NAME_____**CLASS**_____

ADM NO _____**DATE** _____

MURANG'A EXTRA COUNTY JOINT EXAMINATION

GEOGRAPHY 312/1

APRIL/ MAY 2023

FORM 4

TIME: 2HRS 45MINS

INSTRUCTIONS TO CANDIDATES

a) **This paper has two sections: A and B**
b) **Answer all the questions in section A**
c) **Answer question 6 and any other two questions from section B**
d) **This paper consists of 6 printed pages. Ensure ALL the 10 questions are printed.**

For examiners use only

	SCORE
SECTION A	
QUESTION 6	
QUESTION 7	
QUESTION 8	
QUESTION 9	
QUESTION 10	
TOTAL MARKS	

SECTION A.

1. a) Define the following terms.

   i) Geography (1mk)

   ii) Habitat (1mk)

   b) Give **three** branches of geography. (3mks)

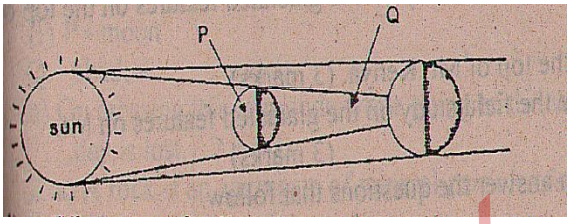
2. a) Name **two** elements of weather that can be recorded at a school station. (2mks)

   b) Give **three** reasons why the recording of data at a school station may be inaccurate. (3mks)

3. a) What is a hydrological cycle (2mks)

   b) State **three** factors that influence the amount of surface run-off. (3mks)

4. Use the diagram below to answer questions that follow.

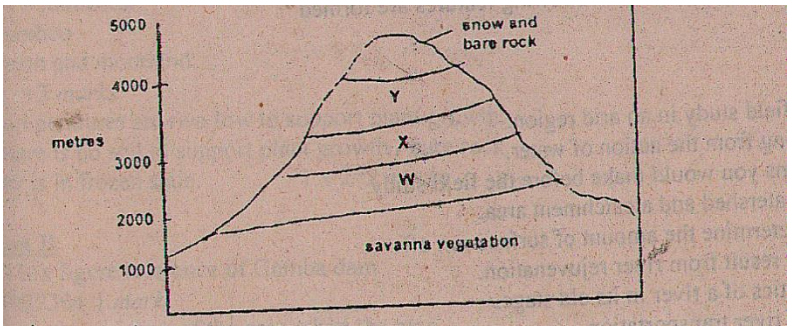


   i) What type of eclipse is represented by the diagram? (1mk)

   ii) Name the parts marked P and Q (2mks

   iii) what is the effect of the international date line on crossing the line? (2mks)

5. The diagram represents zones of natural vegetation on a mountain in Africa. Use it to answer Question (a)



a) Name the vegetation zones marked W, X, & Y.

b) Give ***two*** reasons why mountains tops have no vegetation

SECTION B:ANSWER QUESTION SIX AND ANY OTHER TWO QUESTIONS .(75MKS)

6. Study the map of Kisumu East 1:50,000 (sheet 116/2) provided and answer the following questions.

a) i) Give the ***four*** figure grid reference of Obwolo school. (1mk)

ii) What is the approximate height of point 000960? (1mk)

iii) Name ***two*** physical features found at grid square 0384. (2mks)

iv) Name ***two*** types of natural vegetation in the area covered by the map (2mks

b) Calculate the area of the Kisumu municipality. Give your answer in square kilometers (km^2) (2mks)

c) Measure the length of the all-weather road(bound surface) from the junction at grid reference 974911 to the edge of the map, grid reference 950968 (2mks)

d) Citing evidence, give three social functions of Kisumu town. (6mks)

e) i) Using a scale of 1cm to represent 200 metres, draw a cross-section from grid reference 970980 to 030989. (4mks)

ii) On it mark and name the following

- Steep slope (1mk)
- Motor able road (1mk)
- Nyangori river (1mk)

iii) Calculate the vertical exaggeration. (2mks)

7. a) i) Define the term folding (2mk)

ii) State ***three*** factors that influence folding. (3mks)

b)i)Briefly describe the continental drift theory. (5mks)

ii) State **2** evidences supporting the above theory of continental drift. (2mks)

c)i) Using a well labelled diagram, explain how conventional currents theory may lead to formation of Fold Mountains. (6mks)

ii) Highlight the signifance of Fold Mountains to human activities. (5mks)

iii) Give ***two*** theories that explain the formation of Fold Mountains apart from convectional currents theory. (2mks)

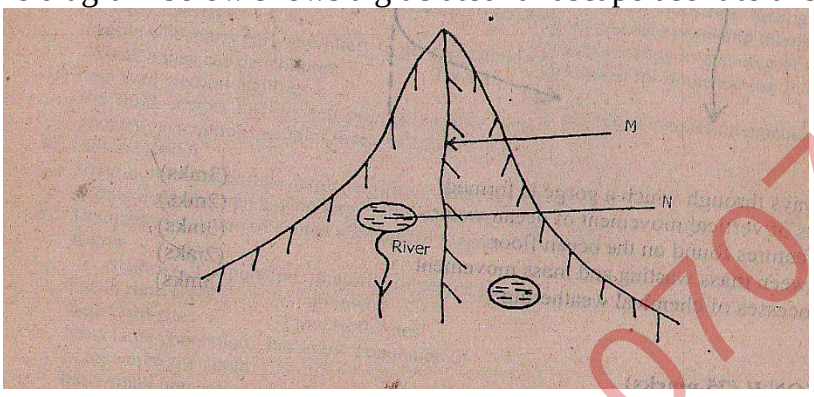
8. a) Define the following terms

i)Glaciation (1mk)

ii) Ice-berg (1mk)

b) Give ***two*** reasons why there are no ice sheets in Kenya (2mks)

c) The diagram below shows a glaciated landscape use it to answer questions that follow.



i) Identify the feature labelled **M** and **N** (2mks)

ii) Name ***two*** process through which **N** is formed. (2mks)

iii) Describe how feature marked **N** is formed. (5mks)

d) i) Name ***two*** types of moraines. (3mks)

ii) Explain ***two*** factors that determine the speed of ice movement. (4mks)

e) Students from a school near Mt. Kenya were planning to carry out afield study of the glaciated features on top of the mountain.

i) State ***two*** reasons why they needed a route map. (2mks)

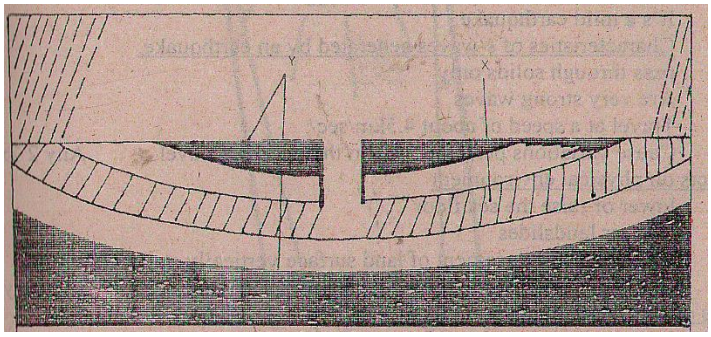
ii) Give three challenges they would likely face during their field study. (3mks)

9. a)i) Define the term underground water. (1mk)

ii) Give ***three*** sources of underground water. (3mks)

iii) Explain ***3*** factors that influence the occurrence of underground water. (6mks)

b) The diagram below shows an artesian well.



i) Name the parts marked X and Y. (2mks)

ii) State ***four*** conditions necessary for the formation of artesian wells. (4mks)

iii) Explain ***two*** significance of underground water to human activities. (4mks)

c) You intend to carry out a field study in a Karst landscape.

i) Give ***two*** reasons why it is necessary to carry out a pre-visit before the study. (2mks)

ii) Give ***three*** follow –up activities that you were engaged in after the actual study.(3mks)

10. a) i) Name ***three*** factors that influence the formation of soil. (3mks)

ii)Name three processes of soil formation. (3mks)

b) Apart from texture, name other properties of soil. (3mks)

c) i) What is soil degeneration? (2mks)

ii) Explain ***three*** ways in which farming practices may lead to loss of soil fertility.(6mks)

iii) State how soil acidity is reduced. (2mks)

d) i) Draw a simple – labelled diagram of profile of a mature soil. (4mks)

ii) Distinguish between soil profile and soil catena. (2mks)