

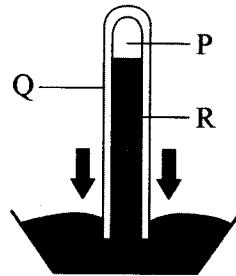
4.2 GEOGRAPHY (312)

4.2.1 Geography Paper 1 (312/1)

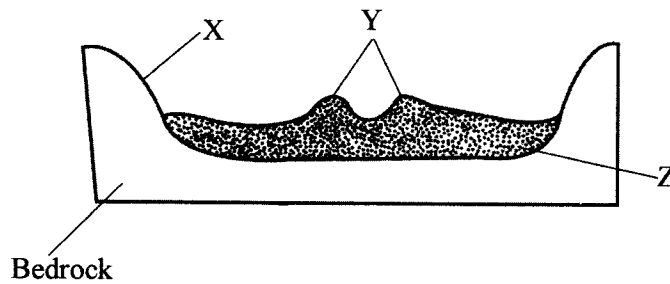
SECTION A

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)

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