

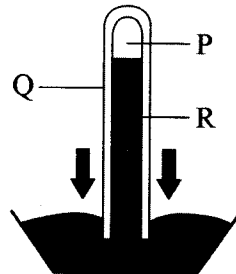
4.2 GEOGRAPHY (312)

4.2.1 Geography Paper 1 (312/1)

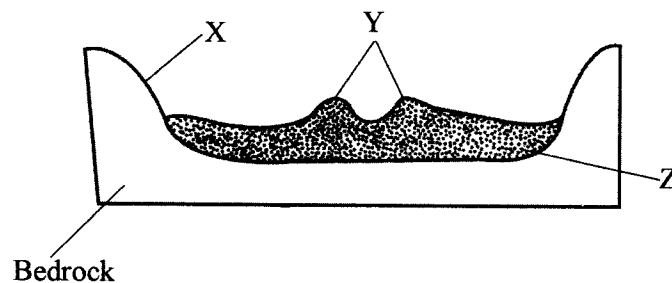
SECTION A

Answer all the questions in this section.

1. (a) Distinguish between Geography and Environment. (2 marks)
- (b) Identify the **two** branches of Geography. (2 marks)
2. (a) The diagram below represents an instrument for measuring atmospheric pressure.
Name the parts marked P, Q and R. (3 marks)



- (b) State **three** benefits of weather forecasting to human activities. (3 marks)
3. Give **four** proofs that support the theory of continental drift. (4 marks)
4. (a) Give **three** factors that influence the way a river transports its load. (3 marks)
- (b) The diagram below represents a cross-section of a flood plain. Name the features marked X, Y and Z. (3 marks)



5. (a) State the **two** causes of vertical movement of the ocean water. (2 marks)
- (b) List **three** types of ocean tides. (3 marks)

SECTION B

Answer question 6 and any other two questions from this section.

6. Study the map of Yimbo 1:50,000 (sheet 115/1) provided and answer the following questions.
- (a) (i) What is the magnetic variation of the map? (2 marks)
 - (ii) Identify **two** natural features found at the grid square 3597. (2 marks)
 - (iii) Identify the **two** countries represented in the area covered by the map. (2 marks)
 - (b) (i) Give the direction of the trigonometrical station at the grid square 2789 from the air photo principal point at Nyagoma Mission School. (2 marks)
 - (ii) Measure the length of the provincial boundary to the North West of the area covered by the map. Give your answer in kilometres. (2 marks)
 - (c) (i) Give evidence that show the area covered by the map receives low rainfall. (3 marks)
 - (ii) Explain how each of the following factors have influenced the distribution of settlements in the area covered by the map:
 - I. Transport (2 marks)
 - II. Vegetation (2 marks)
 - III. Relief (2 marks)
 - (d) Describe the drainage of the area covered by the map. (6 marks)
7. (a) Using examples from East Africa, describe each of the following types of volcanoes:
- (i) Active Volcano (3 marks)
 - (ii) Dormant Volcano (4 marks)
- (b) Using a well labelled diagram, explain how each of the following features were formed:
- (i) Composite Volcano (6 marks)
 - (ii) Volcanic plug (4 marks)
- (c) Explain **four** negative effects of vulcanicity (8 marks)

8. (a) (i) Apart from inter tropical convergence zone (ITCZ), list **four** physical factors that influence climate. (4 marks)
- (ii) Give **four** characteristics of inter tropical convergence zone (ITCZ). (4 marks)
- (b) (i) Name the **three** equatorial climatic regions of Kenya. (3 marks)
- (ii) Describe the tundra climate. (6 marks)
- (c) Explain **four** human causes of desertification. (8 marks)
9. (a) (i) Define an ocean. (2 marks)
- (ii) Explain the **three** causes of variation in the amount of salt in ocean water. (6 marks)
- (b) (i) Identify **three** processes involved in wave erosion. (3 marks)
- (ii) With the aid of well labelled diagrams, describe the processes through which a wave cut platform is formed. (8 marks)
- (c) You intend to carry out a field study on types of features resulting from wave deposition along the coast.
- (i) Identify **three** methods you would use to record data. (3 marks)
- (ii) Give **three** wave depositional features you are likely to observe during the field study. (3 marks)
10. (a) List **three** components of soil. (3 marks)
- (b) Explain each of the following in relation to the classification of soil:
- (i) Zonal (2 marks)
- (ii) Intrazonal (2 marks)
- (iii) Azonal (2 marks)
- (c) Explain **three** causes of soil degeneration. (6 marks)

- (d) Students from Mwema School visited a nearby ranch to study types of soil.
- (i) Explain why they carried the following tools:
- I. Hoes (2 marks)
 - II. Polythene bags (2 marks)
- (ii) Give **three** reasons why they would need to seek permission from relevant authorities. (3 marks)
- (iii) List **three** types of soil erosion they are likely to observe. (3 marks)