

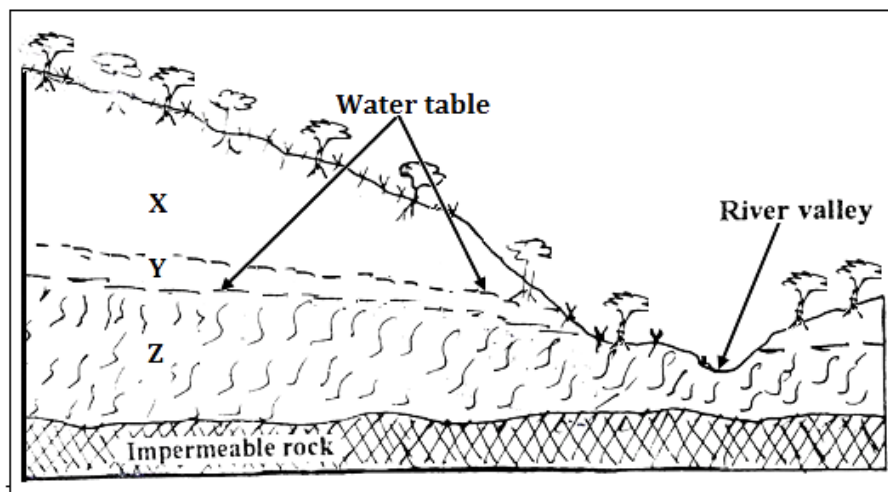
INSTRUCTIONS TO CANDIDATES

- This paper has **two** sections: **A** and **B**
- Answer **ALL** the questions in **section A**.
- In section **B**, answer **questions 6** and any other **TWO** questions.
- All the answers must be written **in English** on the foolscaps provided.

SECTION A

(Answer all the questions from this section)

- Define the term mineral. (2 marks)
 - Give **three** examples of metamorphic rocks. (3 marks)
- Differentiate between rotation and revolution of the earth. (2 marks)
 - State **three** reasons why the interior of the earth is very hot. (3 marks)
- Name **two** areas in Kenya where heath and moorland vegetation is found. (2 marks)
 - State **three** characteristics of mangrove forests. (3 marks)
- The diagram below shows a vertical section through the zones of underground water.



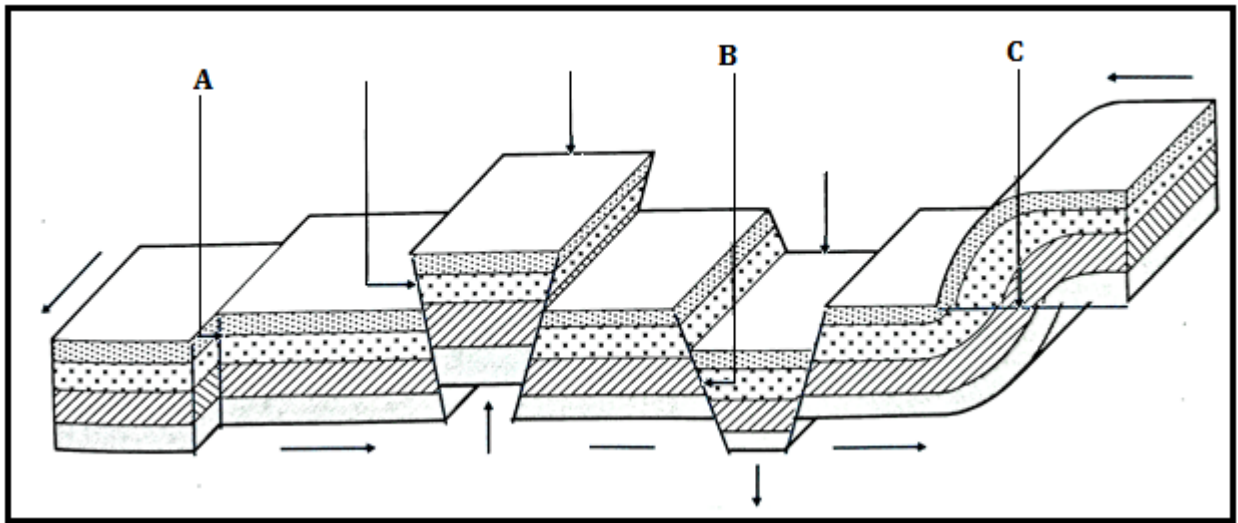
- Name the zones marked X, Y and Z (3 marks)
 - State three ideal conditions necessary for the formation of an artesian well. (3 marks)
- Outline **four** ways through which lakes in Kenya were formed. (4 marks)

SECTION B

(Answer question 6 and any other two questions from this section)

6. Study the map of Yimbo provided and use it to answer questions that follow.
- (a) (i) Give **two** methods used to present relief on the map extract. (2 mark)
- (ii) What is the latitudinal extent of the area covered by the map? (2mark)
- (iii) Determine the six figure grid reference of a waterhole North of Port Southby. (2 marks)
- (b) (i) Identify **four** types of natural vegetation in the area covered by the map. (4 marks)
- (ii) Citing evidence from the map, give **two** social services offered in the area covered by the map. (4 marks)
- (iii) Describe the relief of the area covered by the map (5 marks)
- (c) Draw a square 10 cm by 10 cm to represent the region west of easting 21 and North of Northing 90. On the square, mark and name:
- Lake Sare
 - A thicket
 - Busia District
 - All weather road loose surface. (6 marks)
7. (a) (i) Differentiate between weather and weather forecasting. (2 marks)
- (ii) Give **three** examples of low clouds. (3 marks)
- (b) Explain how the following factors affect the temperature of a place:
- (i) Cloud cover. (3 marks)
- (ii) Aspect. (3 marks)
- (c) With the aid of a well labelled diagram, describe how convectional rainfall is formed. (8 marks)
- (d) Suppose you were to carry out a field study at a weather station:
- (i) State **three** objectives that you would set for the study. (3 marks)
- (ii) Give **three** follow up activities for the field study. (3 marks)

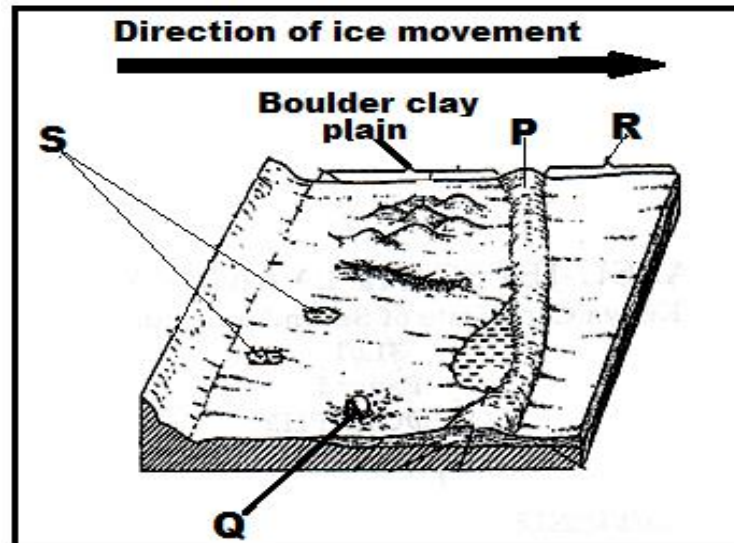
8. The diagram below represents types of faults and some fault features.



- (a) Name the type of faults marked A, B and C. (3 marks)
- (b) Explain how Isostatic adjustment causes earth movements (3 marks)
- (c) (i) Apart from rift valleys and fault blocks, list **three** other features formed due to faulting. (3 marks)
- (ii) Using well labelled diagrams, describe how a rift valley is formed due to compression forces. (8 marks)
- (d) Explain **four** ways through which features resulting from faulting affects human activities. (8 marks)

- 9.
- (a) Define the term desertification. (2marks)
 - (b) Explain **three** ways in which wind transports its load (6marks)
 - (c) With the aid of a well labeled diagram, describe how yardangs are formed. (7 marks)
 - (d) A group of form four students went out for a field study on action of water in an arid area.
 - (i) Name **three** erosional features that they are likely to have observed. (3 marks)
 - (ii) State **three** problems they have encountered during the field study. (3marks)
 - (iii) What activities would they recommend to the residents in the area as an effort to control desertification? (4 marks)

10. (a) List **three** types of glacier. (3marks)
- (b) Explain how glacier erodes through the following processes.
- (i) Plucking (3 marks)
- (ii) Abrasion (3 marks)
- (c) The diagram below shows some features formed due to glacial deposition in lowlands.



- (i) Name the parts marked P, Q, R and S. (4marks)
- (ii) Describe how a glacial trough is formed. (6marks)
- (d) Explain **three** negative effects of glaciated landscapes. (6 marks)