr</b>	ee factors that have in	fluenced settlement in the area covered by the	e map.
	1	( )	$/$ $\langle$ $ $ $ $ $ $	MM)/()	(6marks)
		/			
7. (a)		\	iate between rocks and		(2 marks)
(ii)	Descr	ibe the	following characteris	tics of minerals.	
•	Colo	r.			(2 marks)
•	Hard	ness.			(2 marks)
	<b>(b)</b>	<b>(i)</b>	What are igneous ro		(2 marks)
		(ii)		ces between plutonic and volcanic rocks.	(3 marks)
	(c)	Desc	cribe the formation of t	the following rocks.	
		<b>(i)</b>	Mechanically forme	ed sedimentary rocks.	(3 marks)
		(ii)	Chemically formed	sedimentary rocks.	(3 marks)
	<b>(d)</b>	(i)	Identify the missing	type of rocks.	(3 marks)
		O	riginal rock	Metamorphic rock	
		Li	mestone	(i)	
		(ii		Graphite	
		G	ranite	(iii)	





(ii) Suppose you were to carry out a field study on rocks at the Kenyan coast. State *two* reasons as to why you would ask for permission from the school administration. (2marks)
(iii) What reasons would you give for the widespread of sedimentary rocks at the coastal plain? (3marks)
9. (a) (i) Name *three* types of river erosion (3 marks)
(ii) Describe the following river erosional presses.

• Abrasion (4 marks)

• Solution (3 marks)

(b) (i) What is river rejuvenation (2 marks)

(ii) Identify *three* features that result from river rejuvenation. (3 marks)

(c) (i) Name *two* types of submerged highland coasts. (2 marks)

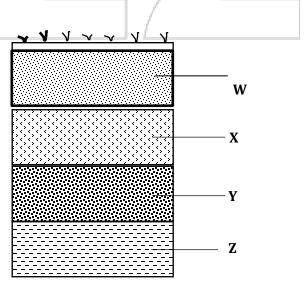
(ii) State *two* factors influencing deposition by ocean waters. (2 marks)

(d) Explain *three* significance of oceans to human activities. (6 marks)

10. (a) (i) Differentiate between soil texture and soil structure. (2 marks)

(ii) Apart from living organisms, name *four* other components of soil. (4 marks)

(b) The diagram below shows different layers of soil. Use it to answer questions (b) (i), and (ii)







(i)Na	(i)Name the soil layers $X$ , $Y$ and $Z$		
(ii) C	Give <i>two</i> main processes of soil formation which takes place in horizon W.		
		(2 marks)	
(iii) S	State <i>four</i> characteristics of soil in horizon X.	(2 marks)	
( <b>c</b> ) E	xplain how the following farming practices may result to loss of soil fertility		
<b>(i)</b>	Continuous irrigation.	(2 marks)	
(ii)	Over grazing.	(2 marks)	
(iii)	Over cultivation.	(2 marks)	
(d)	Explain ways in which natural vegetation may prevent soil from erosion.	(4 marks)	







# **KCSE 2022 PREDICTION**

### **SERIES 1**

NAME	INDEX NO
SCHOOL	SIGN
DATE	

312/2

# GEOGRAPHY

PAPER 2

TIME: 2¾ HOURS

### 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.

QUESTION	A	6	7	8	9	10	TOTAL
MARKS							





# **QUESTIONS**

1. a)	What is Human Environment?	(2 mks)
•••••		••••••
••••••	•••••••••••••••••••••••••••••••••••••••	••••••
b)	Identify three areas of study under Human Environment.	(3 mks)
••••••		
2. a)	The diagram below shows the occurrence of petroleum in the earth's crust.	
Name	the substances labelled L, M and N.	(3 mks)
•••••		••••••
<b>b</b> )	Give two by-products obtained when crude oil is refined.	(2 mks)
•••••	•••••••••••••••••••••••••••••••••••••••	••••••
CAYA MATA	©2022 The Kenya National Evaminations Council	STUTA TATA





<b>3.</b> a)	State three environmental conditions which favour commercial beef farming in K	enya.
		(3 mks)
•••••		•••••
• • • • • • •		•••••
• • • • • • •	••••••	•••••
1 \		(2 1 )
b)	Name <u>two</u> exotic breeds of cattle reared in commercial ranches in Kenya.	(2 mks)
•••••	•••••••••••••••••••••••••••••••••••••••	•••••
• • • • • • •	•••••••••••••••••••••••••••••••••••••••	•••••
• • • • • • •	•••••••••••••••••••••••••••••••••••••••	•••••
<b>4.</b> a)	Give <u>two</u> reasons why wildlife conservation is encouraged in Kenya.	(2 mks)
•••••		•••••
• • • • • • •		•••••
• • • • • • •		•••••
b)	Apart from national parks, outline three other ways in which wildlife is conserved	l in Kenya.
		(3 mks)
•••••		•••••
• • • • • • •		•••••
• • • • • • •		•••••
5 .a)	Name two polders that were created in Zulderzee project.	(2 mks)
•••••		••••
		••••
<b>b</b> )	State <b>three</b> ways in which the salinity of the polders is reduced in the Netherlands	s (3 mks)
~)		. (
• • • • • • •		•••••
• • • • • • •		•••••





### **SECTION B**

Answer question six (6) and any other two questions from this Section.

**6.** The data below represents crop exports from Kenya between 1995 and 1998. Use it to answer the questions that follow: -

Crops/Year	1995	1998
Maize	224	286
Coffee	168	310
Tea	320	368
Others	200	461
Total	912	1,445

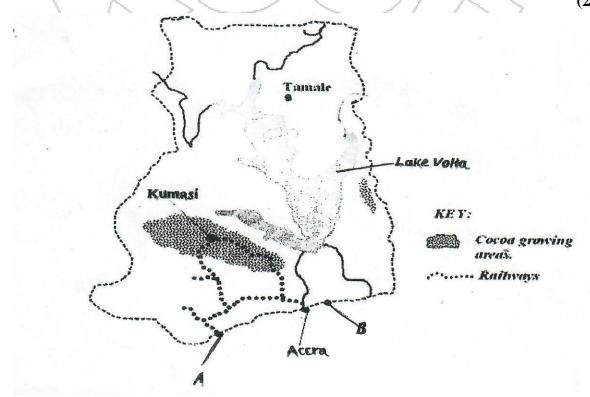
a) Using a scale of 1 cm represents 10 units, prepare proportional divided circle from the data above using the square root method. (9 mks)

**b.i**) Name two varieties of coffee grown in Kenya. (2 mks)

ii) State three reasons why Brazil leads in the production of coffee. (3 mks)

c) Discuss the processing of sugarcane after harvesting. (6 mks)

**d.i**) The map below represents cocoa growing areas in Ghana. Identify the towns marked A and B. (2 mks)



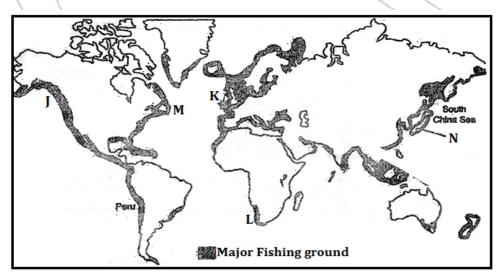
- ii) Give the reasons for each of the following stages in the processing of Oil palm. (3 mks)
- Steaming
- Stripping
- Pulping





<b>7. a.i</b> ) Apart from Coniferous forest, name two other types of natural forests.		(2 mks)
	ii) State two characteristics of Coniferous forests.	(2 mks)
b)	Explain four factors that favour the exploitation of softwoods in Canada.	(8 mks)
c) i	List <u>any four</u> indigenous softwood tree species that grow on the Kenya highlands.	(4 mks)
ii)	State three problems facing forestry in Kenya.	(3 mks)
d)	Your class intends to carry out, field study on forestry in Karura Forest.	(3 mks)
i)	List three objectives of your study.	(3 mks)
ii)	List three types of sampling techniques used during filestury.	
<b>8.a. i</b> ) Name any two types of fishing.		(2 mks
	ii) What is fish farming?	(2 mks)
b)	Describe harpooning as a method of fishing.	(4 mks)

c) The map below shows the major fishing grounds of the world. Use it to answer questions (i) and (ii).



- i) Name the fishing grounds labeled J, K, and M. (3mks)
- (ii) Explain **three** physical factors that have favoured fishing along the grounds marked N. **(6mks)**
- (d) Explain **four** measures being fronted by the Kenya government to reduce overfishing in Lake Victoria. (8 marks)





- 9. (a) Identify three sources of non-renewable energy. (3 mks)
- b) State **thre**e advantages of biomass as a source of energy. (2 mks)
- c) Apart from the HEP projects in Kenya and Uganda, name three other HEP projects in Africa.

(3 mks)

**d i**) What is energy crisis?

(2 mks

- ii) Explain four ways in which energy crisis has impacted on developing countries. (8 mks)
- e) You are planning to carry out a field study on hydro- electricity production in the Kenyan seven folks dam.
- i) State **two** types of hypotheses you would use for the study . (2mks)
- ii) What are possible follow-up activities that you will be involved in after the study? (3 mks)
- iii) Give two reasons why you would require a route map. (2mks)

10. The table below shows the population of a country in Western Europe in '000's. Use it to answer Part a - c.

Age Group	Male	Female
0-9	460	455
10 – 19	447	449
20 - 29	630	632
30 – 39	635	639
40 – 49	610	615
50 – 59	541/	563
60 – 69	470	468
70 – 79	460	459
80+	451	453

a)Using a scale of 1 cm to represent 100,000 people, draw a population pyramid from the above data. (10 mks)

**b**) Give <u>five</u> characteristics of the above population structure shown by the pyramid. (5 mks)

c)Explain three problems likely to be experienced due to the population trend in the above country. (6 mks)

ii)State four causes of urban-urban migration. (4 mks)





## **KCSE 2022 PREDICTION**

### **SERIES 1**

NAME	INDEX NO
SCHOOL	SIGN
DATE	

#### 311/1

## HISTORY AND GOVERNMENT

#### PAPER 1

TIME: 2 1/2 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 (25 MARKS)**

## Answer all the questions

1. Distinguish the term pre-history from history.	(2mks)
	•••••
2. Give two characteristics of historical event.	(2mks)
	••••••
$A(\Omega)(\Omega) \wedge$	
3. Which is the main method historian use to obtain historical information about Kenyan	
communities.	(1mark)
	••••••
4. In what two ways has the HIV/AIDS pandemic contributed to food shortages in Kenya	(2mks)
	••••••
	••••••
5. What was the main reason for the migration of the Eastern Bantu from Shugwaya durin	
Pre-colonial period.	(1mar
6. Name the community classified as southern cushite in Kenya.	(1mk)
	•••••





7. Give the evidence that proofed that the Greeks were amongst the early visitors to the coast upto 1500.	e east African (1mk)
8. Give <b>two</b> reasons why Kenyan Communities fought against each other during the properiod. (2 r	narks)
9. Identify the two main items of trade from the interior of Kenya during the long dista (2 marks)	nce Trade.
	•••••
10. Name one treaty that led to the abolition of slave trade in East Africa.	(1mark)
11. Give the meaning of the term Human rights.	(1mark)
12. Give one negative methods of conflict resolution.	(1mk)
13. What constitutional amendment made Kenya return to a multi-party state?	(1 mark)





<b>15.</b>	Identify two economic benefits of the Kenya-Uganda railway during the color	nial period.
		(2 marks)
•••••		•••••
•••••		•••••
•••••		•••••
<b>15.</b> Sta	ated two powers granted to the Imperial British East Africa Company through t	he royal charter
of 1888	<b>).</b>	(2mks)
•••••		•••••
•••••		•••••
•••••		•••••
<b>16.</b> Giv	ve <b>two</b> ways through which the colonial government acquired land in Kenya d	uring the
Colonia	al period.	(2 marks)
•••••		•••••
•••••		•••••
••••••		•••••
<b>17.</b> Sta	ate one change introduced by the Lyttleton constitution of 1954 that benefitted	the Africans in
the stru	ggle for independence.	(1 mark)
• • • • • • • • •		

### Answer any three questions

- 18. a) Outline five features of the earliest people who occupied Kenya. (5Marks)
  - b) Describe the economic organization of the Akamba during the pre-colonial period. (10mks)





19. a) State five factors that facilitated the spread of Christianity in East Africa.	(5marks)
<b>b</b> ) Discuss five positive effects of slave trade on people of East Africa.	(10mks)
20. a) Outline three social factors that contributed to the scramble and partition of East	Africa.
(3m)	ks)
b) Discuss six factors that facilitated the establishment of the British control over Ko	enya during
the 19th century.	(12mks)
21. a) Give three reasons why the Bukusu resisted the British rule.	(3mks)
b) Describe the structure of the colonial administration in Kenya.  SECTION C 30 Marks  Answer any two questions.	(12mks)
22. a) Outline five Key changes in the New Kenya Constitution 2010.	(5 mks)
b) Describe five constitutional reforms agreed by Inter Party Parliamentary Group (	IPPG to
level the ground before the 1997 general elections.	(10mks)
23. a) Outline three consumer rights that are entitled to citizens.	(3mks)
b) Explain six factors that undermine national unity in Kenya.	(12mks)
<ul><li>24. a) What are the qualifications of a voter in an electoral process in Kenya.</li><li>b) Describe the role of the speaker of the national assembly.</li></ul>	(5mks) (10mks)





## **KCSE 2022 PREDICTION**

### **SERIES 1**

NAME	INDEX NO
SCHOOL	SIGN
DATE	

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				SECTION	NO	TOTAL	
		В				C			
QUESTIONS	1-17	18	19	20	21	22	23	24	
SCORE									





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

## **Answer ALL questions in this section**

Identify <b>two</b> chemical methods of dating fossils	(2 marks)
State <b>two</b> features of a government.	(2 marks)
Name <b>one</b> source of information on the creation theory.	(1 mark)
Give <b>two</b> symbols of authority in pre-colonial Buganda Kingdom.	(2 marks)
Give <b>two</b> political effects of the Industrial Revolution in Europe.	(2 marks)
Give <b>one</b> importance of the Odwira Festival in the ancient Kingdom of Asar	nte.(1 mark)
	State <b>two</b> features of a government.  Name <b>one</b> source of information on the creation theory.  Give <b>two</b> symbols of authority in pre-colonial Buganda Kingdom.  Name <b>two</b> participants of the Trans-Saharan trade apart from the Tuaregs.  Apart from scrolls, give one other material on which messages were writter ancient times.  Give <b>two</b> political effects of the Industrial Revolution in Europe.





	ACSE Fredictions Marking Schemes - 0740 222 000	
9.	Give <b>two</b> factors that determine the form of a constitution.	(2 marks)
•••••		•••••
10.	Mention <b>one</b> social factor that led to the African resistance during the colonial J	period.
		(1 mark)
11.	State <b>one</b> undiplomatic method used by the Europeans to acquire colonies in At	
12.	Name the underground movement established by African National Congress t	o fight agains
apart	theid system in South Africa.	(1 mark)
13.	State <b>two</b> functions of emirs in Northern Nigeria.	(2 marks)
•••••		
14.	State the main reason why U.S.A. took a neutral stand at first during the First World War.	(1 mark)
•••••		••••••
15.	State the immediate incident that sparked off the Second World War	(1 mark)
16 <b>.</b>	What is Veto power as adopted by United Nations Security Council?	(1 mark)
17.	Name <b>one</b> two political parties that fought for independence in Ghana	(1 mark)
•••••		





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

#### Answer ANY THREE questions in this section

**18.** (a) Identify **five** factors that facilitated early agriculture in Mesopotamia. (5 marks) **(b)** Explain **five** causes of food shortage in Africa today. **(10 marks) 19**. (a) State **three** disadvantages of using coal as a source of energy. (3 marks) **(b)** Explain **six** effects of scientific inventions on industry. **(12 marks)** 20. State **three** factors that enabled Europeans to colonize Africa in the 19th Century. (a) (3 marks) Explain six political effects of partitioning Africa. **(b)** (12 marks) State five conditions that one had to fulfill in order to be fully assimilated 21. (a) in Senegal. (5 marks) Explain the effects of British Direct rule in Zimbabwe. **(b)** (10 marks) SECTION C (30 MARKS) Answer ANY TWO questions in this section (3 marks) 22. Give three parts into which the Asante kingdom was divided into (a) Explain six aspects of the political organization of Shona kingdom during the **(b)** pre-colonial period. (12 marks) 23. Name any *three treaties* that formed the Treaty of Versailles. (a) (3 marks) Explain six reasons why the League of Nations failed to preserve world Peace and **b**) security (12 marks) 24 Identify any three Pan- Africanists from Africa. (3 marks) (a)



**(b)** 



(12 marks)

Explain six achievements of Pan-Africanism.

## **KCSE 2022 PREDICTION**

### **SERIES 1**

NAME	INDEX NO
SCHOOL	SIGN
DATE	
451/1	

## **COMPUTER STUDIES**

## Paper 1 THEORY

Time: 2 1/2 Hours

#### **INSTRUCTIONS TO CANDIDATES**

- Write your Name, Class, Admission Number and Index Number in the spaces provided.
- Answer **ALL** the questions in **section A**
- Answer question 16 (Compulsory) and any other three questions from section B.

#### **FOR OFFICIAL USE ONLY**

Question	Maximum score	Actual score
1-16		
17		
18		
19		
20		
TOTA		





### **SECTION A: (40 MARKS)**

#### Answer ALL Questions in This Section

1. During a visit to the typing room, Jane a computer student observed a type of printer that uses a beam to create an image on a rotating drum. As the beam hits the drum, some regions attract ink toner particles. The toner is then fused onto a piece of paper.

I.	n-impact	
printer.		(1mark)
II.	List <b>two</b> advantages of using the printer mentioned in a. above.	(2marks)
	N ( ( 60 TV ) / 60	
	Bunam Water Company sends out field officers to take consumer meter readings	
collect	ed by the officers is then keyed into the computer. The system then generates uti	lity bills
which a	are printed and sent to the consumers.	
i.	State <b>two</b> transcription errors that are likely to occur during meter reading or i	nnut
1.	State two transcription errors that the likely to occur during ineter reading or r	(1 mark)
		(1 mark)
		_
ii.	State <b>two</b> ways such errors can be avoided.	(1 mark)





Purchasing software before assessing requirements.	(1 mark
Using foreign flash disks on the computer.	(1 mark
To process an instruction, the CPU goes through a cycle of three stages. No.	ame each of the (3 mark
Explain the importance of the following spreadsheet operations.  (i) Freezing columns	(2 mark
(ii) Data validation	
ame <b>two</b> types of relationships that can be applied in database design.	(1 mar



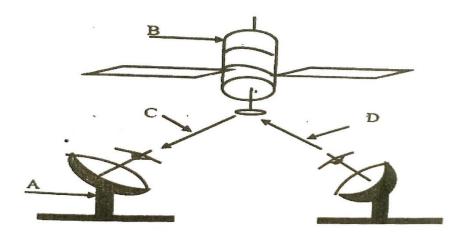


		(4 mark
(a) M	Iutiso wanted to upgrade the RAM of his computer. State two factors Mutiso	should
consider	when purchasing a RAM module.	(1 mar
		_
	VA (CAS)	
<b>(b)</b>	Define the following terms:	(2 mar
	(i) Computer Port	
	(ii) Power supply unit	
		_
Mkulima	Bora is a society that embraced E-Commerce recently. The manager is convi	inced the
	legal access to the company's system. State TWO ways in which the society	
vercome	this problem. (2 max	rks)





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



(i) Name the communication media depicted in the above diagram	(1 mark)
(ii) Name the parts labelled A, B, C, and D A B C	(3 marks) - 
10. In a desktop publishing document, an image embedded can be transformed in vario  Name any three ways one can use to make the image fit in a designated area.	us ways.  (3 marks)
11. Differentiate between source program and object program.	(2 marks)

(i) Drafts and outbox



12. Differentiate between the following terms in Internet



(4 marks)

(ii) cc and bcc	
3. State <b>two</b> characteristics of a computer that is infected by computer viruses.	(2 marks
I. Identify each of the following symbols as used in system flowchart.	 (1 mark)
(a)	
(b)	
5. Differentiate between bullets and numbering as used in DTP	(2 marks





## KCSE Predictions Marking Schemes - 0746 222 000 <u>SECTION B (60 marks)</u>

#### Answer question 16 and any other three questions from this section in the spaces provided.

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n the loop	were exe	cutea.	( (			r	(10	marks)	hange.
	,\	San Carrier	/		7		``		.)
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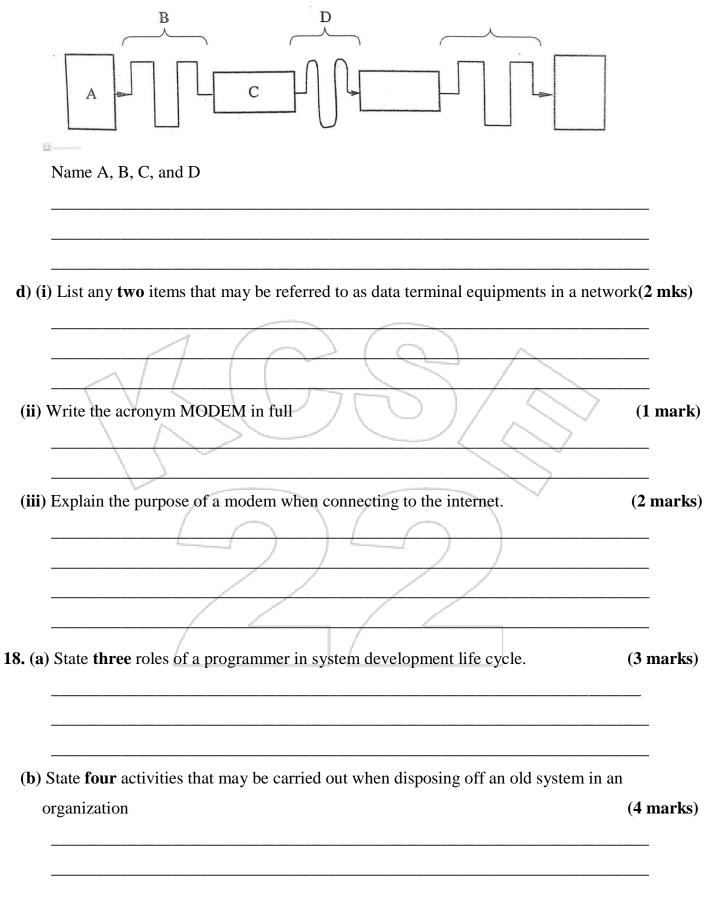




	KCSE Predictions Marking Schemes - 0746 222 000	
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•••••		•••••
<b>c</b> ) (	Give <b>two</b> types of errors that may be detected during program testing.	(2 marks
-		
-		
	-A(Q)	
-		
7 a) <b>S</b>	State <b>four</b> functions which are specific to Network Operating Systems.	(A mont
(. a) S	State four functions which are specific to Network Operating Systems.	(4 mark
-		
-		
_		
b)S	State <b>two</b> advantage of using fibre optic cables over satellite in data communicati	on.(2 mark
_		
-		
-		
c) (i)	The figure below shows how data is transmitted through a public telephone.	(4 mark











		(2 marks)
	(d) Discuss any two fact finding methods.	(4 mar 
(e)	Differentiate between an open system and a closed system.	(2 marks)
. a	State <b>three</b> standard coding scheme used computing and electronic	e systems. (3 ma
		·
<b>b</b> )	Convert each of the following numbers	
	1001.001 ₂ to octal.	(2 marks)





iii)	Add 1100.011 ₂ to 11001.0101 ₂ and leave	your answer in decimal (3 marks)
c) form.	Using two compliment perform the follow	ing arithmetic leaving your answer in binary  (4 marks)
13 ₁₀	- 15 ₁₀	
•••••		
••••		
•••••		
20. (	a) Distinguish between axis labels and data	labels as used in spreadsheets. (2 marks
•••••		
•••••		
•••••		
actions	_	e that allows one to perform the following (4 marks)
	Action	Feature
	Provide pictorial summary of data	
	Make one cell out of many	
	List items from Highest to lowest or vice versa	
	Make many cells out of one	





ord processing.	(2 marks)
Describe the following categories of soft	ware (4 marks
i) Firmware	
i) Proprietary software	
16	200
(e) Explain the meaning of solid state	storage media giving two examples of it. (3 ma
	7 /





## **KCSE 2022 PREDICTION**

### **SERIES 1**

NAME	INDEX NO
SCHOOL	SIGN
DATE	

451/2

## **COMPUTER STUDIES**

Paper 2

(PRACTICAL)

Time: 2½ hours

#### Instructions to candidates

- 1. Write your name and Index number at the right hand corner of each print out.
- 2. Write your name and Index number on the CD provided.
- 3. Write the name and version of the software used for each question attempted in the answer sheet
- 4. Answer all the questions
- 5. Passwords should not be used while saving in the CD provided.
- 6. All answers must be saved in your CD provided.
- 7. Arrange your printouts and staple them together
- 8. Hand in all the **printouts** and the CD used





#### **QUESTION 1**

a) Use DTP software to design the following business card using the following layout specifications:

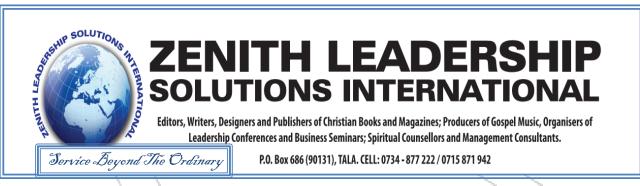
(i) Paper size A4 portrait. (2 marks)

(ii) Set the margins to 0.5 inches all round. (2 marks)

(iii) Divide the page into TWO columns (2 marks)

(iv) The border should occupy the first column (2 marks)

b) Prepare the publication as exactly as it appears and save it as Business card. (10 marks)



- c) Insert your full name above the heading "ZENITH LEADERSHIP..." and centre it across(5 marks)
- d) Create the logo to occupy between 0.8" to 1.80" left and 0.70" to 1.85" from top. (5 marks)
- e) The title should occupy between 1.70" to 7.50" across and 0.75" to 1.45" from top. Font Arial black with italics and fill effect pattern of dark horizontal. (5 marks)
- f) The words "ZENITH LEADERSHIP" should occupy 2.50" to 5.70" across and 1.50" to 2.00" from top. Font Book antique size 26, bold and centered. (4 marks)
- g) The rest of the text is in font Bodoni MT size 12. (2 marks)
- (i) Align all the text as shown. (2 marks)
- (ii) Group the publication as one. (2 marks)
- (iii) Fit FOUR copies of the design into a single page. (2 marks)
- h) Include a page header with your index number. (2 marks)
- i) Save as Updated Business card. (1 mark)
- j) Print the publication Business card and Updated Business Card. (2 marks)





#### **Question 2**

The table below shows records extracted from Motors Sales Company Database. Create a database and name it MOTOR SALES. (1 mark)

Custome	Custome	Custome	Car	Car	Car	Car	Custome	Amount
Name	Address	Town	Reg No	Туре	Make	price	ID	paid
Ogutu	254	Nakuru	KBJ 0017	Truck	Nissan	1,100,00	B001	800,000
John	678	Eldoret	KCM 0021	Bus	Mazda	2,400,00	B002	2,000,00
Uhuru	963	Nairobi	KBB 003	Saloo	Toyota	800,000	B003	800,000
Ogutu	147	Nakuru	KCJ 004E	Pick u	Peugeor	1,000,00	B004	700,000
Chumba	456	Bungom	KCH 6781	Lorry	Isuzu	3,000,00	B005	2,000,00
Kariuki	789	Webuye	KBB 0061	Pick u	Toyota	1,800,00	B006	1,600,00
John	678	Eldoret	KBJ 007I	Bus	Scania	7,500,00	B002	7,500,00
Uhuru	963	Nairobi	KCC 6780	Truck	Toyota	1,800,00	B003	1,800,00
Phillip	159	Kisumu	KCJ 009F	Saloo	Nissan	9,00,000	B007	900,000
Ogutu	254	Nakuru	KCH 0101	Pick u	Isuzu	1,500,00	B001	1,200,00
Uhuru	357	Kisumu	KCJ 0113	Saloo	Peugeor	600,000	B008	600,000
Kariuki	789	Webuye	KBG 0121	Bus	Isuzu	10,000,00	B006	9,500,00
Ogutu	147	Nakuru	KDA 0134	Truck	Nissan	2,700,00	B004	2,700,00

- a) Using the data above, create a table that will hold Car details and another table to hold Customer details. Name them **TABLECAR** and **TABLECUSTOMER** respectively and set appropriate *primary keys*. (4 marks)
- b) Enforce referential integrity between two tables. (2 marks)
- c) Create different input forms for each table. Name them FORMCAR and
   FORMCUSTOMER. Use them to enter data into the tables. (12marks)
- d) Display a report only showing the details of the Customers who have cleared paying for the Car. Name the report REPORTCLEARED. Add "CLEARED CUSTOMERS" as the title of the report.
   (7 marks)





e) Using the two tables create an *outlined report* showing the *customer details*, *the total amount* paid by each customer and the total amount received by the company. Name the report **SUMMARY** and the title as "**OVERALL CUSTOMERS REPORT**."

(8 marks)

(6 marks)

- f) Create a query to display the Car details with balances of less than 300,000. Name the query as **BALQUERY.** (4marks)
- g) Create a report showing the *Car type, the total sales for each car type* and *the grand total*.

  Name the report as **REPORTGRAND.** (6 marks)
- h) Using landscape orientation, print **REPORTCLEARED**, **SUMMARY** and **REPORTGRAND** with *footers bearing your lastname* and *index number* at the *center of the page*.







## **KCSE 2022 PREDICTION**

### **SERIES 1**

NAME	INDEX NO
SCHOOL	SIGN
DATE	

441/1

## HOME SCIENCE

THEORY
PAPER 1
2½ HOURS

#### **INSTRUCTIONS TO CANDIDATES**

- Write your name and index number in the spaces provided above.
- > Sign and write the date of examination in the spaces above.
- This paper consist of three sections: A,B and C.
- Answer all questions in section A and B and any two questions from section C in the spaces provided.

#### FOR EXAMINER'S USE ONLY.

SECTION	QUESTION	MAXIMUM SCORE	CANDIDATE SCORE
A	1-25	40	
В	26	20	
С		40	
TOTALSCORE		100	





# KCSE Predictions Marking Schemes - 0746 222 000 SECTION A (40MARKS)

## Answer all questions in the spaces provided.

•	What is a dessert? Give <b>one</b> example.	(1mk)
		-
	State <b>two</b> symptoms of a two-year —old child suffering from choking.	(2mks)
-		
	1 ( ) ( ) \	
	Mention <b>two</b> disadvantages of using old blanket pieces for mops.	(2mks)
	Give two advantages of being able to draft your own patterns for garment constru	
		(2mks)
	Evalsia vyhyvyitamia D defisionov is not sommon in most neuto of Venys	(2l-a)
	Explain why vitamin D deficiency is not common in most parts of Kenya.	(2mks)





ther than burning test, state <b>two</b> ways of identifying textile fibres.	(1mk)
ist <b>four</b> preparations to make on a fabric before laying out patterns.	(2mks)
	<del>}</del>
Thy is soup an integral part of an invalid diet?	(1mk)
Then some accidents occur in the home, a doctor must be consulted immediated and explain why the doctor should be consulted.	ntely. Identify <b>t</b>
i .	st <b>four</b> preparations to make on a fabric before laying out patterns.  Thy is soup an integral part of an invalid diet?  Then some accidents occur in the home, a doctor must be consulted immedia

11. Irene was machine stitching her apron then the needle broke suddenly. Give two causes for this.



(2mks)

2. Explain briefly the meaning of housing the family.	(1mk)
3. (i) Define a stitch?	(½ mks
i)State <b>two</b> qualities of a well made stitch.	(1 mks)
4. List down <b>two</b> details that are included in a label for any garment con	mmercially made. ( <b>1mk</b> )





6.	Suggest <b>three</b> advantages of making a budget.	(1 ½ ml
	Suggest timee advantages of making a budget.	(1 /2 III)
<b>'•</b>	Give <b>two</b> reasons for artificial feeding.	(2mks)
3.	Differentiate between indirect and semi-direct methods of lighting.	(2mks)
·•	Give <b>two</b> reasons why fullness is introduced in garment during construction.	(2mks)
	State <b>two</b> common methods of buying goods and services.	(2mks)





		(1mk)
22.	State <b>two</b> possible causes of large holes in a rubbed in cake mixture.	(2mks)
3.	Give <b>one</b> reason for each of the following practices in cleaning.	(2mks)
)	Cleaning a glass window from outside to inside	>
i)	Scrubbing a wall from down up	
ii)	Sweeping with long low strokes	
v)	Pouring hot water down a kitchen sink drain.	





KCSE Predictions Marking S	Schemes - 0746 222 000
25. State four disadvantages of the corridor plan	arrangement. (2mks)
SECTION B ( This is a comput  26. Your family is planning to visit and spend reasons, describe how you would:  a) Describe how you will thoroughly clean her parameters.	sory question.  a weekend with relatives at a campsite. Giving
(9 mks)	





<b>b</b> ) Launder your fast coloured nylon raincoat in readiness for ca	mping. (7mks)
•••••••••••••••••••••••••••••••••••••••	
••••••	•••••
•••••••••••••••••••••••••••••••••••••••	••••••
	•••••
$A \wedge A \wedge$	
	, (\)
c) Clean an aluminum cooking pan	(4mks)
c) Clean an aluminum cooking pan	(4mks)
c) Clean an aluminum cooking pan	(4mks)
c) Clean an aluminum cooking pan	(4mks)
c) Clean an aluminum cooking pan	(4mks)
c) Clean an aluminum cooking pan	





## **SECTION C (40 MARKS)**

## Answer any two questions in this section.

27.a) Using well-labeled diagrams explain how you would prepare an interfaced wai	stband with an
extended facing before attachment. (10	mrks)
<b>b)</b> A well-drained house is a comfortable house to live in. explain five points to supstatement.	port the above (5mks)
c) Outline five reasons why it is advisable for women to deliver in the hospital.	(5mks)
28. a) Define; (i) A raising agent	( <b>1mk</b> )
(ii) Give the three ways of introducing raising agents in flour mixtures.	(3mks)
b) Explain six ways of introducing air into flour mixtures mechanically.	(6mks)
c) With the aid of two clearly labeled diagrams, show the front and the back measure	ments required
for making a blouse with long sleeves.	(8mks)
d) State two characteristics of a well- made seam.	(2mks)
29. a) Give five points on how to ensure the purchase of quality goods by consumers.	(5mks)
b) Explain five considerations to make when furnishing a sitting room.	(5mks)
c) State five precautions to take when caring for the sick to avoid the spread of infection	on. (5mks)
d) State five qualities of a well made round bottom patch pocket.	(5mks)
	•••••
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KCSE Predictions Marking Schemes - 0746 222 000
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## **SERIES 1**

NAME	INDEX NO
SCHOOL	SIGN
DATE	

441/2

# HOME SCIENCE

(CLOTHING AND CONSTRUCTION)
PAPER 2
PRACTICAL

**CONFIDENTIAL** 

**Instructions to schools.** 

Provide the following to each candidate.

(a)Light weight plain cotton fabric 35cm by 90cm wide,

(b) Sewing thread to match the fabric.

(c)Embroidery thread 130cm long.

(d)A4 envelop.





## **SERIES 1**

NAME	INDEX NO
SCHOOL	SIGN
DATE	

441/2

# **HOME SCIENCE**

(CLOTHING AND CONSTRUCTION)

PAPER 2

**PRACTICAL** 

TIME: 2 ½ HOURS.

Practical.

A pattern of a skirt is provided. You are advised to study the sketches, instructions and layout carefully before you begin the test.

Materials provided.

Pattern pieces.

- A skirt Front.
- B skirt Back
- C Yoke
- D pocket
- E waist band
- F Interfacing for Front and Back waistband.
- 2. Plain light weight cotton fabric 70cm wide by 55cm long.
- 3. Cotton thread to match the fabric.
- 4. Embroidery thread 130cm long.
- 5. A4 Envelop.





#### THE TEST

Using the materials provided, cut out and make the LEFT HALF of the skirt to show the following process.

- 1. Cutting out.
- 2. Working of a single pointed dart at the skirt back to include the working of satin stitch to fill "O" on the pocket.
- 4. Preparation of gathers on the skirt front. DO NOT REMOVE GATHERING STITCHES.
- 5. Joining the skirt front to the yoke using overlaid seam.
- 6. Working the side seam using an open seam, edge stitch the raw edges.
- 7. Making of the waist band.
- 8. Managing the hem on the lower edge of the skirt by:
  - a) Hold the hem using even tacking. DO NOT REMOVE TACKING.
  - b) Working hemming stitches at the front part of the skirt.
- 9. Presentation.

NB:

At the end of the examination, firmly sew on your work on single fabric a label bearing your name, class and admission number. Remove the needles, pins and unnecessary threads from your work. Fold your work neatly and place it in the envelop provided.

# DO NOT PUT SCRAPS OF FABRIC IN THE ENVELOP AND DO NOT SEAL THE ENVELOP.





## **SERIES 1**

NAME	INDEX NO
SCHOOL	SIGN
DATE	

441/3

# HOMESCIENCE

PAPER 3
PRACTICAL
(FOOD AND NUTRITION)

TIME: 1¼ HOURS

## INSTRUCTIONS TO CANDIDATES

PLANNING SESSION: 30 MINUTES

PRACTICAL SESSION: 11/4 HOURS

- 1. Read the Test carefully.
- 2. Write your Name and Index number on every sheet of paper used.
- 3. Text books and recipes may be used during the planning session as reference materials.
- **4.** You will be expected to keep to your order of work during practical session.
- 5. You are only allowed to take away your reference materials at the end of the planning session.
- **6.** You are <u>not</u> allowed to bring additional notes to the practical session.
- 7. This paper consists of two printed pages.
- **8.** Candidates should check the question to ascertain that both pages are printed as indicated and no page is missing.



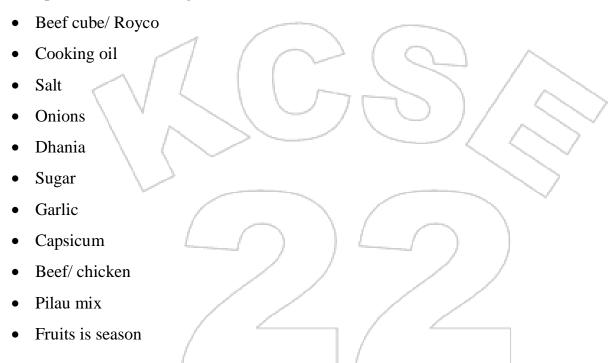


#### **THE TEST**

You and your friend are on half term and are going for a girls outing fun day. Using the foodstuffs and ingredients listed below. Prepare, cook and pack a one course meal for the two of you. Include a refreshing drink.

#### **INGREDIENTS**

- Tomatoes
- Potatoes / Wheat flour / Rice
- Spinach/ kales/ cabbage



#### **PLANNING SESSION: 30 MINUTES**

Use separate sheets of paper for each task listed below. Use carbon paper to make duplicate copies then proceed as follows.

- 1. Identify the dishes and write down their recipes.
- 2. Write down your order of work.
- 3. Make a list of the foodstuffs and equipment you will require.





# **SERIES 1**

NAME	INDEX NO
SCHOOL	SIGN
<b>DATE</b>	•••••
	501/1
	FRENCH PAPER 1
LISTENIN	G COMPREHENSION, DICTATION AND CREATIVE
1	WRITING.
	TIME: 2 HOURS.
	SECTION 1
Listening comprehe	ension (15marks)
Write answers to Qu	estions 1-6 in the spaces provided.
PASSAGE 1	
1. a. Le monsieu	r cherche le bureau de qui donne
	d' aux candidats. (1
⁄2 mark)	(1
,	da la rágantian. Phamma va taurnar
(1 ½ mark)	de la réception, I'homme va tourner
c. Il cherche la p	oorte numéro(1 ½ mark)





#### **PASSAGE II**

Complétez ce tableau:

2. a.	
	Programme: < <connaître>&gt; ( ½ mark)</connaître>
	Distance du village à la capital: (½ mark)
	Population: (½ mark)
	Moyen de transport: ( ½ mark)
	Deux produits agricoles: ( ½ mark)
b. On pré	sente ce programme chaque
PASSAG 3. a.	A qui est destiné le message?
h L'objet	
0. L 00je	t don ene.
i	
	(½ mark)
ii	
	(½ mark)
	et les
•••••	sont interdits. (½ mark)





#### PASSAGE IV

	nmanuel est âgé de	(1/2 mark)
	ir il voudrait devenir	,
c. Ses deux l	loisirs sont et	
d. En quelle	e langue va-t-il communiquer avec son correspondant?	
•••••		(½ mark)
PASSAGE Solution 1	V  plissez cette fiche de plaints avec les détails de l'objet présente	@ jeunemail.com ( ½
a.	Fiche de plaintes	
	Jour: ( ½ marl	k)
	Objet: (½ mar	k)
	Couleur: (½ mar	k)
	Taille: (½ mar	rk)
	Prix: (½ mar	rk)
b. Qu'es	est-ce que le vendeur offer à la cliente?	
(1 mark)		





## KCSE Predictions Marking Schemes - 0746 222 000 SECTION II

## **Dictation** (5 marks)

Write the dictation passage in the spaces provided.
•••••••••••••••••••••••••••••••••••••••
A(Q)
••••••





#### **SECTION III**

Creative writing (15 marks)
In 120 – 150 words, write in French on :-
Either
1. Begin as follows:
Ce jour là, je me suis levé(e) très tôt le matin car
Or
2. End as follows
c'était vraiment un jour inoubliable.
(a)(14)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)





## **SERIES 1**

NAME	INDEX NO
SCHOOL	SIGN
DATE	

501/2

# FRENCH

PAPER 2

(Reading comprehension, Grammar and Functional writing)

#### $2^{1}/_{4}HRS$

#### **Instructions to Candidates**

- a) Write your name and index number in the spaces provided.
- b) Sign and write the date of examinations in the spaces provided above.
- c) This paper has three sections: I, II and III.
- d) Answer ALL the questions in the spaces provided.
- e) Candidates should answer the questions in French.

#### For Examiner's Use Only.

Section	Maximum Score	CandidatesScore
I	15	
II	15	
III	10	
Total Score	40	





### KCSE Predictions Marking Schemes - 0746 222 000 SECTION I

#### **Reading comprehension (15 marks)**

Read the passages below and answer the questions that follow each passage.

#### **PASSAGE 1**

Se loger coûte cher. C'est pourquoi deux tendances apparaissent. II y a les jeunes qui décident de rester chez leurs parents le plus longtemps possible. Un quart d'entre eux, environ 25%, habitent encore chez leurs parents entre 25 et30 ans. En général, ce sont plutôt les garçons que les filles. Pourquoi ? Les filles disent qu'elles préfèrent être indépendantes. Elles n'ont pas besoin de dire à leurs parents ce qu'elles font et à quelle heure elles rentrent. Et il y a les jeunes qui décident de partir de la maison. Alors, comme les loyers sont chers, ils doivent trouver un logement à partager avec d'autres personnes, c'est la colocation.

a) Donnez un titre à ce	passage. (1 mark)		
b) D'après le texte, que	elles deux options ont le	es jeunes pour se loger.	
i)	/		
ii)			
(2 marks)			1
c) Qu'est-ce que c'est la	a colocation?		(1 mark)

#### PASSAGE 2

Ces temps — ci, il y a des crises à la maison. Des scènes terribles entre moi et mes parents toujours pour la même raison ils me posent des questions, me suspectent de cacher les pires choses et à ce moment-là, je me réfugie dans ma chambre.

J'allume la radio pour m'isoler, mais ils continuent de me questionner derrière la porte: "Si tu nous répondais, on pourrait discuter. Quand tu étais petit, tu nous parlais, maintenant on n'a même plus le droit d'entrer dans ta chambre".

J'ai interdit l'accès de ma chambre et je trouve ça normal. Ma mère n'a pas le droit de regarder toutes mes affaires sous prétexte de ranger ou de faire le ménage. La dernière fois, elle a vu une photo de





Véronique (la fille que j'aime) et j'ai eu droit à un interrogatoire: "Eh bien, elle est mignonne. C'est ta petite amie? Depuis quand?

Qu'est-ce qu'elle fait, hem, dis- moi!"

En un sens, je comprends sa curiosité: je suis son fils et elle s'intéresse à moi. D'ailleurs, si elle m'ignorait, je n'aimerais pas non plus. Mais sa façon de se mêler de mes histories m'énerve.

Je ne sais pas si tous les parents sont pareils, mais les miens sont paniques par l'adolescence. Ils devraient se calmer! Bon, c'est vrai que mes notes ont baissé depuis que je connais véronique mais sinon, tout va bien. Ils ont leurs secrets, moi aussi c'est pas plus compliqué que ça!

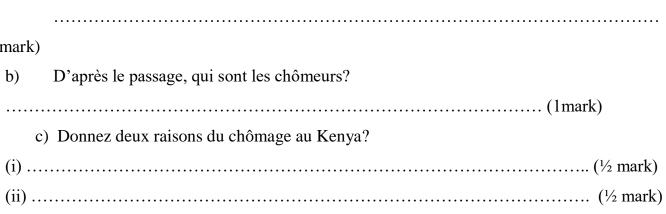
#### Teffany (17 ans)

a)	Qui a écrit le texte?	
$(1/2m^2)$	nark)	
b)	Quel est l'âge de cette personne?	(1mark)
c)	Qui est Véronique?	(1/ ₂ mark)
d)	Donnez du texte les synonymes des expressions suivants: (1 mark)	
(i)	demander	`
(ii)	S'occuper de	/
	PASSAGE 3	
Hier	r, à environ trois heures de L'après-midi à la Banque Indosuez, quelque	ues clients attendaient
patie	mment quand, soudain deux jeunes gens âgés d'une vingtaine d'années s	ont entre dans la salle
•	amment. Ils étaient armés d'un pistolet et un automatique.	
_	ue personne ne bouge! » a commandé l'un d'eux pendant que l'autre, les ye	
	tes de soleil, braquait un pistolet sur M. Gerard Monneir, le directeur de l'a	
« J	ai alors fait signe à la caissière de leur remettre l'argent » a dit ce dernier, un	ne neure apres les faits.
pied	deux ont fourré 75,000 Euros dans un sac en plastique et puis ils ont pris la en direction de la gare routière. Selon un des clients de l'agence, la scèrminutes.	•
a)	Quel est L'âge approximatif des deux voleurs?	
(½ma	ark)	
b)	Quelles armes portaient-ils?	(½ mark)
 c)	Quelle somme d'argent a été mise dans le sac? (½	 2 mark)





## KCSE Predictions Marking Schemes - 0746 222 000 ...... Par quel moyen se sont – ils échappés? d) (1 mark) ..... L'incident a duré approximativement combien de temps? (½ mark) e) Passage 4 Le Chômage Dans le monde entier et surtout au Kenya, il existe une crise grave de manque d'emploi, soi-disant le chômage. Les Jeunes sont les plus vulnérables, particulièrement ceux qui viennent de terminer leurs études à l'école secondaire et cherchent le premier emploi. Pourquoi y a- t – il le chômage? Il y a plusieurs réponses possibles à cette question. Par exemple, la poussée démographique a provoqué un afflux considérable des jeunes qui cherchent l'emploi. D'ailleurs les jeunes n'avaient pas pu acquérir pendant leur scolarité une réelle formation professionnelle au besoin d'un marché du travail. Parfois, un titulaire d'une licence bien mentionnée ne peut pas trouver de cadre parce qu'on est débutant; donc, il obtient un travail qui ne correspond pas à son diplôme. Quelquefois, l'employeur a le choix de passer un contrat avec quelqu'un expérimenté ou avec un débutant, mais dans la plupart du temps, les employeurs préfèrent l'expérimenté au lieu d'un débutant. Ainsi, Celui qui n'a pas réussi laisse la place à l'autre chômeur. Il est souhaitable que le gouvernement protège les intérêts du Marché du travail par l'assurance d'un bon système d'éducation et par le recrutement d'enseignants bien formés pour faire les jeunes aux école s'adapter à des technologies nouvelles à fin qu'ils obtiennent de bon travail après l'école. Ce passage, de quoi s'agit-il? a) ..... (1 mark) b) D'après le passage, qui sont les chômeurs?







d)	Est-ce que les employeurs préfèrent-ils les jeunes chômeurs débutants?
e) Qu'est	-ce que le gouvernement doit-il faire pour résoudre ce problème?  (1 mark)
	SECTION II
	Grammar (15 marks)
4. Rewrite the	e sentences below as guided, making any appropriate changes.
a)	Papa dit: « les enfants chantent bien »
Papa dit	(1 mark)
b)	Son père lui donne un bonbon.
Le bonbon qu	e(1 mark)
c)	Tu manges encore les pommes frites ?
Non,	(1/2 mark)
d)	De nos jours, Shamim rentre trop tard le soir.
Auparavant,	(1 mark)
e)	Il a mal au ventre.
Son ventre	(1/2 mark)
f)	On joue le football au terrain de sport.
Le football	(1 mark)
g)	Je trouve ta mère très gentille car elle parle(1/2 mark)
h)	Vous n'êtes pas kenyane ?
Si,	(1/2 mark)
i)	J'ai mal à la tête.
Mon tête	(1/2 mark)
j)	Le cycliste a évité un accident car il a freine a temps.
En	
-	he following letter, filling each space with ONE word only. (6pts)
Chère Antoin	e <b>,</b>





CSE Predictions	s Marking	Schemes -	<i>0746 222</i>	000
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	KCDL	1 realcilo	iis muun	ing be	itellies - 0/-	70 222 000	,		
Bonjour!	Comment	ça	va?	Je	(1)	ren	nercie	pour	ta
lettre(2)	• • • • • • • • • • • • • • • • • • • •	j'ai	i reçu	la	semaine	dernière.	Ici	au k	Kenya,
il(3)	très	chaud	car c	'est(4).	saison	sèche.	Quel	temps	fait-
il(5)	France?								
J'accepte en	tièrement(6)	• • • • • • • • • • • • • • • • • • • •	invita	tion(7).		'a	ller à	Toulouse.	. Mes
parents étaien	t si ravis(8)			ils or	t décidé (9)	r	n'accon	npagner ju	usqu'à
l'aéroport Jon	no Kenyatta.	Je te prie	e(10)		.m'attendre	en compa	gnie de	tes cama	arades
français.									
Dis bonjour(1	11)	tes parer	its de ma	part.					
Bien (12)		toi,							
5. For each si	tuation below	write in F	rench an	appropr	iate response	e. (2pts)			
a)	7		Vous	êtes int	éressé a` fair	re partie d'u	ine activ	vité scolai	re.
b)			Votre	ami (an	nie) est mala	de S		>	
	/ ( )		SE	CTION	<u> III</u>				
	Compos	sition (10 r	narks)						
6. Write your	composition	in the spac	es provid	led. Ind	icate clearly	whether yo	ur choic	ce is 6 (a)	or 6
(b).	L_		) )						
6. In 120 to 1	150 words, wr	ite in Fren	ch on:						
Either		/ _		_ /					
a)	/		Ecrive	z une le	ettre à votre a	ımi francop	hone p	our lui	
expliquer les a	activités que v	ous faites p	pendant l	es vacai	nces scolaire	S.			
b)			Votre	ami(e) a	à beaucoup a	pprécie ce	qu'il/ell	e a mangé	chez
vous et il/elle	en demande la	a recette. E	crivez ce	tte rece	tte.				





## **SERIES 1**

NAME	INDEX NO
SCHOOL	SIGN
DATE	

314/1

# ISLAMIC RELIGIOUS EDUCATION

Paper 1
2 ½ hours

#### Instructions to candidates

- a) Write your name and index number in the spaces provided above.
- 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 in the spaces provided at the end of question six
- e) Candidates should check the question paper to ascertain that all the questions are available
- f) Candidates should answer the questions in English

#### For Examiner's Use Only

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





#### **QUESTIONS**

1. (a) State the teachings a Muslim can learn from surah Nasir (Q:1	10) (5 mks)
(b) Explain the circumstances that led to the revelation of Surah An Nur	(Q.24). (5 mks)
(c) Give reasons why the nature of the Quran changed from short to long	g verses when it was
revealed in Madina	(10 mks)
<b>2.</b> (a) State the teachings of Ayatul Qursi on the attributes of Allah.	(5 mks)
(b) Explain five problems in translating the Quran into other languages.	(5 mks)
(c) Describe the language of Quran.	(10 mk
$1 \left( 0 \right) \left( 0 \right)$	_
3. (a) Name the main shia collections of Hadith.	(4 mks)
(b) Explain the methods used by Imam Bukhari in collecting and compil	ing Hadith. (6 mks)
(c) Discuss the effect of anger.	(10 mks)
4. (a) Outline four differences between Sharia and figh.	(4 mks)
(b) Discuss the contribution made by Imam Abu Hanifah to Islam.	(8 mks)
(c) Describe the benefit of Tawba.	(8 mks)
5. (a) Describe the undesirable act s in prayers.	(5 mks)
(b) State the difference between Zakatul Mal and Zakatul fitr.	(5 mks)
(c) Discuss how Hajj helps a Muslim to advance spiritually.	(10 mks
<b>6.</b> (a) Outline the qualities of an Imam according to the shia belief.	(5 mks)
(b) Discuss the significance of believing in Qadar (predestination).	(7 mks)
(c) State the characteristics of the revealed scriptures.	(8 mks)





## **SERIES 1**

NAME	INDEX NO
SCHOOL	SIGN
DATE	

314/2

# ISLAMIC RELIGIOUS EDUCATION

Paper 2 2 ½ hours

#### Instructions to candidates

- a) Write your name and index number in the spaces provided above.
- 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 in the spaces provided at the end of question six
- e) Candidates should check the question paper to ascertain that all the questions are available
- f) Candidates should answer the questions in English

#### FOR EXAMINER'S USE ONLY

Question	1	2	3	4	5	6	Total score
Candidate's							
score							





# **QUESTIONS**

1.	(a) Identify any five activities that would lead to Muunkarat.	(5 mks)
	(b) Explain the basic beliefs on which Islamic morality is based.	(8 mks)
	(c) State seven main objectives of practicing Husunul khulug.	(7 mks)
2.	(a) State five types of sexual perversion according to Islam.	(5 mks)
	(b) Identify the identities a muslim should retain in a changing society.	(5 mks)
	(c) Discuss the measures put forward by Islam to curb the spread of HIV/AIDs.	(10 mks)
3.	(a) Discuss reasons why the family is considered the bedrock of Islamic society.	(8 mks)
	(b) Outline six duties of a husband in a Muslim family.	(6 mks)
	(c) Highlight the position of a woman in Islam.	(6 mks)
4.	(a) Give eight factors that may invalidate an Islamic contract.	(8 mks)
	(b) Discuss ways of eliminating corruption in the society.	(12 mks)
5.	(a) State the significance of the two covenants of Al-Agaba entered between the p	rophet
(P.B.U	J.H) and Madinans.	(5 mks)
	(b) Explain any five events that led to the formation of the khawarij movement.	(10 mks)
	(c) Describe the factors that influenced the spread of Islam in North Eastern Keny	ra.(5 mks)
6.	(a) Discuss the contribution of Sheikh Abdallah Al-Farsy to education in East Afr	rica(10 mks)





(10 mks)

(b) Discuss the views of Ibn Khaldun on eduction.

# THE END







# TO ALL 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







# KCSE CANDIDATES



