For Answers

Contact Mr. Oriosa

Tell: 074324106 4

(Notes, schemes of work, knec past papers & ans, topical questions & ans)

NAME_____ **ADMISSION NO.**_____

CLASS_____

DATE:_____

231

BIOLOGY (Theory)

APRIL/MAY 2022

2 Hours

KENYA CERTIFICATE OF SECONDARY EDUCATION

FORM TWO BIOLOGY PAPER

Instructions to Candidates

- Write your Name and admission Number in the Spaces Provided.
- Sign and write date of examination in the spaces provided.
- This paper consists of two sections A and B.
- Answer all the questions in Sections A and B in the spaces provided.
- You should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

SECTION A

Answer all the questions in Sections A in the spaces provided.

1. The table below shows **three** enzymes **A, B** and **C** and their respective optimum pH.

Enzyme	**Optimum pH**
A	6.8
B	2.0
C	8.0

(a) (i) Name the most likely region of the alimentary canal of a mammal where enzyme **B** would be found. (1mk)

(ii) Give a reason for your answer in (a) (i) above (1mk)

2. Explain how the following adaptation reduce transpiration in xerophytes

(a) Sunken stomata (2mks)

(b) Thick waxy cuticle (2mks)

3.Give **two** characteristics that distinguish scientific names of organisms from the ordinary names (2mks)

4.(a) What is natural immunity (1mk)

(b)(i) Define the term Allergy (1mk)

(ii) List two causes of allergy in humans (2mks)

5. (a) Give one physiological difference between a plant cell wall and a cell membrane (1mk)

(b) State two structural differences between a cell wall and a cell membrane (2mks)

6.The following reaction may occur in a forward and backward direction

Water + Carbon (IV) Oxide $\rightleftharpoons$ Glucose + Oxygen + Energy

a) Name the organelle where the above reactions occurs in:

(i) Forward direction 1mk,

(ii) Backward direction 1mk

(b)Give **one difference** and **one similarity** for the two organelles named in **(a)** above 2mk

7. In an investigation, a student extracted three pieces of paw paw cylinders using a cork borer of 50 mm length and placed in a beaker containing a solution. The results in the table below.

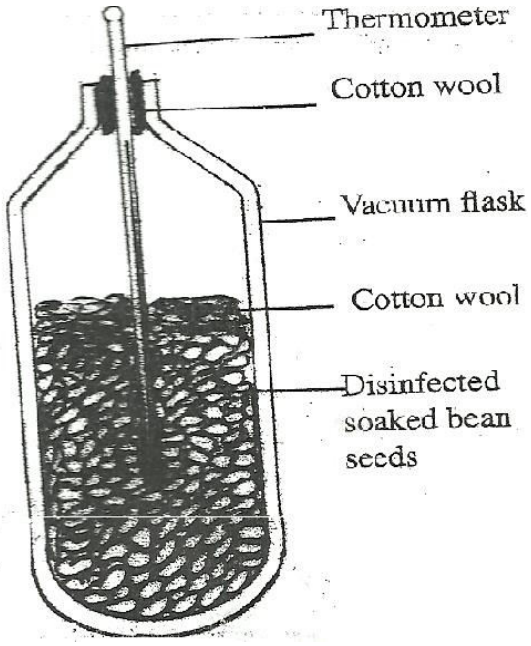
Feature	Result
Average length of cylinders	56 mm
Stiffnes of cylinders	stiff

(a) Account for the results in the table above. (3 marks)

(b) What would be a suitable control set-up for the investigation? (1 mark

8. What is the effect of contraction of the diaphragm muscles during breathing in mammals? (3 marks)

9.In an experiment, disinfection soaked bean seeds were put in a vacuum flask which was then fitted with a thermometer as shown in the diagram below.



The temperature readings were taken every morning for three consecutive days.

a) Which process was being investigated? (1 mark)

b) i) What were the expected results? (1 mark)

ii) Account for the answer in (b) (i) above? (2marks)

c) Why were the seeds disinfected? (2marks)

.

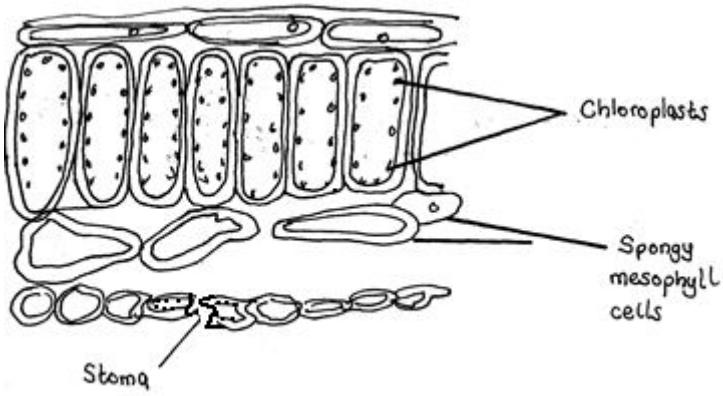
10. How does each of the following contribute to cooling of the body of a mammal?

(a) Sweating. (2mks)

(b) Vasodilation (2mks)

SECTION B

11. The figure below shows a section through a leaf. A leaf is designed for photosynthesis and this process provides a supply of simple sugars for a plant.



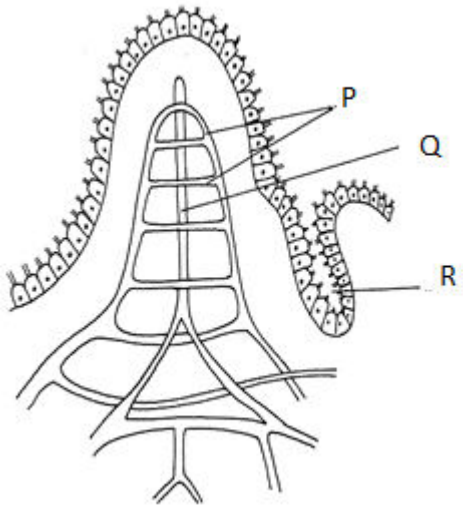
a) i) State the adaption of the chloroplasts to photosynthesis. (2mks)

ii) Explain the advantage of the distribution of the chloroplasts as shown in figure above. (2mks)

iii) Suggest the function of the stomata and the spaces between the spongy mesophyll cells in the process of photosynthesis. (2mks)

b)i)Name the tissue that translocate sugars from the leaves to others parts of the plant. (1mk)

12. The diagram below shows a part of human digestive system. Study it and answer the questions below.



(a) Identify the structure and state its functions (2mks)

(b)(i)Name the parts labelled P and Q (2mks)

(ii)State the role of the part labelled R (1mk)

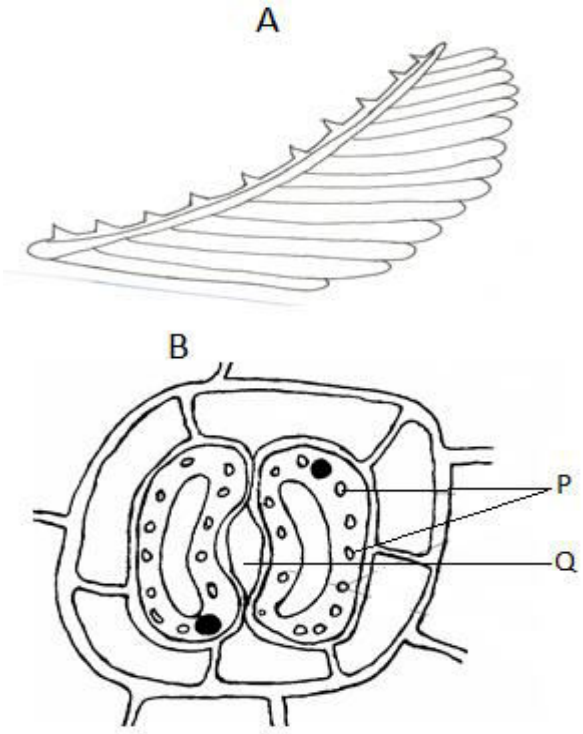
(c)How is the structure stated in (a) above adapted to its function (2mks)

(d)What is the role of enzyme enterokinase in digestion? (1mk)

e) Name two enzymes present in the juice secreted by part R. (2mks)

13. The diagrams below represent structures used for a certain process in living organisms. Study them and answer the questions that follow.

B



a) Identify the process 1mk

b) State two ways in which each of the structures is adapted to carry out the process named above

A 2mks

B 2mks

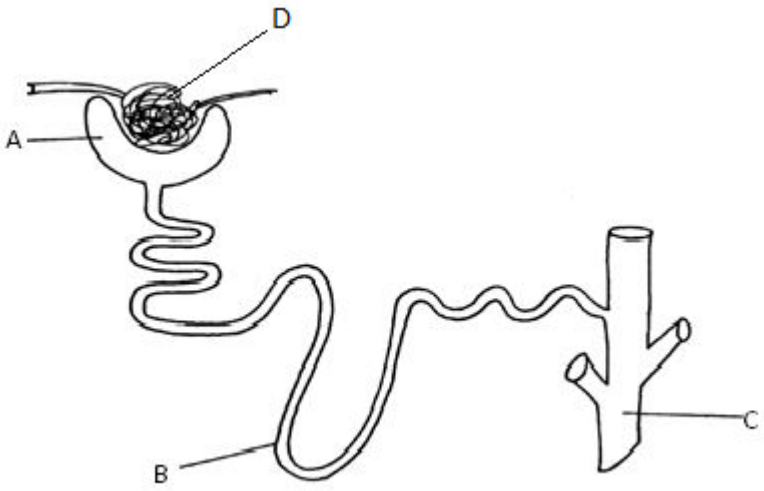
c) Name part P and Q in structure B. 2mks

P

Q

d) Name one structure that carries out the process named in (a) above in a frog. 1mk

14.a)The diagram below represents a nephron of a mammal:



i)Name the parts labeled **A, B** and **D** **3mks**

A

B

C

(ii) Name a major substance in glomerular filtrate whose concentration remains the same between **A** and **C** 1mks

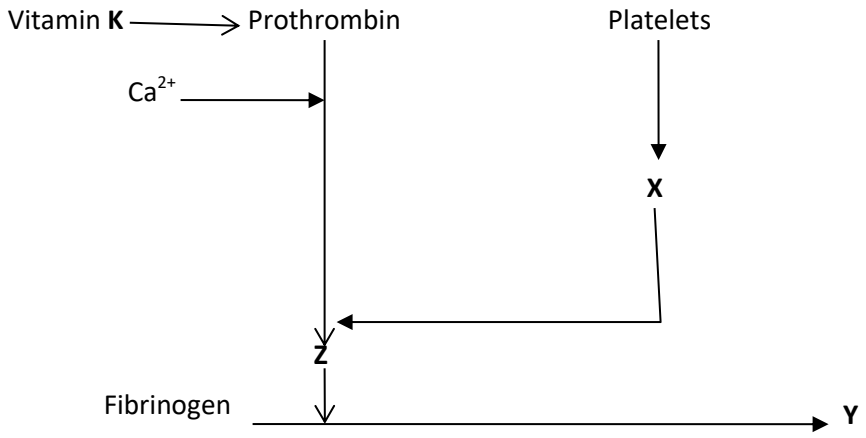
b)If the human pancrease is not functional:-

(i) Name the hormone which will be deficient 1mk

(ii) Name the disease the human is likely to suffer from 1mk

(iii What is diuresis? 1mk

15. a) The flow diagram below represents blood clotting process



i) Name the proteins represented by the letters; X,Y Z (3mks)

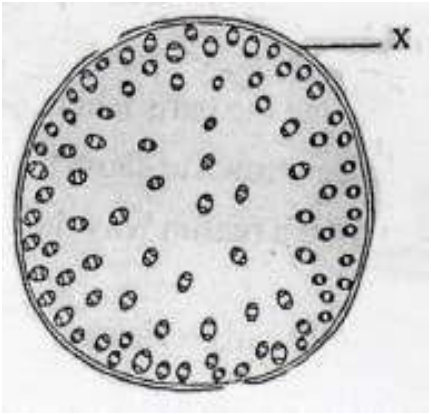
X

Y

Z

b) State the importance of blood clotting 2mks

16. The diagram below shows a transverse section of a plant organ



(a) Name the plant organ from which the section was obtained (1mk)

(b) (i) Name the class to which the plant organ was obtained. (1 mk)

(ii) Give a reason for your answer in (b) (i) above. (1 mk)

(c)Name the part labeled X (1 mk)

17. Describe the functions of various parts of the mammalian heart (20mks)

NAME:_____ADM No:_____ CLASS:____

DATE:_____SIGN:_____

565

BUSINESS STUDIES

APRIL/MAY 2022

FORM 2

2 HOURS

ENTRANCE EXAMINATION TERM 1 YEAR 2022

QUESTION PAPER

INSTRUCTIONS TO CANDIDATES

Answer all questions in the spaces provided.

1. State the term given to the following disciplines of business studies: (4 marks)

(a) Study of how man strives to satisfy his unlimited wants using the limited resources

_____

(b) Study of the process of identifying a business opportunity and acquiring resources to start and operate a business

_____

(c) Study of trade and aids to trade

_____

(d) Refers to systematic way of recording business activities which are used for decision making

_____

2. A manufacturing industry is planning to construct a warehouse. Advice the manufacturer on any **four** features that a good warehouse should have for it to function effectively. (4 marks)

(i)

(ii)

(iii)

(iv)

3. State **four** characteristics of economic resources. (4 marks)

(i)

(ii)

(iii)

(iv)

4. Draw **four** differences between a private company and a cooperative society. (4 marks)

	Private company	**Cooperative society**
(i)		
(ii)		
(iii)		
(iv)		

5. The computer is fast overtaking the typewriter as equipment for producing documents in an office. Outline **four** reasons that may account for this. (4 marks)

(i)

(ii)

(iii)

(iv)

6. Out the table given indicate the appropriate type of advertising method used. (4 marks)

	Description	**Type**
(a)	To promote a particular brand of product.	
(b)	To persuade a customer to buy a product.	
(c)	Creating awareness about a product.	
(d)	To promote the name of the company.	

7. State **four** services offered by retailers to consumers. (4 marks)

(i)

(ii)

(iii)

(iv)

8. Outline four circumstances under which a trader may choose to transport his goods by air. (4 marks)

(i)

(ii)

(iii)

(iv)

9. Highlight **four** risks owners of a supermarket may insure against. (4 marks)

(i)

(ii)

(iii)

(iv)

10. Name the factor of production that each of the following resources relate to. (4 marks)

Resources	Factor of production
(a) Manager	
(b) Equipment	
(c) Farmer	
(d) River	

11. State **four** essential business environments that positively affect performance of a business. (4 marks)

(i)

(ii)

(iii)

(iv)

12. In each of the following case a communication line is explained. Study it and identify the line of communication described. (4 marks)

(a) The principal addresses the assembly

_____

(b) All class secretaries hold a meeting in the hall to discuss indiscipline in their classes

_____

(c) Cabinet secretary of education passed by the school and gave an address as he proceeded to a national rally in a nearby stadium

_____

(d) End of year party held in the school attended by BOM members, teachers, students and support staff

_____

13. State **four** factors that may lead to the success of a business. (4 marks)

(i)

(ii)

(iii)

(iv)

14. State **four** reasons to justify the provision of essential services by the government instead of leaving them to the private sector. (4 marks)

(i)

(ii)

(iii)

(iv)

15. Highlight **four** ways in which goods are prepared for sale in a warehouse. (4 marks)

(i)

(ii)

(iii)

(iv)

16. Three partners would like to engage in a partnership form of business without a written agreement. Highlight how the partnership act will guide them regarding (4 marks)

(i) Profit and loss sharing

_____

(ii) Salary to partners.

_____

(iii) Loans given to the business by a partner

_____

(iv) Admission of a new partner

_____

17. State **four** disadvantages of promoting sales through personal selling. (4 marks)

(i)

(ii)

(iii)

(iv)

18. Highlight **four** disadvantages of water transport. (4 marks)

(i)

(ii)

(iii)

(iv)

19. In the spaces provided below, indicate the type of utility created by each of the following business activities. (4 marks)

Business activity	**Type of utility**
(a) Making a desk	
(b) Selling goods to Kamau	
(c) Transporting gods to the market	
(d) Storing goods in a shop.	

20. Identify the insurance terms described below. (4 marks)

	Description	**Term**
(i)	To transfer ownership of life policy to another person.	
(ii)	Insuring same subject for the same risk with more than one insurance company.	

(iii)	Regular payment of insurance cover.	
(iv)	Refund received on cancellation of life policy before maturity.	

21. A business opportunity may exist where there are certain gaps in the market. Highlight **four** such gaps. (4 marks)

(i)

(ii)

(iii)

(iv)

22. Highlight **four** benefits a member of a Sacco enjoys. (4 marks)

(i)

(ii)

(iii)

(iv)

23. State four advantages of enclosed office layout. (4 marks)

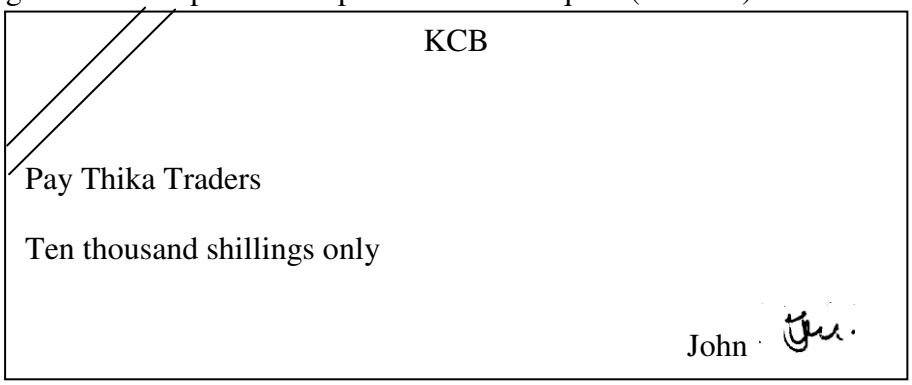
(i)

(ii)

(iii)

(iv)

24. The diagram below represents a specimen of a cheque. (4 marks)



From the above diagram indicate the following

(a) Payee

(b) Drawer

(c) Drawee

(d) Crossings

25. State **four** circumstances in which sign language may be preferred. (4 marks)

(i)

(ii)

(iii)

(iv)

FORM II ENTRANCE EXAMINATION TERM 1 YEAR 2022

CHEMISTRY EXAMINATION

Students Name: …… Adm. No……. Class: ……

Date: ……. Time **2 hrs.**

INSTRUCTIONS TO CANDIDATES

i) Write your name and admission number.
ii) Answer all the questions in the spaces provided after every question.

1. (a) Define allotropy(1mk)

(b) Name one element that exhibits allotropy (1mk)

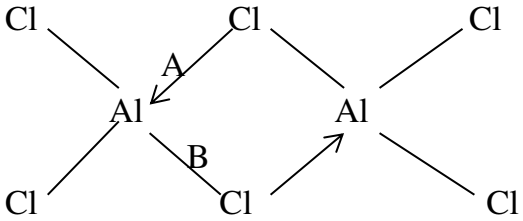
(c) Identify the two allotropes of the element named in (b) above (1mk)

2. Complete the table below (3mks)

Particle	Number of protons	Number of electrons	Number of neutrons	Mass number
Ca^{2+}	20		20	
Mg^{2+}		10	12	
Na		11		23

3. A form 1 student accidentally mixed copper (II) oxide, iodine and sodium chloride. Briefly explain how a sample of sodium chloride crystals can be obtained (3mks)

4. Below is a structure of aluminium chloride

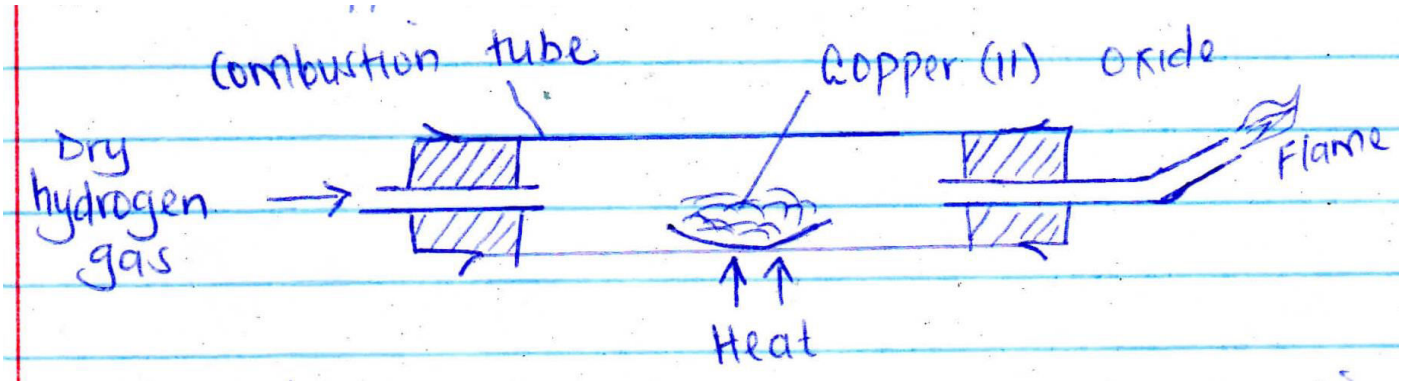


a) Identify the bonds labeled as
A – (1/2mk)

B - (1/2 mk)

b) When aluminium chloride is dissolved in water the resulting solution has a pH of 3. Explain (2mks)

5. In an experiment, hydrogen gas was passed over heated copper (II) oxide as shown below



a) Write down a balanced chemical equation that took place in the combustion tube. (1mk)

b) State and explain two observations made in the combustion (2mks)

6. You are given four elements namely A, B, C and D with electron arrangement as 2.8.1, 2.8.7, 1 and 2.6 respectively.
   a) Write down the formula of the compound formed when C and D react (1mk)

   b) Which of the four elements belong to the same
      (i) Group (1/2 mk)

      (ii) Period (1/2mk)

c) Compare the atomic and ionic radius of element A. (2mks)

7. Study the equation below and answer the questions that follow.

$PbO_{(s)} + Zn_{(s)} \longrightarrow ZnO_{(s)} + Pb_{(s)}$

a) What name is given to this type of a reaction ?Explain (2mk)

b) If lead metal and zinc (II) oxide were used, the reaction would not have taken place. Explain (1mk)

8. A form 2 student tested the pH values of solutions A,B,C and D and obtained the following results

Solution	A	B	C	D
PH	7.0	13.5	1.0	6.0

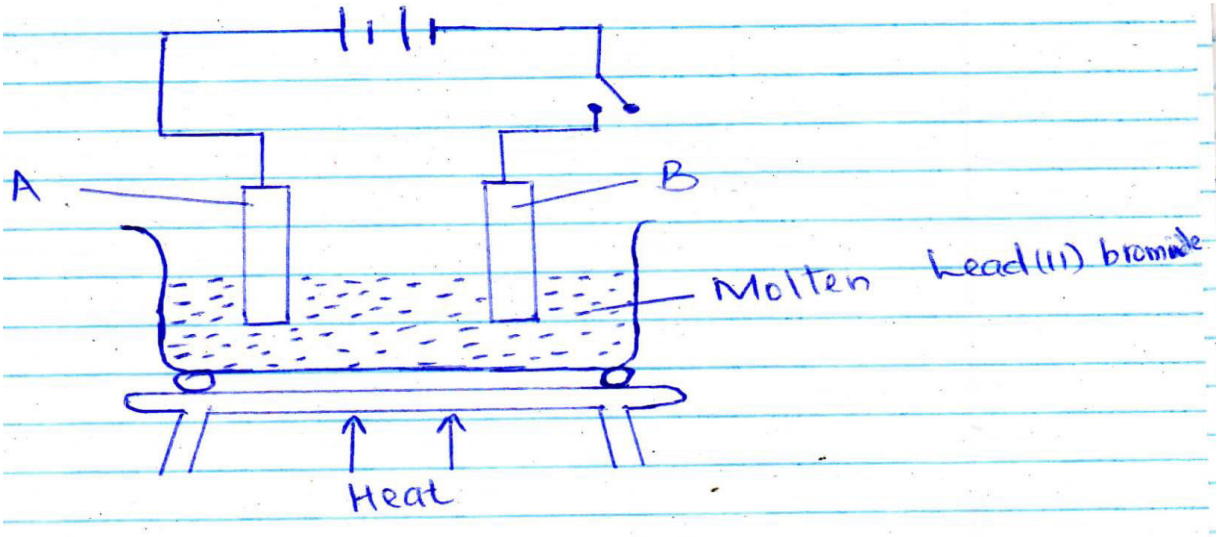
a) Which of the solutions could be
   (i) Distilled water (1/2mk)

   (ii) Ethanoic acid (1/2mk)

b) Identify two solutions that would react to form salt and water as the only product (1mk)

c) What is the name given to the reaction between B and C? (1mk)

9. The diagram below shows electrolysis of molten lead (II) bromide



a) Name electrodes

A – (1/2mk)

B - (1/2mk)

b) Write down the equation for the reaction that takes place at

Electrode A (1mk)

Electrode B (1mk)

c) Write down the overall equation for the reaction (1mk)

d) State the observations made at electrode

A - (1/2mk)

B - (1/2mk)

10. The grid below shows part of the periodic table. Study it and answer the questions that follow. The letters do not represent the actual symbols of the elements.

A						E	F	H
	B		D				G	
	C							I

a) Name the chemical family to which the following elements belong

(i) F and G (1/2mk)

(ii) B and C (1/2mk)

b) An element X has atomic number 14. Indicate its position in the periodic table. (1mk)

c) Compare the electric conductivity of A and C (2mks)

d) Element H is said to be inert. Explain. (2mks)

e) (i) write down the formula of the compound formed when element D and E reacts (1/2mk)

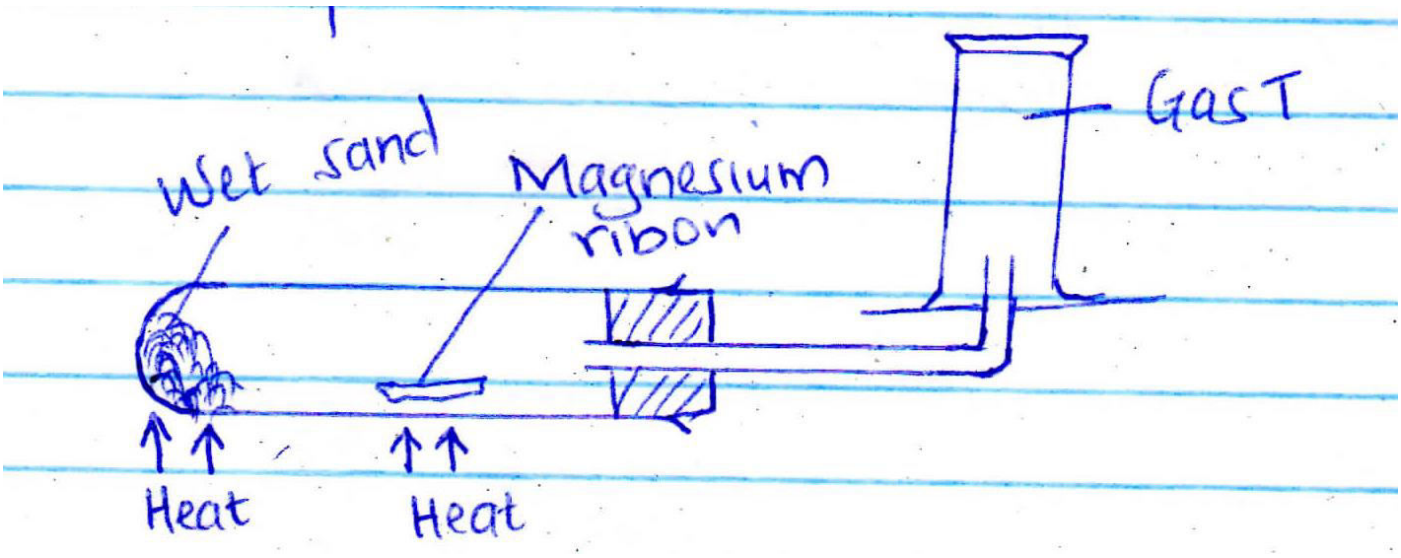
(ii) Identify the bond and structure found in the compound formed in (i) above .

(iii) Bond - (1mk)

(iv) Structure - (1mk)

f) How does the atomic radius of E and F compare? (2mks)

11. A form two student set-up the apparatus as shown below. Study it and answer the questions that follow.



a) Identify gas T. (1mk)

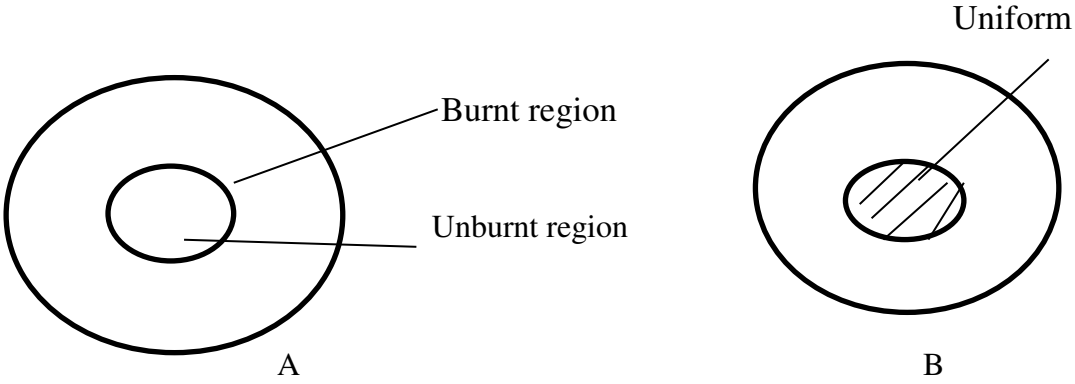
b) Write a balanced chemical equation for the reaction that took place in the boiling tube. (1mk)

c) State the test for gas T. (1mk)

12. (a) What is a flame? (1mk)

(b) Name two types of flames (1mk)

(c) The diagram below shows the appearance of two pieces of paper placed in different parts of a flame which is produced when the air hole is open and quickly removed before they caught fire.

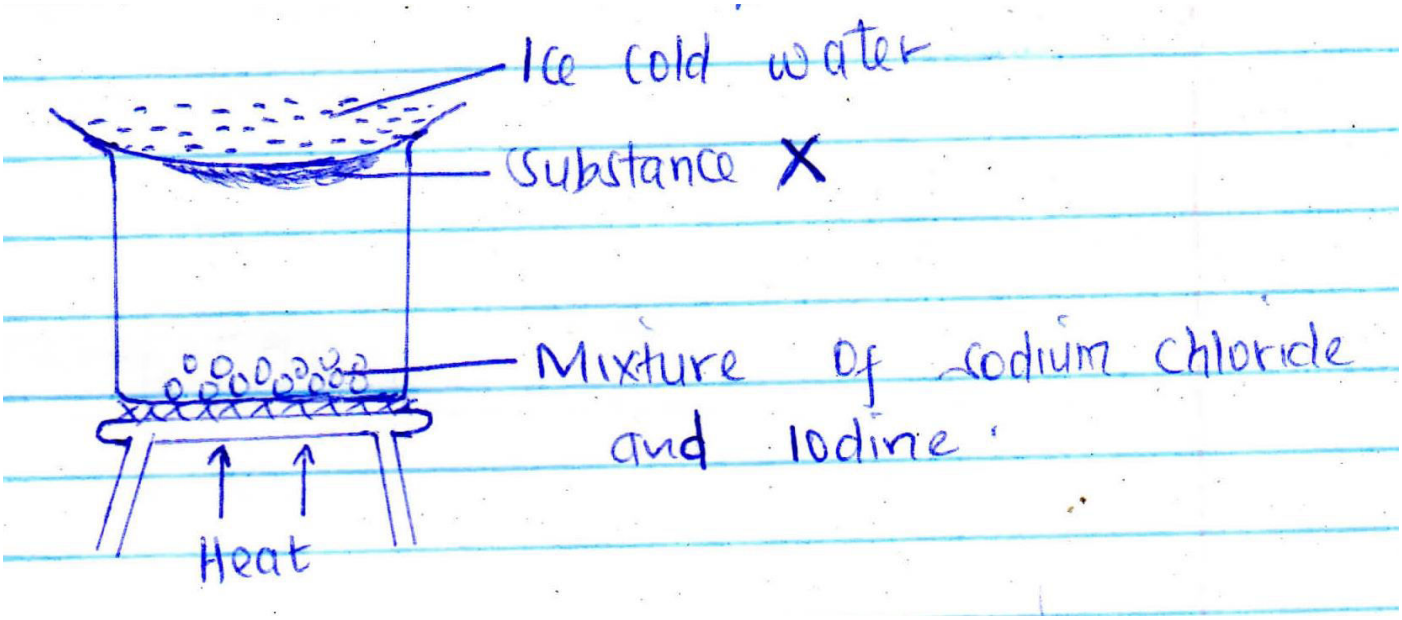


Name the parts of the flame where the papers were placed

A – (1mk)

B - (1mk)

13. The diagram below shows a separation technique. Study it and answer the questions that follow



a) Identify X (1mk)

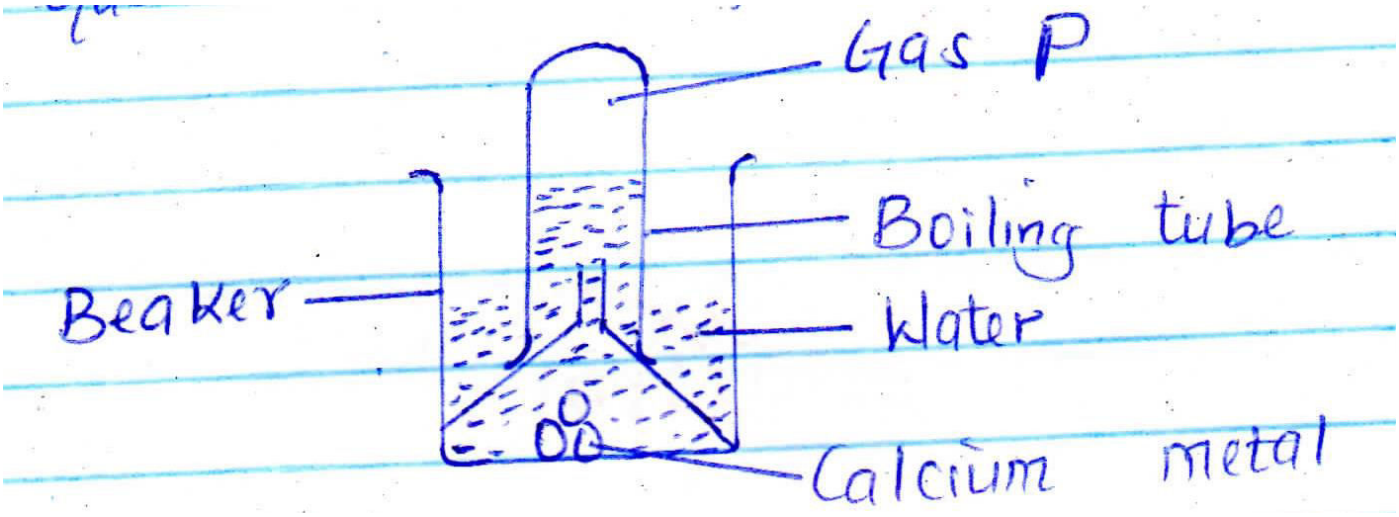
b) What is the name given to the separation method illustrated above? (1mk)

c) Explain the role played by the ice cold water (1mk)

14. (a) Define isotopes (1mk)

(b) Element L has two isotopes with mass number 62:93 and 64:93. Their percentage abundances are 69.09 % and 30:91 % respectively. Determine the relative atomic mass of L (2mks)

15. The diagram below shows reaction between calcium metal and water. Study it and answer the questions that follow.



a) Identify gas p (1mk)

b) Write an equation for the reaction that took place. (1mk)

c) State the observation made when a blue and a red litmus paper are dipped in the resultant solution (2mks)

16. State three differences between a physical and a chemical change (3mks)

Physical	Chemical

17. Using a dot(**.**) and cross(**x**) diagram, show the bonding in the following
    i) Hydroxonium ion (H_3O^+) (2mks)

ii) Sodium chloride (NaCl) (2mks)

iii) Carbon (IV) oxide (CO_2) (2mks)

18. (a) State two conditions necessary for rusting (1mk)

(b) What is the chemical name for rust? (1mk)

(c) Name two methods that can be used to prevent rusting (2mks)

19. (a) When a blue litmus paper is dipped in chlorine water, it changes to red and then white. Explain this observation (2mks)

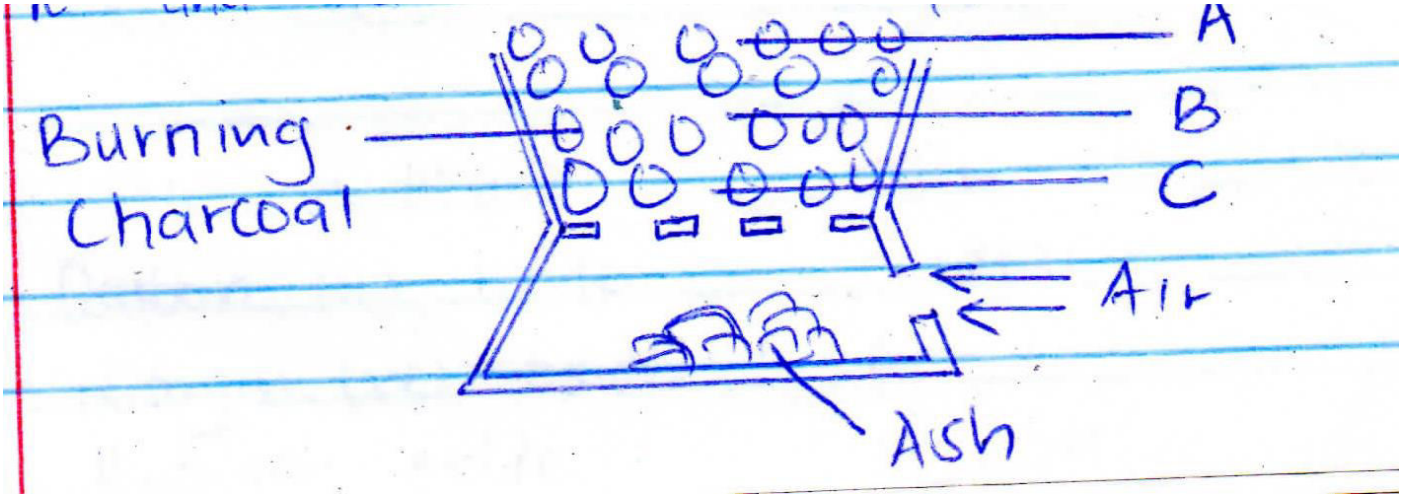
(b) Write two equations that show the observation made above. (2mks)

20. Write down balanced chemical equations to show what the following salts produce when heated strongly.
(a) KNO_3 (1mk)

(b) $NaHCO_3$ (1mk)

(c) $FeSO_4$ (1mk)

21. The diagram below shows a burning jiko. Study it and answer the questions that follow



a) Briefly explain what happens in the parts labeled (1mk)
A

B

C

b) Why is it not advisable to use a jiko in a poorly ventilated room? (2mks)

c) How is carbon (IV) oxide gas tested (1mk)

22. State three ways in which purity of a substance can be determined (3mks)

23. Categorize the following oxides as either acidic, neutral or basic (2mks)
a) Sodium hydroxide -

b) Carbon (IV) oxide-

c) Nitrogen (IV) oxide-

d) Hydrogen oxide -

24. Write down the formula of the following compounds.
a) sodium sulphate (1mk)

b) Ammonium chloride (1mk)

25. Explain the following observations.

a) Molten magnesium chloride conducts electricity whereas solid magnesium chloride does not. Explain (2mks)

b) Propane and ethanol have close molecular mass, but ethanol has a higher melting point than propane. (2mks)

26. (a) Name three sub-atomic particles ($1\frac{1}{2}$mks)

(a) What is the name given to a group of atoms with a net charge that exist and react as a unit during chemical reactions?($\frac{1}{2}$mk)

(b) Complete the table below (2mks)

Particle	Oxidation number	Valency
X^{2+}		
Y^{2-}		

27. (a) Balance the chemical equation below (1mk)

$NaCl(aq) + Pb(NO_3)_2(aq) \longrightarrow PbCl_2(s) + NaNO_3(aq)$

(b) The reaction illustrated in (a) above shows a method of salt preparation.

Identify the method. (1mk)

FORM II ENTRANCE EXAMINATION TERM 1 YEAR 2022

COMPUTER EXAMINATION

Students Name: …… Adm. No……. Class: ……

Date: ……. Time **2 hrs.**

INSTRUCTIONS TO CANDIDATES

i) Write your name and admission number.
ii) Answer all the questions in the spaces provided after every question.

1. Write the following abbreviations in full [4mks]

CPU

_____

DRAM

_____

ROM

_____

BIOS

_____

2. Differentiate between the following terms [6mks]

Data and information

_____

_____

Hardware and software

_____

_____

Softcopy and hardcopy output

_____

_____

3. a) What is a peripheral device? Give two examples of peripheral devices. [4mks]

_____

_____

_____

b) Mention four major categories of computer hardware. [2mks]

_____

_____

_____

4. State four characteristics of fifth generation computers. [4mks]

5. a) Write the following abbreviations in full: [3mks]
   ENIAC

   ICT

   EDVAC

   b) Describe three major ways of classifying computers. [6mks]

6. a) Define the term computer laboratory. [2mks]

   b) State four standard conditions a computer laboratory should meet. [4mks]

7. a) What is a UPS? [2mks]

   b) Describe two major functions of a UPS. [4mks]

c) Explain the following terms in relation to power supply problems.

Brownout [2mks]

Blackout [2mks]

Power sag [2mks]

8. State four advantages of using voice recognition devices. [4mks]

9. Describe three types of registers. [6mks]

10. State four differences between a CRT and a flat panel screen. [4mks]

Cathode ray tube	Flat panel display

11. State any three factors to consider when choosing a monitor. [3mks]

12. State any four factors to consider when choosing storage devices. [4mks]

13. a) List and explain three examples of utility software. [6mks]

b) State three factors which determine the cost of a computer system. [3mks]

14. Define a file and a folder. [2mks]

15. a) Differentiate between type-over and insert mode as used in word processing. [2mks]

b) List two types of word processors. [2mks]

c) Differentiate between formatting and editing as used in word processing. [2mks]

d) List five toolbars available in a word processor. [5mks]

_____

_____

16. Define the following terms as used in worksheet list management: [8mks]

a) Sorting

_____

_____

b) Filtering

_____

_____

c) Subtotals

_____

_____

d) Data validation

_____

_____

17. a) What is a database? [2mks]

_____

_____

b) List four advantages of using a database in storage of records. [4mks]

_____

_____

_____

_____

_____

_____

NAME …… ADM. NO. ……

STREAM …… DATE …… CANDIDATE'S SIGN ……..

FORM TWO

101

ENGLISH/LITERATURE

(INTEGRATED PAPER)

APRIL/MAY 2022

INSTRUCTIONS TO CANDIDATES

1. Answer **ALL** the questions in this question paper
2. **ALL** your answers **MUST** be written in the spaces provided in this question paper.
3. Answer the questions in English

FOR EXAMINER'S USE ONLY

	QUESTIONS	**MAXIMUM SCORE**	**CANDIDATE'S SCORE**
1.	WRITING	20	
2.	CLOZE TEST	10	
3.	ORAL SKILLS	25	
4.	POETRY	20	
5.	GRAMMAR	25	
TOTAL SCORE		**100**	

1. WRITING - 20 MARKS

(a) The habit of failing to do assignments in your class has become rampant. You don't like it and you want to design a poster to warn your classmates against it. Design that poster.
(10 marks)

……...

……...

……...

……...

……...

……...

……...

……...

……...

……...

……...

……...

……...

……...

……...

……...

……...

……...

……...

……...

……...

……...

……...

……...

……...

……...

(b) Your desk mate had done her assignment and requested you to present her book to your teacher of English. You failed to take her book to the teacher. Write a letter of apology to your desk mate apologizing for the mistake. (10 marks)

2. CLOZE TEST – 10 MARKS

Fill in each blank space in the passage below with the most appropriate word.

When it (1) ……to your turn to speak, move to the front of the room and face the (2) …….. Assume a relaxed but upright posture. Plant your feet firmly (3) …… the floor and allow your arms to hang (4) …… by your side. Arrange your (5) …… before you start to speak. Then take a moment to look over and smile. (6) ……..will help you to establish (7) ……. and your listeners from the start. Once you are into the speech feel free to use your hands to (8) ……., but don't worry overly; about (9) ……..these ahead of time. If you don't normally use your hands expressively during informal conversations, then you shouldn't feel <u>compelled</u> to do this a lot during your speech; whatever signs you use should flow (10) …….. and Spontaneously.

3. ORAL SKILLS – 25 MARKS

(A) Study this tongue-twister. Ni nini kikusikitishacho?

(i) Translate into English (1 mark)

……...
……...
……...
……...

(ii) What effect does the translation have on it? (2 marks)

……...
……...
……...
……...

(iii) State two functions of tongue twisters. (2 marks)

……...

……...

……...

……...

(B) For each of the following words given, provide another with the same pronunciation.(5 marks)

(i) Billed ……

(ii) Ate ……

(iii) Quay …….

(iv) Neigh ……

(v) Wet ……

(C) You are stranded at a bus stop. You decide to call your Principal to report that you cannot arrive in school in time for classes. Below is a part of the telephone conversation. Fill the other part. (6 marks)

You: …….. (1 mark)

……..

……...

School secretary: I'm sorry the principal is in a meeting and cannot speak to you at the moment.

You: …….. (1 mark)

……..

……...

School secretary: May I know your class teacher please?

You: …….. (1 mark)

……..

……...

School secretary: I'm sorry Mrs Mwangi is already in class. Can you please leave a message?

You: …….. (1 mark)

……..

……...

School secretary: Oh, Mrs Muli is your house mistress? Just hold on as I connect you to her.

Mrs Muli: Hello. What can I do for you?

You: …….. (1 mark)

……..

……...

Mrs Muli: Sorry, I'll inform your class teacher about your predicament. Bye for now.

You: …….. (1 mark)

……..

……...

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

The Bride

Why do you wear that dress so white?
Why do you wear that veil so light?
Why do your young eyes shine so bright?
Is it your wedding?

I wear dress and veil to show
That gladly to my love I go
My young eyes shine because I know
It is my wedding.

(i) What is the rhyme scheme of this poem? (2 marks)

……

……

…….....

(ii) Using illustrations show how rhythm has been has been achieved in the poem. (3 marks)

……

……

…….....

E. Indicate by underlining the stressed syllable in the following words. (4 marks)

	Verb	**Noun**
(i) Refuse	…….	……..
(ii) Project	…….	……..

4. COMPREHENSION (POETRY) – 20 MARKS

Read the poem below and answer the questions that follow.

You embarrass me …
Mwananchi
Why do you embarrass me with your questions
About the new Mercedes I bought
The large farm I own
The houses, the wives,
An inflated stomach!

Mwananchi
Why do you threaten me with your threats
The threats in your bloodshot eyes
Fixedly pointed at me wherever I go
Like if you are ready
To release the arrow that will deflate me
Into nothingness;
Even the watchmen, the dogs, the police
Are all not enough to protect me
From your increasing shouts to protest
Against my good judgement;

Mwananchi
Have your forgotten how you loved me
And gave me your vote
That I may be your man in parliament?

Now that I have the power
I will mend your confused senses
And keep you in prison
Until you see me as your leader again
And keep those bloodshot eyes away from me.

I will charge like an angry lion
And scare you out of your wits
Until like a frightened dog,
You keep your head forever …
Everett M. Standa

(a) Identify the persona in the poem. (2 marks)

……

……

(b) What is the message of the poem? (4 mks)

……

……

……

……

(c) Identify and comment on any two aspects of style in the poem. (6 mks

……

……

……

……

……

……

……

……

(d) Describe the tone of the poem. (2 marks)

……

……

……

……

……

……

……

(e) Identify and illustrate two character traits of Mwananchi. (4 mks)

……

……

……

……

……

(f) Explain the meaning of the following words and phrases as used in the poem. (2 marks)

(i) Inflated stomach

……

……

…….....

(ii) Scare you out of your wits.

……

……

…….....

5. GRAMMAR 25 MARKS

A. Combine each pair of simple sentences below to make a complex sentence. (5 marks)

(i) The doctor must be tired. She had no sleep last night.

……

……

(ii) A lady will call to see me. Please ask her to wait.

……

……

(iii) It was very hot last night. I still slept well.

……

……

(iv) He spoke very softly. Nobody could hear what he said

……

……

(v) She is a great orator. That cannot be denied.

……

……

B. Underline the verb phrases in the following sentences. (5 marks)

(i) I have been studying English for ten years.

(ii) Many people do not Accept clones.

(iii) Scientists are doing a lot of research.

(iv) Dolly did not have a long life.

(v) The wedding has been cancelled.

C. Fill in the blanks with the most appropriate subordinating conjunction from the box. (5 marks)

So that, when, although, whenever before, how, while, why, once, until

(i) She sheltered in our house ……the rain stopped.

(ii) Nyagaka studied French ……..he would apply for a job in the United Nations.

(iii) ……the food was still growing in the shamba, we had absolutely nothing to eat.

(iv) It is a mystery …….. the man came back for the girl.

(v) Mwadime gets very happy …….his mother-in-law visits him.

D. Join each pair of sentences appropriately with the words given in brackets. (5 marks)

(i) She was successful. She felt dissatisfied. (In spite of her …...)

……

……

(ii) I wish to go to the cinema. I do not want to sit here doing nothing. (Instead of)

……

……

(iii) A few buses are running. There is a strike. (In spite of……)

……

……

(iv) The President returned homefrom Cairo. There is unrest in the country.
(because of ……)

…….

…….

(v) He is in a stable condition. He lost a lot of blood. (despite…….)

…….

…….

E. Use the verb given in brackets in its progressive aspect. Use the appropriate auxiliary. (am, is, are) to go with the verb. (5 marks)

(i) The guests …… dinner now. (eat)

(ii) She …… very fast. (run)

(iii) Nakato ……to visit me today. (come)

(iv) You …….. to me (not listen)

(v) Njue …… the baby. (feed)

THIS IS THE LAST PRINTERD PAGE.

NOM ……

NUMERO ……

CLASSE ……

TIME: 2HRS

ENTRANCE EXAMINATION TERM 1 YEAR 2022

FRENCH FORM TWO

Instructions to candidates

- *Attempt all questions.*
- *Answer all the questions in the spaces provided.*
- *All questions must be answered in French.*

SECTION	MAXIMUM SCORE	SCORE
1	10	
2	80	
3	10	
TOTAL SCORE		

SECTION I

This paper consist of 9 printed pages Candidates should check the question paper to ensure that both pages are printed as indicated and no questions are missing.

SECTION I: READING COMPREHENSION (10 marks)

Read the passages below and use it to answer questions that follow:

PASSAGE I

Le matin, Paul est Venu à l'école en bus. Il est arrivé très tôt. Le professeur est arrivé après lui. Il est entre en classe. Il est monté sur la chaise pour effacer le tableau. Il est tombé par terre ! Paul est sorti sans un mot. Il est allé à l'infirmerie. Il est revenu avec de l'aspirine pour lui ; heureusement qu'il est venu très tôt, avant cet incident. Les autres élèves sont arrivés plus tard.

Questions :

1. Comment est-ce que Paul est Venu à l'école ? (1 pt)

   .....

   .....

2. A quelle heure est-ce qu'il est arrivé ? (1 pt)

   .....

   .....

3. Qui est tombé par terre !? Pourquoi ? (1 pt)

   .....

   .....

4. Où est-ce que Paul est allé après cet incident ? (1 pt)

   .....

   .....

5. Qui est arrivé plus tard ? (1 pt)

   .....

PASSAGE II

Mon nom c'est Jeanine. Je suis française. Je travaille à Marseille et j'habite à Montpellier en France. A Marseille, je travaille au lycée. Je suis informaticienne. Samedi, je rends visite à mes parents. Ils habitent à bordeaux et ils travaillent aussi à Bordeaux.
Ma mère s'appelle Mathilde. Elle travaille à l'hôpital. Elle est infirmière. Mon père s'appelle Philippe et il travaille comme infographiste dans une compagnie privée. Ma sœur s'appelle Elaine. Elle travaille dans la République Démocratique du Congo en Afrique. Elle habite à Kinshasa. Elle est diététicienne. Mon frère marcel est coiffeur dans un grand salon à paris.

Questions

1. O travaille Jeanine ? …… (½ mk)
2. Quelle est sa nationalité ? …… (½ mk)
3. Jeanine habite à …… (½ mk)

4. Donnez les professions de ; (½ mk each)
   (i) Jeanine _____
   (ii) Elaine _____
   (iii) Marcel _____
   (iv) Mathilde _____
   (v) Philippe _____

5. Que fait Jeanine le samedi ? ……. (½ mk)

II. Re-write the passage in passé composé paying attention on the underlined verbs. (10 pts)

‘‘Je m’appelle Traore. Je suis sénégalais. J’habite à Dakar. Je parle français, un peu anglais et mandingue. Je vais au lycée Sedar Sengho. Notre directeur s’appelle monsieur Mamadou Diallo. Il est très sévère. A l’école, nous jouons au football, basketball et hockey. Pendant les week-ends, je reste à la maison où j’aide mes parents mais au samedi quelque fois, mes amis et moi, nous allons à la plage. Nous nous y baignons.

.....

.....

.....

.....

.....

.....

.....

III. Complete with the appropriate pronouns. (10mks)

Exemple: Les dames prennent des chaises et……..asseyent.
Et elles s’assseyent.

1. Nous prenons une douche et ensuite……habillons
2. Oui, je suis fatigué,……..assieds.
3. Tu es en retard, n’est-ce pas, alors……dépêches.
4. Vous mettez la valise dans le filet et ensuite……asseyez.
5. Je suis malade, ……couche.
6. Les élèves entrent dans la classe et…….installent.
7. A 7 heures, je me lève et……..habille.
8. Il y a des places dans ce compartiment,……..installons.

9. La classe commence dans une minute, les élèves……dépêchent.

10. Il est minuit, ……couchons.

IV. Complete using the appropriate article as in the example: (10 mks)

Exemple ; Est-ce que vous voyez les jeunes filles?

- Oui, je **les** vois.

1. Est – ce que vous voyez les assiettes?

Oui …….

2. Est-ce que vous voyez le lait?

Oui,.....

3. Est-ce que vous voyez les petits pains?

Oui,.....

4. Est-ce que vous voyez la mer?

Oui,.....

5. Est-ce que vous voyez la bicyclette de Marie?

Oui,.....

6. Est-ce que vous voyez le cinéma?

Oui,.....

7. Est-ce que vous voyez les agents de police?

Oui,.....

8. Est-ce que vous voyez la voiture de Papa?

Oui,.....

9. Est-ce que vous voyez les fleurs jaunes?

Oui,.....

10. Est-ce que vous voyez la maison du professeur?

Oui,.....

V. Respond using près de/loin de (10 mks)

Exemples: - Pierre habite près de l'école?

Non, il habite **loin de** l'école.

- Je suis loin de la table?

  Non, tu es **près de** la table.

1. Tu habites près de Paris?

Non,.....

2. vous habitez loin de l'école

Non, ...

2. Pierre habite près du lac?

Non,.....

3. Nous habitons loin de la mer?

Non,.....

4. Vous êtes près des voitures?

Non,.....

5. Elle est loin de la table?

Non,.....

6. Nous sommes près de la mer?

Non,.....

7. Les camarades jouent près de l'agent de police?

Non,.....

8. Maman est assise près de la porte?

Non,.....

9. Papa est assis près de garçons?

Non,.....

10. Le bureau se trouve loin de la route ?

Non, ……...

VI. Answer using pronom Y/EN (6 pts)

1) Est-ce que Jean-Pierre vient de paris ?

   Non, il ……,

2) Vous habitez à Bamako ?

   Oui, je ……..

3) Ta mère va chez la boulangère ?

   Oui, elle …….

4) Tu veux un soda ?

   Bien sûr, je ……

5) Vous avez travaillé à la maison française monsieur ?

   Non, ……..

6) Les Blancs viennent des états unis ?

   Oui, ils ……...

VII. You are going to your friend's house for the first time. He/she has given you written instructions. Unfortunately, the paper got wet in the rain and some words are no longer clear. (8mks)

Re-write the message correctly.

''Descende l'autobus dev …….le cinéma vox. Trav.....la rue et le grand café avant de tourner à dr..... Pre.....la troisième rue .....che, puis continuez ..... dr.....

Au rond-point, juste après la banque, tournez à droite et tu es chez moi, au №.6, à c..... de la pharmacie''

.....

.....

.....

.....

.....

.....

VIII. Dictée

Write the dictation passage in the spaces provided below. (10 mks)

a) ----------

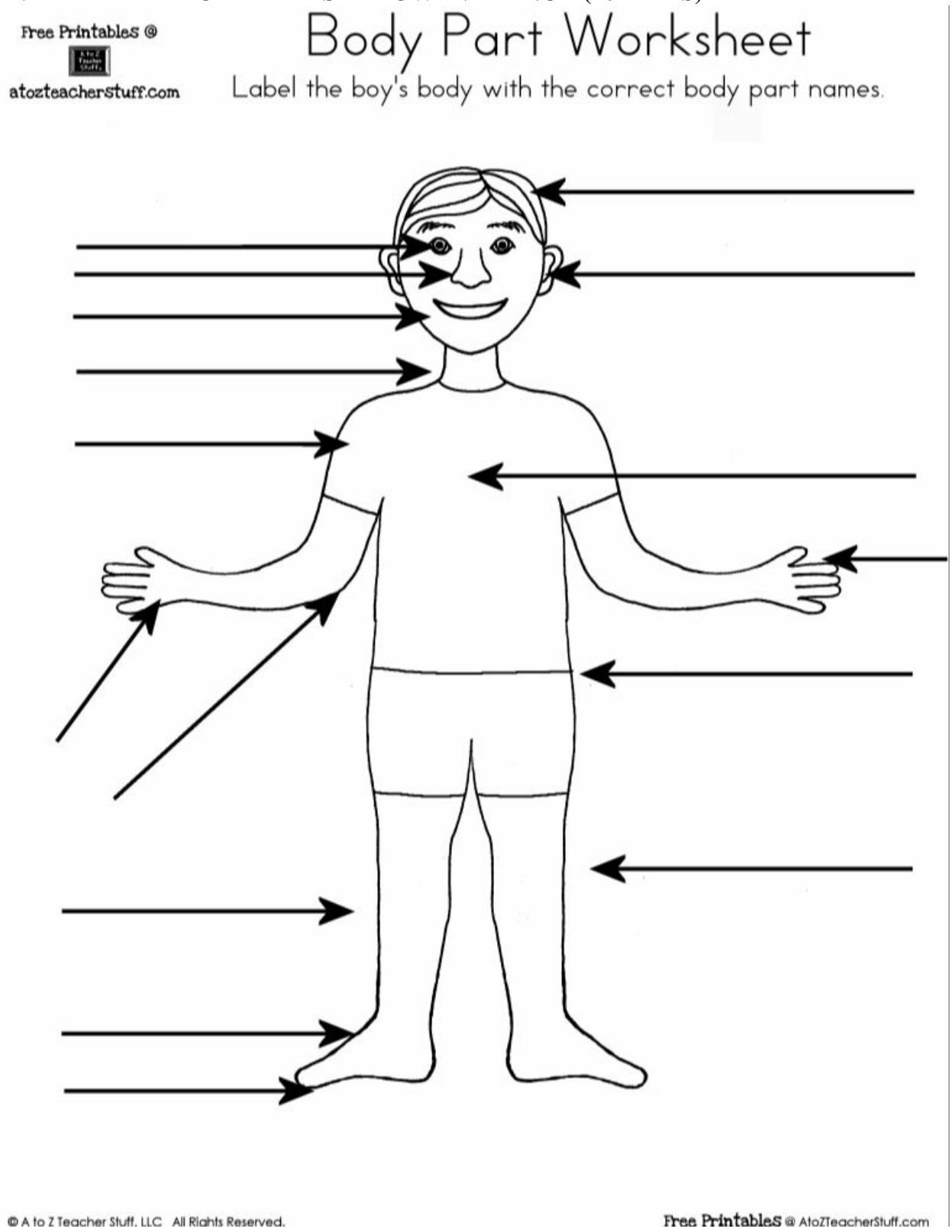
b) ----------

c) ----------

d) ----------

e) ----------

IX. LABEL THE BODY PARTS BELOW IN FRENCH (16 MRKS)



SECTION II: WRITING (10 MKS)
Write one composition in French on
Either

(i) « MON JOUR TYPIQUE » (my typical day).
Nb; use pronominal verbs and your essay should not be less than ten lines.
Exemple; je me réveille à 6hoo ……..

Or
(ii) « Une conversation au marché/magasin » Imaginez un dialogue entre un(e) vendeur (euse) et un(e) client(e).

NAME…….ADM. NO……

312

GEOGRAPHY FORM TWO

ENTRANCE EXAMINATION TERM 1 YEAR 2022

TIME 2HOURS

INSTRUCTION

1. Answer **all** the question in the spaces provided.
2. Check the question paper to ensure **all** the question are available and none is missing.
3. Answer **all** the question in English.

1. a) Define the term equinox (1mk)

   b)Name the time of the year when equinox is experienced (2mks)

   c) What is the time at Hola 40^oC , when the time at Accra in Ghana 0^o is 12.00 noon (3mks)

2. a) Differentiate between tensional force and compressional force (2mks)

   b) Apart from normal fault , list three other types of faults (3mks)

   c)Draw a well labeled diagram of a normal fault (4mks)

d)Explain **three** ways in which features resulting from faulting positively influence kenya's economy (
6MKS)

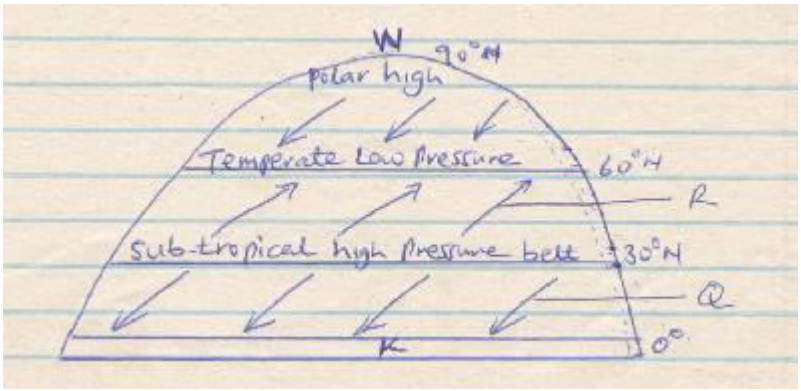
3. a) (i) Define the term weather (2mks)

ii) Apart from precipitation , list **four** other elements of weather (4mks)

iii) Apart from rain name **three** types of precipitation that occurs in Kenya (3MKS)

b)While using a well labeled diagram describe how relief rainfall occurs (8mks)

4. a) Study the diagram below and answer question i, ii, and iii



i. Label the part marked W

ii. Name the pressure belt labeled K

iii. Identify the wind labeled

Q -
R -

b)i) What do the initials I.T.C.Z stand for ? (1mk)

ii. State four characteristics of ITCZ (4mks)

5. a) what is a minerals? (2mks

b)Describe the following characteristics of minerals
i. Colour(2mks

ii.Hardness (2mks

c)Fill in the part of the table labeled A ,B , C and D in the table below

Original rock	Type of rock	New rock
Sandstone	Sedimentary	A
B	C	Gneiss
D	sedimentary	Marble

A
B
C
D

d)Give four uses of rocks (4mks)

6. a) (i) What is vegetation ?(2mks)

ii.Describe the characteristics of Equatorial forest (4mks)

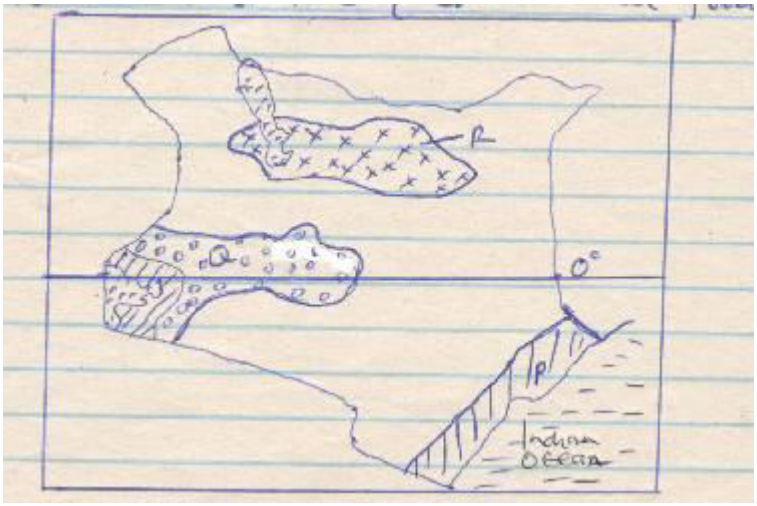
iii. Name the grasslands found in the following regions
-North America
-South America

-Australia

b) You are planning to carry out a field study in a forest near your school.
i) List two sources of information you are likely to use before the actual field study (2mks)

ii)State three ways how you would identify different types of plants (3mks)

7. Study the map of Kenya showing climate regions .
Use it to answer the question that follows

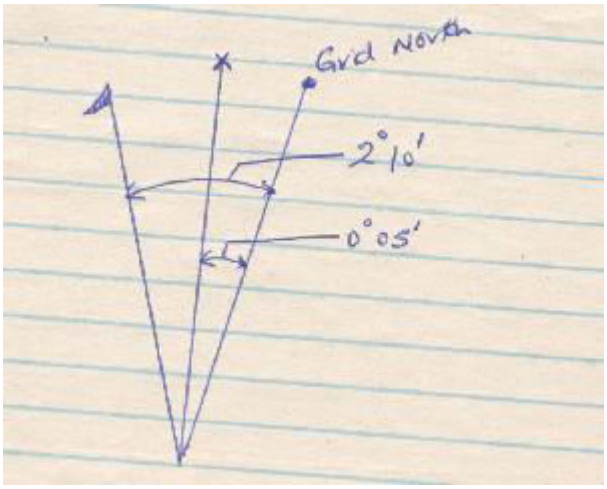


i) Identify the climatic region marked P and Q
P
Q

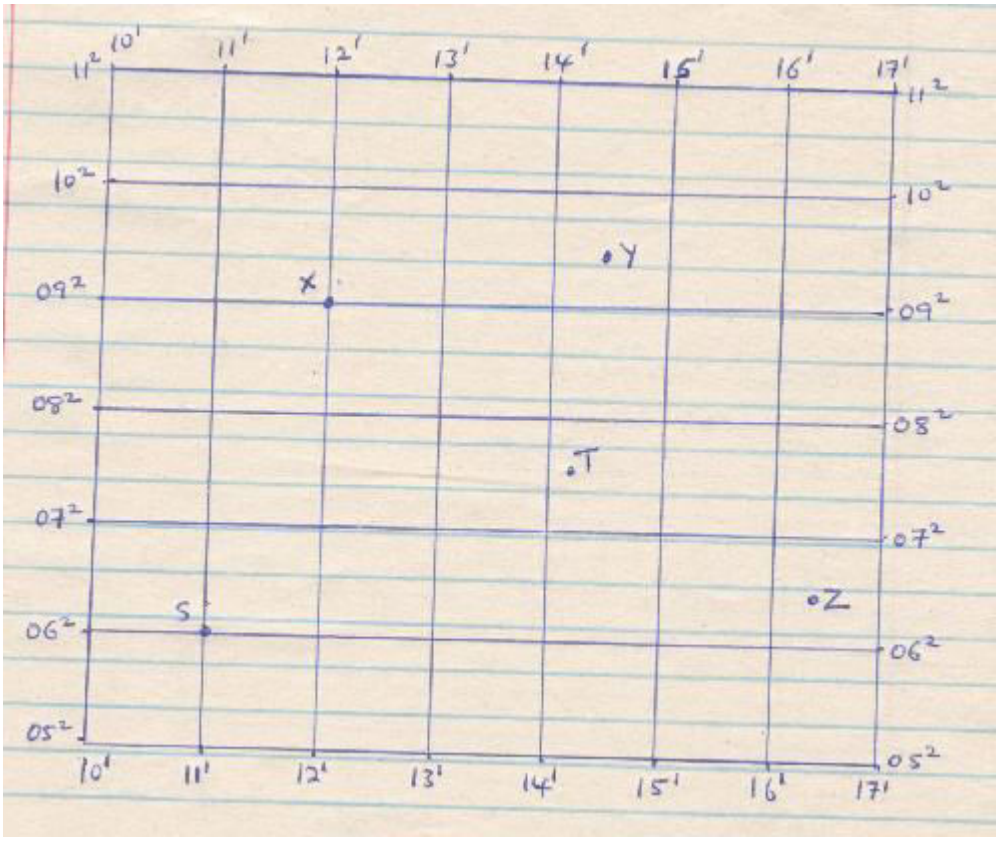
ii) State two characteristic of the climatic region marked L(3mks

8. a) Name two methods used to represent relief on a topographical map (2mks

b)The diagram below represent a compass on a topographical map . Calculate the magnetic variation



c)Study the map extract below and answer the question that follows



i. Give the four figure reference for points

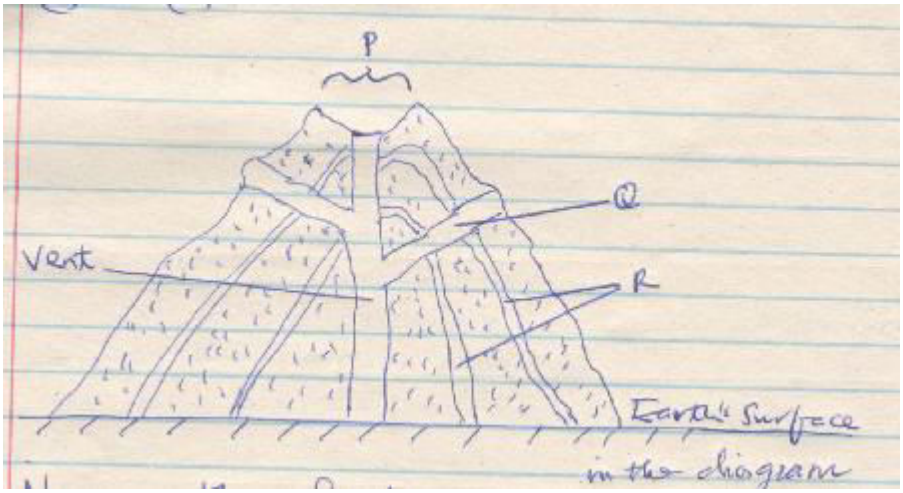
X

Y

Z

ii. Calculate the bearing of point S from T(2m

9. (a) Study the diagram below and answer question (i) and (ii)



i. Name the feature shown in the diagram above(1mk

ii. Identify the features labeled P , Q and R (3mks)

P

Q

R

b) Describe how geysers are formed (5mks

NAME: _____ADM NO_____

CLASS: _____ SIGN_____

HISTORY AND GOVERNMENT

TERM 1 2022

FORM II

TIME: 2 HOURS

INSTRUCTION TO CANDIDATES

1) Answer All Questions in the Spaces provided
2) All Answers Must be written in English.

SECTION A (25 MARKS)

Answer All questions in this section

1) State one branch of history (1mk)

i)……

2) Give two functions of the council of elders among the Nandi (2mks)

i) ……

ii)……

3) Apart from Carbon 14, name the other chemical method of dating fossils (1mk)

i)……

4) What is dual citizenship (1mk)

i)……

5) Sate the main disadvantage of the sailing ship (1mk)

i)……

6) Name two ancient forms of picture writing (2mks)

i)……

ii)……

7) Give the contribution of Alexander Flemming in the field of medicine (1mk)

i)……

8) Mention two uses of iron (2mks)

i)……

ii)……

9) State the main reason for the growth of Kilwa (1mk)

i)……

10) State two sources of energy used by ancient communities (2mks)

i)……

ii)……

11) Name two officials who assisted the Kabaka in administration (2mks)

i)……

ii)……

12) Give two items acquired from Europe during the Trans-Atlantic trade (2mks)

i)……

ii)……

13) Name two missionaries who worked along the coast of Kenya in the mid – 19th century (2mks)

i)……

ii)……

14) Identify two natural factors that facilitated the coming of Arabs to the East African Coast (2mks)

i)……

ii)……

15) Define the term Democracy (1mk)

i)……

16) Name the type of constitution used in Britain (1mk)

i)……

17) Name one organ of the government of Kenya (1mk)

i).....

SECTION B (45 MARKS)

Answer all questions in this section

18)a) Name three materials used by early man to make tools (3mks)

i).....

ii).....

iii).....

b) Describe how the invention of five transformed man's way of life (12mks)

i).....

ii).....

iii).....

iv).....

v).....

vi).....

19)a) Name five early visitors to the coast of East Africa (5mks)

i).....

ii).....

iii).....

iv).....

v).....

b) Explain why plantation Agriculture was successful in East Africa during the rule of Seyyid Said (10mks)

i).....

.....

ii).....

.....

iii).....

.....

iv).....

.....

v).....

.....

20)a) Identify five traditional methods of communication (5mks)

i).....

ii).....

iii).....

iv).....

v).....

b) Explain five impacts of scientific inventions on agriculture (12mks)

i).....

.....

ii).....

iii)……

……

iv)……

……

v)……

……

SECTION C (30 MARKS)

Answer all questions in this section

21)a) State five roles of Kukiiko in Buganda Kingdom (5mks)

i)……

ii)……

iii)……

iv)……

v)……

b) Explain the political organization of the Asante (10mks)

i)……

……

ii)……

……

iii)……

……

iv)……

……

v)……

……

22)a) State three rights of an arrested person in Kenya (3mks)

i)……

ii)……

iii)……

b) Explain six factors that undermine national unity in Kenya (12mks)

i)……

……

ii)……

……

iii)……

……

iv)……

……

v)……

……

vi)……

……

HOMESCIENCE EXAMINATION

FORM II

TIME: 2 HOURS

Answer all the questions in the spaces provided.

1. Suggest 2 ways of preventing falls in the house. (2mks)

……

……

2. Give two examples of self-neatened seams. (2mks)

……

……

3. Mention two reasons why consumer education is important. (2mks)

……

……

4. Give the difference between sedimentation and filtration. (2mks)

……

……

5. State 3 positive effects of advertisements on the consumer. (3mks)

……

……

……

6. Name three foods that can be given in the management of kwashiorkor. (3mks)

……

……

……

7. State two dangers posed by poor disposal of household refuse. (2mks)
8. State any 3 precautions to observe when using a charcoal iron. (3mks)

……

……

……

9. Give 2 reasons for pressing during garment construction. (2mks)

……

……

10. State three advantages of building a family house. (3mks)

……

……

……

11. Sketch and name any three pattern symbols which need to be transferred to fabric for garment construction processes. (3mks)

……

……

……

……

12. Mention any three functions of the skin. (3mks)

……

……

……

13. Mention two advantages of frying food. (2mks)

……

……

14. Name three labour saving equipment used in modern kitchens. (3mks)

……

……

15. Suggest three ways through which a cookery apron can be decorated. (3mks)

……

……

……

16. State two advantages of a well planned kitchen. (2mks)

……

……

17. State three undesirable qualities of synthetic fibres. (3mks)

……

……

……

18. Name two methods of removing fixed dirt from terrazzo floor. (2mks)

……

……

19. Give 5 signs and symptoms of tuberculosis. (5mks)

……

……

……

……

……

……

20. Explain 5 reasons for cleaning a house. (10mks)

……

……

……

……

……

……

……

……

……

……

21. Explain five precautions to be taken when handling kitchen equipment. (10mks)

……

……

……

……

……

……

……

……

……

……

22. Explain any 5 causes of malnutrition. (10mks)

……

……

……

……

……

……

……

……

……

……

……

……

23. With the aid of two labeled diagrams describe how to make an overlaid seam. (10mks)

24. Explain 5 points on the care of ironing board. (10mks)

……

……

……

……

……

……

……

……

……

……

……

……

JINA:----------NAMBARI YAKO:----------

SHULE:---------- SAHIHI:----------TAREHE:----------

102

KISWAHILI

APRILI 2022

MUDA: 2 ½

KIDATO CHA PILI 2022

MAAGIZO

(i) Andika jina lako na nambari yako katika nafasi ulizoachiwa hapo juu.

(ii) Tia sahihi yako na uandike tarehe

(iii) Jibu maswali yote

(iv) Majibu yote yaandikwe kwa lugha ya Kiswahili.

Kwa matumizi ya mtahini pekee

	Swali	Upeo	Alama
A	Ufahamu	15	
B	Matumizi ya lugha	40	
C	Isimujamii	10	
D	Fasihi Simulizi	15	
E	Ushairi	20	
	Jumla	100	

A: UFAHAMU (ALAMA 15)

Soma kifungu hiki kisha ujibu maswali

Mnamo mwaka wa 2004, mwanahistoria Bethuel Allan Ogot alidai kwamba mfumo wetu wa elimu unafaa kulaumiwa kwa kuchangia hali ya sasa ya kuzorota kwa maadili ya jamii nchini Kenya.

Akiwasilisha maoni yake kwa Kamati ya Kitaalamu ya Utamaduni katika Kongamano la Marekebisho ya katiba katika ukumbi wa Bomas of Kenya, Nairobi, Prof. Ogot alisema, silabasi katika viwango vyote vya elimu 'imefurika' mambo ya kigeni ambayo huwatenga wanafunzi na utamaduni wa mwafrika.

Prof Ogot alilalamika kwamba mfumo wa elimu wa 8-4-4 uliookopwa kutoka jimbo la Alberta, Canada haukutilia maanani masuala ya utamaduni wa mwafrika. Alitoa wito wa kuchunguzwa upya vitabu vinavyotumiwa kufundishia nchini Kenya ili kuona ni vipi vinaakisi tajriba za bara la Afrika na kupendekeza vitumiwe katika kufundishia. Aliongeza kwamba kwa miaka mingi, vyuo vyetu vikuu vimekuwa 'vikipika na kupakua' wahitimu ambao hawana miizizi chambilecho taban Lo Liyong.

Alipendekeza kuwa kulikuwapo dharura ya kuandikwa kwa katiba iliyotetea utamaduni wa mwafrika. "Katiba mpya itakuwa chapwa iwapo itashindwa kuakisi utamaduni unaothaminiwa katika jamii zetu." Akasema Ogot. Mtazamo wa Prof Ogot umenichochea kutathmini suala la elimu na utamaduni nchini Kenya.

Je , madai ya msomi huyu yana mashiko? Ikiwa jibu ni ndio, tuchukue hatua z(i)pi 'kuwakinga' vijana wetu dhidi ya uigizaji kinyani wa tamaduni 'mbovu' za kigeni?
Fasili ya kimsingi ya utamaduni wa jamii ya watu ni siasa za watu hao (mfumo wa utawala), maisha ya kijamii (imani, mbeko yao, dini yao, ushirikina wao, elimu yao, mavazi yao, kucheka na kulia kwao, maombolezi yao, chakula chao,n.k); na uchumi wa jamii hiyo (kilimo, ufugaji, uvuvi, biashara n.k) Aidha, hakuna utamaduni 'ulio bora' kuliko mwingine.

Utamaduni vile vile huathiriwa na mazingira na hubadilika kadri ya mpito wa wakati. Ni kweli pia kwamba tamaduni huathiriana jamii mbili zinapotagusana. Aidha, enzi hii ya utandawazi imekwisha kufuta mipaka ya kijiografia na kuufanya ulimwengu kuwa kijiji – hivi kwamba, tukio moja katika eneo Fulani ulimwenguni huathiri maeneno mengine kwa njia moja au nyingine. Kwa mfano, tunaweza kufuatilia siasa za uchaguzi mkuu wa Marekani tukiwa katika nyumba zetu kwa sababu ya hatua kubwa zilizopigwa katika sayansi na teknolojia.

Ninaikubali kauli ya Prof Ogot kwamba Afrika inaiga mno kutoka ugenini kuliko jinsi mataifa ya magharibi yanavyoiga kutoka kwetu. Mpaka sasa, bara la Afrika limekuwa ni jaa la kupokea kila kitu – vikiwemo viberiti, vichokonoameno, sindano na hata nyembe kutoka Uchina. Silabasi na mitaala ya mifumo yetu ya elimu inapaswa kufumbata kwa uketo masuala ya utamaduni ili watoto wetu wahamasishwe kwamba mumo kwa mumo katika utamaduni wa mwafrika mna mambo mengi mazuri yanayopaswa kuonewa fahari.

Suala la lugha za asili ambazo husheheni utamaduni linapaswa kupewa kipaumbele. Watoto wetu wanapaswa kubwishswa ukweli kwamba usemaji wa lugha za kigeni kwa mfano Kijerumani, Kiingereza, Kifaransa n.k kwa uhodari hakuoneshi ustaarabu wa aina yoyote kwa hakika. Haivunji mfupa kwa mtu kuwa mweledi wa kuzungumza Kiswahili, Kimaasai, Kiogiek, Ekegusii, Kiluhyia, Dholuo na ndimi nyingine za kiasili na wakati huohuo ukawa mweledi wa kuzungumza lugha za kigeni.

Aidha kuna haja ya kuimarisha utamaduni wa Mwafrika kupitia kwa nyenzo kama vile tamasha za miziki na nyimbo, mashindano ya michezo ya kuigiza, uandaaji wa filamu zinazosheheni na kufaharia Uafrika, uvaaji wa mavazi ya mitindo ya Kiafrika na uandishi wa fasihi inayofumbata tajriba za mwafrika.

Mwisho na muhimu zaidi ni kuimarisha elimu itakayowakomboa kimawazo watoto wetu na kwa wakati huohuo kuwawezesha kujihakiki na kuhakiki kasumba za kimagharibi ambazo zinashamiri kutwa kucha. Mtaala unaofanyiwa marekebisho vilevile unapaswa kuandaliwa kwa namna ambayo itaondolea mbali kabisa uakademia katika mfumo wetu wa elimu. Hivi sasa, kuna mlipuko wa ung'ang'aniaji wa shahada – ghafla bin vuu, kila mtu anakazana kupata shahada hata pale ambapo shahada yenyewe haitamwezesha kuwa na maarifa na ujuzi wa kuchangia kuleta mabadiliko katika jamii. Ilimradi kuna watu wanaoingia vyuoni kusoma ili wafe wakiwa na hizo shahada.

Mtazamo wangu ni kwamba, mfumo wetu wa elimu unapaswa kumwezesha au kumchochea kila mtu kugundua uwezo na vipawa vyake; na uchumi upanuliwe ili vipawa hivyo viweze kunadiwa na kuleta mapato. Je, si kinaya kwamba mwanamuziki na msanii William Ingosi(aliyeimba mwana wa Mberi) alifariki bila kunufaika kiasi cha haja kutokana na talanta yake?

<u>Maswali</u>

1. kwa nini lawama zinaelekezwa kwa mfumo wetu wa elimu kwa mujibu wa kifungu ulichosoma? (al. 1)

---

2. Ni vipi silabasi ya mfumo wa 8-4-4 ina upungufu? (ala. 2)

---

3. Kwa nini kulikuwa na dharura ya kuandikwa kwa katiba iliyotetea utamaduni wa Mwafrika? (al. 1)

---

4. Utamaduni wa jamii ya watu kimsingi unahusu nini hasa kulingana na kifungu? (al. 3)

---

5. Taja mambo mawili yanayoathiri utamaduni. (al. 2)

---

6. Eleza jinsi utandawazi umeufanya ulimwengu kuwa kijiji. (al. 2)

---

7. Silabasi na mitaala ya mifumo yetu ya elimu inapaswa kufanya nini? (al. 1)

---

8. Kuna umuhimu gani kuimarisha elimu nchini? (al. 1)

---

9. Eleza maana ya maneno haya kama yalivyotumika. (al. 2)

(i) Zinapotagusana

(ii) Kipaumbele

SEHEMU B: SARUFI NA MATUMIZI YA LUGHA (ALAMA 40)

1. Taja sifa bainifu za sauti /u/ (alama 2)

---

2. Bainisha aina za nomino katika sentensi.(alama 2)
   Ujinga wake ulimkoshesha maji safi.

---

3. Andika sentensi ifuatayo kwa ukubwa wingi. (ala. 2)
   Ngoma ikilia sana hupasuka.

---

4. Tunga sentensi zilizo na vivumishi vya pekee vyenye dhana zifuatazo. (alama 2)

(i) Kutobakisha

(ii) Umilikaji

---

5. Tofautisha sentensi zifuatazo (alama 2)

(i) Ningesoma kwa bidii ningefaulu.
(ii) Ningalisoma kwa bidii ningalifaulu.

---

6. Tunga sentensi mbili kuonyesha matumizi mawili ya kiakifishi. (alama 2)
   Nukta za dukuduku

---

7. Eleza maana ya: (alama 1)
Mofimu

---

8. Eleza matumizi ya kiambishi “ki” katika sentensi ifuatayo. (alama 3)
Ukiruka kipira hicho kitapotea.

---

9. Bainisha viwakilishi katika sentensi. (alama 2)
Sisi tutaimba wimbo mtamu.

---

10. Tunga sentensi ambayo ina kihusishi cha wakati. (alama 1)

---

11. Tambulisha aina za vitenzi kama vilivyotumika katika sentensi. (al. 3)
Kijana huyo aliweza kuinua mzigo huo na akaufikisha hotelini.

---

12. Nyambua vitenzi vifuatavyo kulingana na maagizo.

kutenda	kutendewa	kutendesha
kimbia		
chota		

13. Andika katika usemi wa taarifa
“Mtaweza kumsaidia mvulana huyu kesho?” Mzazi akauliza. (alama 3)

---

14. Ainisha fungutenzi ifuatayo kwa kuonyesha viambishi awali na tamati. (alama 2)
Anamchezea

---

15. Andika katika wingi karibu.
Cheo kicho hicho ndicho alichopewa. (al. 2)

---

16. Yakinisha. (alama 1)
Hatujamkumbusha kurejesha vitabu.

---

17. Andika kwa hali ya “a” (alama 1)
Anasoma vizuri

---

18. Taja miundo miwili ya ngeli ya U – YA (alama 2)

19.Nomino zifuatazo zimo katika ngeli gani? (alama 2)

(i) Furaha

(ii) Nyasi

---

20. Andika kwa kutumia ‘o’ rejeshi tamati. (alama 2)
Mtoto ambaye hutii walimu hufaulu.

---

21. Tunga sentensi sahihi ili kubainisha maana ya vitate. (alama 2)

(i) Posa

(ii) Poza

SEHEMU C: ISIMUJAMII (ALAMA 10)

Soma kifungu kifuatacho kisha ujibu maswali

Okoa mapesa. Usihadaike na miigizo, LNST ndiyo tu bidhaa ya kipekee inayoweza kuponya zaidi ya magonjwa hamsini kwa mpigo mmoja.

1(i) Tambua sajili hii. (ala. 2)

(ii) Eleza kwa tafsiri sifa zozote nane za sajili hii. (alama 4)

---

2. Taja sifa zozote nne za sajili ya hospitali. (alama 4)

SEHEMU YA D: FASIHI SIMULIZI (ALAMA 15)

1(i) Eleza maana ya maigizo. (alama 2)

(ii) Taja sifa zozote tano za maigizo. (alama 5)

---

2. Eleza maana ya aina zifuatazo za nyimbo. (alama 2)

(i) Kimai

(ii) Wawe

3.Utanzu wa hadithi una vipera mbalimbali. Fafanua vipera vifuatavyo.

(i) Ngano za mazimwi

(ii) Ngano za mtanziko.

---

4. Taja sifa zozote nne za methali. (al. 4)

SEHEMU YA E: USHAIRI (ALAMA 15)

Soma shairi lifuatalo kisha ujibu maswali

Mwanangu, wenye dhambi vishawishi, vikejeli
Mwanangu, katu wasikushawishi, bilikuli
Mwanangu, aushi nawe uishi, kama mwali
Mwanangu sikubali!

Mwanangu, sherati sikuperembe, kakubali
Mwanangu, usiwache wakubembe, kwa Sali
Mwanangu, mithiliyo mapembe, ya fahali
Mwanangu sikubali!

Mwanangu, wajeuri siwe nao, ni shubili
Mwanangu, usifwate njia zao, pita mbali
Mwanangu,ujeuri sera yao, mazohali
Mwanangi sikubali!

Mwanangu, waongo usiwasifu, kulihali
Mwanangu, uongo ubainifu, si amali
Mwanangu, ndimi zao hazikufu, si manzili
Mwanangu sikubali!

Mwanangu, wafisadi siwe nao, kemikali
Mwanangu, tama ndo utu wao, si Injili
Mwanangu, wahepe kila uchao, kiakili
Mwanangu sikubali!

Mwanangu, wote waliowabaya, wanadhili
Mwanangu, usije ukawapeya, ikibali
Mwanangu, katika hino duniya, kaa mbali
Mwanangu sikubali!.

Maswali
1. Taja anwani mwafaka ya shairi hili. (alama 2)

---

2. Thibitisha kuwa ushairi huu ni wa arudhi. (alama 3)

---

3. Eleza vina katika ubeti wa pili. (ala. 3)

---

4. Onyesha aina tatu za idhini/uhuru wa mshairi katika shairi hili. (alama 3)

---

5. Taja nafsinenewa katika shairi hili. (alama 2)

---

6. Eleza muundo wa shairi hili. (alama 4)

---

7. Taja tamathali moja ya usemi iliyotumika na utoe mfano mmoja. (alama 1)

---

8. Eleza maana ya maneno haya kama yalivyotumika katika ushairi. (alama 2)

(i) Akawapeya

(ii) Sali

NAME ……..…… ADM NO……...… DATE ……..……

SCHOOL……..…… SIGNATURE ……..…….

121

MATHEMATICS

FORM 2

APRIL 2022

TIME: 2 ½ HOURS

END OF YEAR EXAMINATION

Kenya Certificate of Secondary Education 2022

INSTRUCTIONS TO CANDIDATES

1. *Write your name and index number in the spaces provided at the top of this page.*
2. *This paper consists of two sections:* ***Section I and Section II.***
3. *Answer* ***all*** *questions in* ***section I*** *and* ***Section II.***
4. *Show all the steps in your calculations, giving your answers at each stage in the spaces below each question.*
5. *Marks may be given for correct working even if the answer is wrong.*
6. *Non- programmable silent electronic calculators* ***and KNEC*** *Mathematical tables may be used.*

For Examiner's Use Only

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

17	18	18	20	21	Total

Grand Total

SECTION I (50 MARKS)

Answer all the questions in the spaces provided.

1. Use logarithms tables only to evaluate

$$\sqrt[3]{\frac{36.72 \times (0.46)^2}{185.4}}$$

to 4 decimal places. Leave your answer in standard form. (4 marks)

2. A perpendicular line is drawn from a point P (3,5) to the line $x + 2y = 3$. Find the equation of the perpendicular. (3 marks)

3. Simplify the expression $\frac{12x^2 + ax - 6a^2}{9x^2 - 4a^2}$. (3 marks)

4. On a map whose scale is $1:400\,000$, an estate is represented by area of $6.3\ cm^2$. Calculate the area of the estate in hectares. (3 marks)

5. The sum of two numbers is 15. The difference between five times the first number and three times the second number is 19. Find the two numbers. (3 marks)

6. A Kenyan businessman bought goods from Japan worth 2950 000 Japanese Yen. On arrival in Kenya, custom duty of 20% was charged on the value of the goods. How much duty was paid in Kshs?

   1 US dollar = 118 Japanese Yen
   1 US dollar = 76 Kenya shillings (3 marks)

7. Given that $\boldsymbol{R} = 2\boldsymbol{a} - 3\boldsymbol{b}$ where $\boldsymbol{a} = \begin{pmatrix}\mathbf{5}\\\mathbf{2}\end{pmatrix}$ **and** $\boldsymbol{b} = \begin{pmatrix}\mathbf{1}\\\mathbf{3}\end{pmatrix}$**.**

a) Find vector R. (2 marks)

b) Find $\boldsymbol{R'}$ the image of R under a translation vector $\begin{pmatrix}2\\-3\end{pmatrix}$ (1 mark)

8. Simplify without using tables giving your answer in index form. (3 marks)

$$\frac{5^{-\frac{1}{2}} \times 5^{\frac{1}{2}} \times 4^{\frac{1}{2}}}{64^{\frac{1}{2}} \times 3^{0} \times 5^{2}}$$

9. Using ruler and pair of compass only, construct parallelogram PQRS $PQ = 4, QR = 6$, and $\angle QRS = 150°$ (3 marks)

10. A regular polygon is such that its exterior angle is one eight the size of interior angle. Find the number of sides of the polygon. (3 marks)

11. Use reciprocal, squares and square root tables only to evaluate the expression; (3 marks)

$$\frac{3}{\sqrt{0.003449}} - 18.79^2$$

12. Find the integral values that satisfy the inequality. (3 marks) $2x+3 \geq 5x-3 > -8$

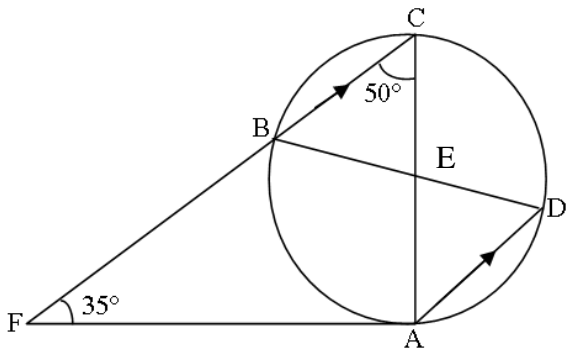
13. Twenty people working $7\frac{1}{2}$ hours a day can finish a piece of work in 21 days. Find how many hours a day must 45 people work to finish the work in 7 days. (3 marks)

14. A building site was surveyed and measurement recorded in the field book in metres as follows.

	F	
	300	
50 to E	200	
	160	120 to D
70 to C	100	
	60	60 to B
	A	

Draw the map of the building. (4 marks)

15. In the figure below, if $\angle ACB = 50°, \angle BAC = 45°, \angle AFB = 35°$ and FC is parallel to AD.



Calculate:

a) $\angle ABF$. (2 marks)

b) $\angle AEB$ (1 mark)

16. Solve for x in $\sin(x-15)^\circ - \cos(x+5)^\circ = 0$ (3 marks)

SECTION II (50 MARKS)

Answer all questions in thios section

17. Two towns P and Q are 550 km apart. A bus starts from town Q towards town P at 8:45 a.m. and at an average speed of 80 km/h. A car starts from P towards Q at 10:00 a.m at an average speed of 100 km/h. Calculate:

    a) The distance covered by the bus before the car starts the journey. (2 marks)

    b) How far from Q the two vehicles meet. (3 marks)

    c) The time the two vehicles met. (2 marks)

    d) The time the car arrived at town Q. (3 marks)

18. The lengths of a sample of 50 flower stalks were measured at a horticultural centre and recorded in the table below

Length in cm	8-10	11-13	14-16	17-19	20-22	23-25
Number of flower stalks	4	7	11	15	8	5

a) State the modal class (1 mark)

b) State the median class. (1 mark)

c) Calculate

i. The mean length (4 marks)

ii. The median length (4 marks)

19. Town B is 20 km N60°W from village A. town B is 25 km 040° from town C. Village D is due east of town C and due south of village A.

a) Using a scale 1: 500 000 draw a diagram showing relative position of town B, town C, village A and village D. (3 marks)

b) Determine;

i. Distance between village A and town C. (1 mark)

ii. Distance between town C and village D. (1 mark)

iii. Compass bearing of town C from village A. (1 mark)

iv. Compass bearing of village D from town B. (1 mark)

c) Determine the area enclose by the diagram in (a) above in hectares. (3 marks)

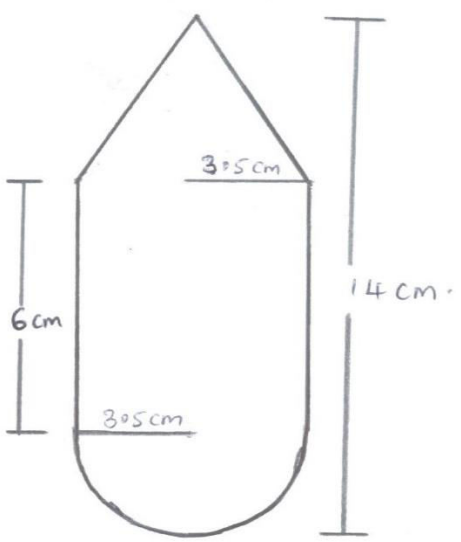
20. A rectangular tank whose internal dimensions are 1.7 m by 1.4 m by 2.2 m is three quarters full of milk.

a) Calculate the volume of milk in the tank in cubic metres. (3 marks)

b) The milk is to be packed in small packets. Each packet is in the shape of a right pyramid on an equilateral triangular base of sides 16 cm. The height of each packet is 13.6 cm. Calculate the volume of milk in cubic centimetres contained in each packet. (4 marks)

c) Full packets obtained are sold at sh. 25 per packet. Calculate the exact amount of money that will be realized from the sale of all the packets of milk. (3 marks)

21. The figure below is a model representing a storage container. The model whose height is 14 *cm* is made up of a conical top, a hemispherical bottom and the middle part is cylindrical. The radius of the hemisphere and the conical part are each 3.5 cm and the height of the cylinder is 6 cm.



a) Calculate the volume of the model. (5 marks)

b) Calculate its surface area. (5 marks)

FORM II

PHYSICS EXAMINATION

Students Name: …… Adm. No……. Class: ……

Date:…..……. Time **2 hrs.**

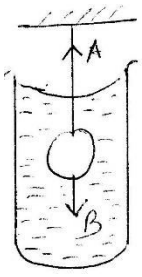
INSTRUCTIONS TO CANDIDATES

i) Write your name and admission number.
ii) Answer all the questions in the spaces provided after every question.
iii) All working for numerical questions must be clearly shown.

SECTION A (50MKS)

1. During a physics lesson, form 1 students measured their teachers shadow and the length obtained was 120cm. The actual height of the teacher is 180cm. Estimate the height of a tree whose shadow has a length of 720cm at the same time. (3mks)

2. The diagram below shows a body immersed in water tied on a string.



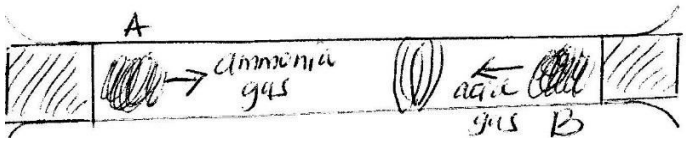
i) Name forces labeled A and B. (2mks)

ii) Name one other force acting on the body and not indicated in the diagram (1mks)

3. State one advantage of fitting wide tyre on a vehicle that moves on earth roads. (1mk)

4. a) Define Diffusion. (1mk)

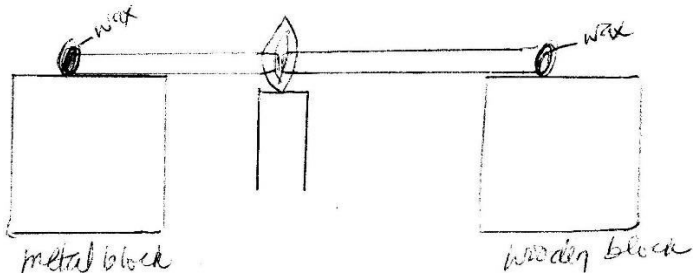
b) In the figure below, ammonia gas and an acid gas diffuse and react to form a white deposit on the walls of the glass tube. The deposit forms nearer end B.



i) Which gas diffuses faster? (1mk)

ii) Give a reason for your answer in (i) above. (1mk)

5. Two identical Aluminum rods are shown in the figure below. One rest on metal block and the other on a wooden block. The protruding ends are heated on a Bunsen burner as shown.



State with a reason on which bar the wax is likely to melt sooner. (2 mks)

6. a) State three properties of a good thermometric liquid. (3 mks)

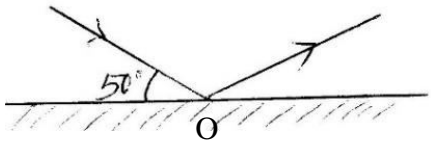
b) Explain why clinical thermometer should never be sterilized by putting them in boiling water. (1mk)

c) Water boils at $100^{o}C$. What is this temperature in Kelvin scale? (1mk)

7. a) Define the following terms in respect of reflection of light.
   i) Angle of incidence (1mk)

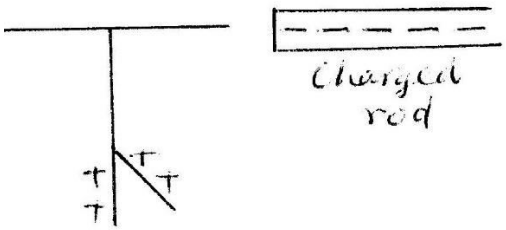
   ii) Angle of reflection.

b) The figure below shows a ray of light incident on a plane mirror at point O.



The mirror is rotated through an angle of 40^{o} maintaining the incident ray. Determine the angle through which the reflected ray is rotated. (2mks)

8. The figure below shows a negatively charged rod brought slowing near the cap of a positively charged leaf electroscope.



i) State what was observed (1mk)

ii) Explain your observation. (2mks)

b) Explain why fuel tankers are fitted with loose chains hanging under them near the ground. (1mk)

9. a) A charge of 240C flows through a bulb in 4 minutes. Calculate the amount of current flowing through the bulb. (3mks)

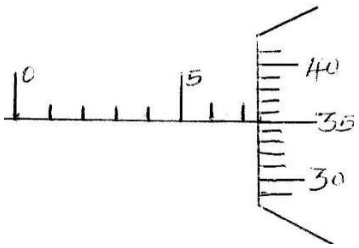
b) State 2 advantages of an alkaline battery over a lead acid battery. (2mks)

10. a) State Hooke's law

b) State the SI unit of spring constant. (1mk)

c) An object of weight 40N attached at the end of a spring causes an extension of 0.5cm on the spring. Determine the spring constant. (3mks)

11. a) The following micrometer screw gauge was used to measure the thickness/diameter of a pendulum bob. What is the reading? (2mks)



b) In an experiment to estimate the size of a molecule of olive oil, a drop of oil has a volume of $0.15mm^3$ was placed on a clean water surface. The oil spread into a patch of area $7.5 \times 10^4\ mm^2$, Estimate the size of the molecule. (3mks)

12. a) State Bernoulli's principle (1mk)

b) Doors that normally open inward usually close when it's windy. Explain. (1mk)

c) Water flows through a pipe of varying cross section area. One end of the pipe is $5cm^2$ and water flows at that point at a velocity of 0,3 m/s. Determine the cross-sectional area of the other end if water flows at that end at 0.1 m/s. (3mks)

13. Define the following terms giving an example of each.

a) Vector quantity (2mks)

b) Scalar quantity (2mks)

14. Explain why two thin blanket are warmer than a single thick one. (1mk)

SECTION B (50MKS)

15. A rectangular block of wood 4 cm x 3cm x 2cm of mass 4.6g. Calculate

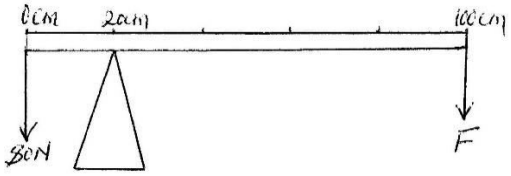
a) Its density in kg/m^3. (2mks)

b) Determine the weight of the block (2mks)

c) Determine the greatest pressure (3mks)

16. a) State the principal of moments. (1mk)

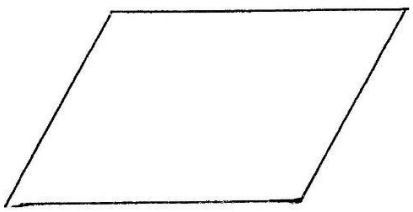
b) i) A uniform metre rule of mass 1kg is balanced at 20 cm mark by force of 80 N and F(N) acting at 0cm and 100cm marks respectively as shown in the diagram below. (3mks)



Calculate F.

ii) Define center of gravity of a body. (1mk)

iii) The figure below shows a uniform cardboard in the shape of a parallelogram. (1mk)



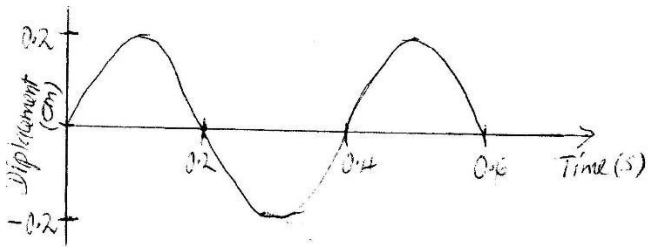
Locate the Centre of gravity of the cardboard.

c) State the reason why a steel sphere resting on a horizontal surface is said to be in neutral equilibrium. (1mk)

17. a) i) Distinguish between transverse and longitudinal waves. (1mk)

ii) Give one example of a transverse wave end one example of longitudinal wave. (2mks)

b) The figure shows the displacement time graph of a wave travelling at 200 cm/s.



Determine;

i) Amplitude (1mk)

ii) Period (1mk)

iii) Frequency (2mks)

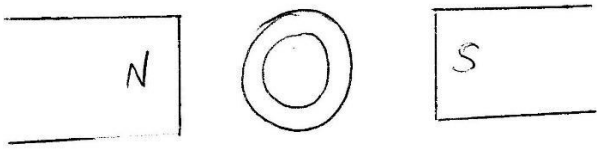
iv) Wavelength (2mks)

c) i) State two factors that affects speed of sound in a solid. (2 marks)

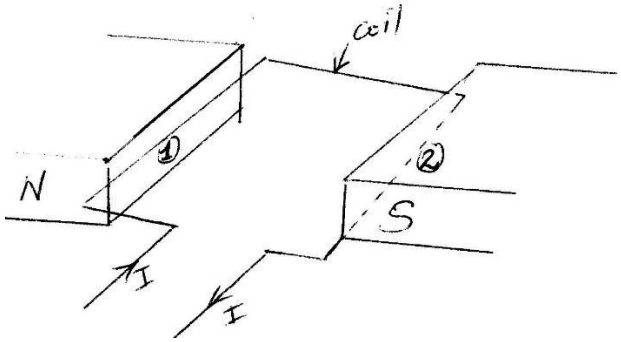
ii) A soldier standing some distance from a wall, blows a whistle and hears its echo 1.8 seconds later. How far is the wall from the soldier (speed of sound in air is 3.30 m/s. (3mks)

18. a) State the basic law of magnetism. (1mk)

b) The figure below shows a soft iron ring placed between the poles of a magnet. On the same diagram sketch the magnetic field pattern. (1mk)



c) The diagram below shows a current carrying coil in a magnetic field.



i) Identify the rule used. (1mk)

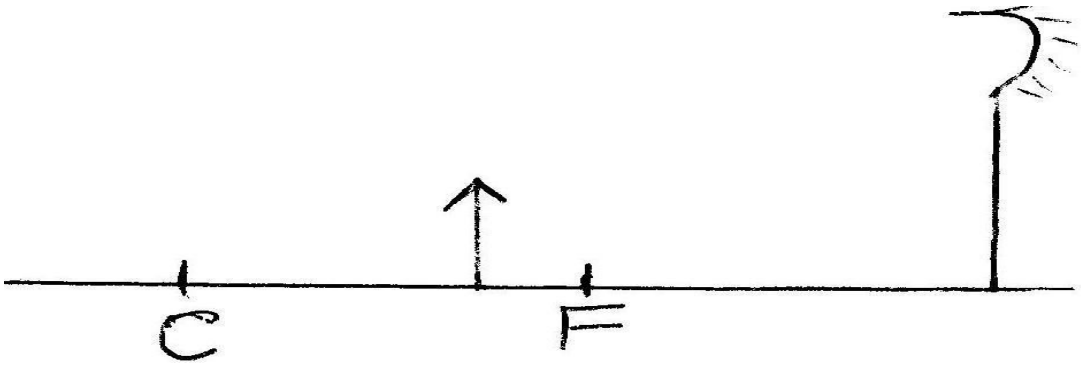
ii) Mark in the diagram the direction of the force acting on the sides of the coil labeled 1 and 2 (2mks)

iii) State two ways of increasing the force on the coil.

d) State three methods of making a magnet to lose its magnetism. (3mks)

19. a) What is Centre of curvature as used to describe mirrors. (1mk)

b) An object m is placed between F and C of a concave mirror as shown in the diagram.



i) Complete the diagram to show the image formed. (2mks)

ii) State two characteristics of the image formed

c) State two differences between image formed by plane mirror and that formed by concave mirror. (2mks)

d) State one application of each of the following. (2mks)

i) Convex mirror

ii) Parabolic mirror

e) A small object is placed 15cm in front of a convex mirror whose focal length is 10cm. Determine the position of the image. (3mks)