

312/1  
GEOGRAPHY  
Paper 1  
Time: 2<sup>3</sup>/<sub>4</sub> hours

KAPSABET BOYS TRIAL EXAMINATIONS  
Kenya Certificate of Secondary Education  
312/1  
Paper 1  
GEOGRAPHY

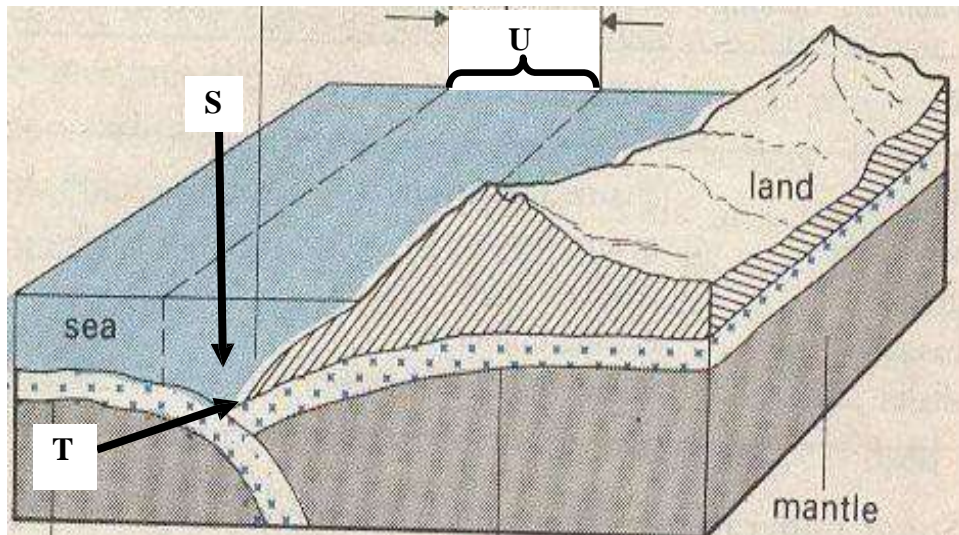
INSTRUCTIONS TO CANDIDATES

- *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 answers must be written in the answer sheets provided.*

SECTION A

*Answer all questions in this section*

1. (a) Name two layers of discontinuity in the earth's interior (2 marks)
- (b) State three characteristics of the outer core in the internal structure of the earth (3 marks)
2. (a) Name *two* types of earth movements. (2 marks)
- (b) The diagram below represents tectonic plate boundary.



- (i) Name the features marked S, T, and U. (3 marks)
3. (a) Differentiate between seismic focus and epicenter. (2 marks)
- (b) Name *two* types of surface longitudinal waves. (2 marks)
4. (a) Apart from exfoliation, name two other physical weathering processes influenced by temperature changes (2 marks)
- (b) Describe exfoliation process. (3 marks)
5. (a) Name *two* main sources of underground water. (2 marks)

(b) How is a limestone pillar formed?

(4 marks)

SECTION B:

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

6. Study the map of Yimbo 1:50,000(sheet 115/1) provided and answer the following questions.

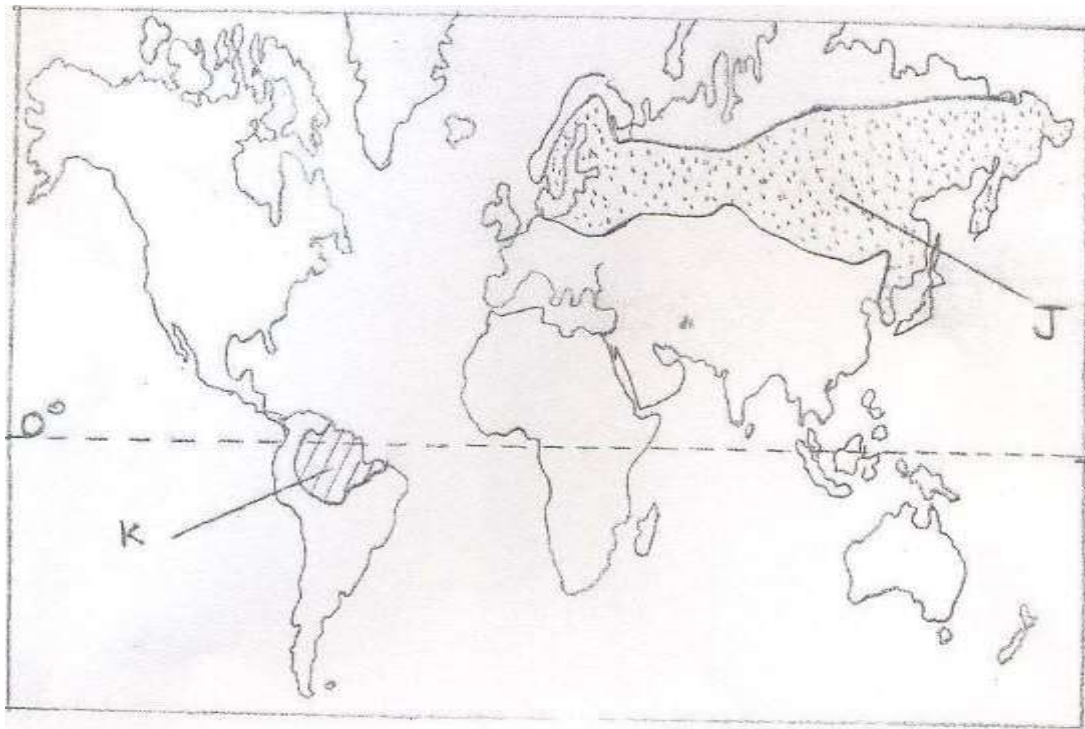
- (a). (i) Give the title and sheet number of the map extract. (2Marks)
- (ii) What is the six figure Grid Reference of the Trigonometrical Station at Abiero Hill on the South Eastern area of the map? (1Mark)
- (iii) Name the height of the highest point in the area covered by the map. (1Mark)
- (b) (i) Calculate the area of Yala swamp found to the north of Regional Boundary. Give your answer in Km<sup>2</sup>. (2Marks)
- (ii) Citing evidence from the map identify *two* economic activities carried out in the area. (2Marks)
- (c) (i) Using a vertical scale of 1cm represent 20 metres, draw a cross-section along Northing 80 from Easting 30 to Easting 39. (4Marks)
- (ii) On the cross-section, mark and name the following:  
. All weather road:- loose surface  
. Indefinite River  
. Motorable track (3Marks)
- (d) (i) Describe the distribution of natural vegetation in the area covered by the map. (4Marks)
- (ii) Explain *three* factors, which have influenced the distribution of Settlement in the area. (6Marks)
7. (a) (i) Name *two* forces that are responsible for the varied shapes of planet earth (2 marks)
- (ii) State *two* ways through which geographers gather information about the internal part of the earth (2 marks)

(iii) Describe the origin of the earth according to the Nebula Cloud Theory  
(5 marks)

(b) (i) Differentiate between Revolution and Rotation of the earth (2 marks)

- (ii) When it is noon in London ( $0^{\circ}$ ), what is the East African Standard time? (2 marks)
- (iii) Outline *three* effects of the rotation of the earth (3 marks)
  
- (c) (i) Apart from autumn name *three* other seasons that occur on the earth (3 marks)
  
- (ii) Describe *three* climatic conditions associated with autumnal season (6 marks)

8. Use the map below to answer questions a (i) and (ii).



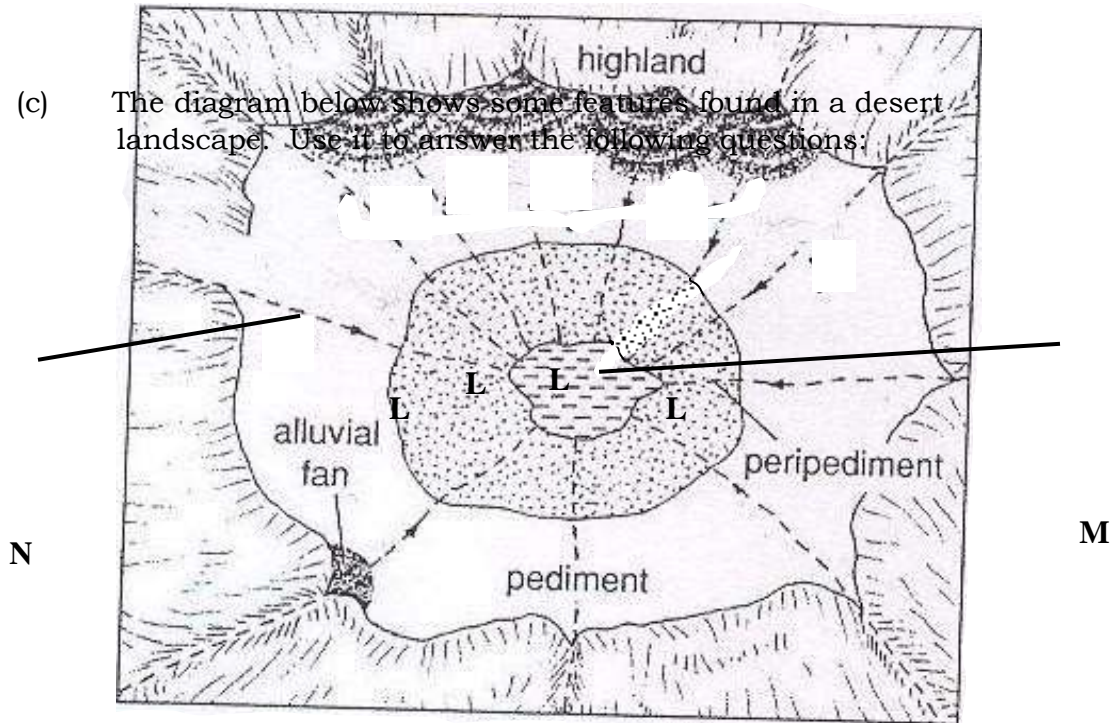
- (a) (i) Name *three* natural types of forests marked J and K. (2 marks)
- (ii) Explain how the vegetation marked J is adapted to the climatic conditions. (6 marks)
  
- (b) Explain how the following factors influence distribution of vegetation.

- (i) Soils (2 marks)
- (ii) Wind (2 marks)
- (iii) Slope (2 marks)

- (c) State *five* characteristics of tropical savanna grasslands. (5 marks)
  - (d) A group of geography students are planning to carry out a field study on vegetation in Nandi County.
    - (i) State *three* reasons why sampling would be appropriate for this study. (3 marks)
    - (ii) Apart from collecting samples, state *three* other primary methods they would use to collect data on vegetation while in the field. (3 marks)
- 9.
- (a) Name *two* types of glaciers which are found on mountains in East Africa. (2 marks)
  - (b) Explain how the following factors influence erosion by a glacier.
    - (i) Nature of the underlying rock. (2 marks)
    - (ii) Speed of the glacier. (2 marks)
    - (iii) Thickness and weight of ice. (2 marks)
  - (c) With the aid of labeled diagrams, describe how an arête is formed. (6 marks)
  - (d)
    - (i) Describe the process through which a Roche moutonnee is formed. (5 marks)
    - (ii) Explain the significance of glaciated features to human activities. (6 marks)
- 10.
- (a) Identify *three* processes of wind erosion in desert areas. (3 marks)
  - (b) Explain *three* factors Influencing wind deposition in arid areas. (6 marks)



(c) The diagram below shows some features found in a desert landscape. Use it to answer the following questions:



- (i) Identify the landscape shown in the diagram. (1 mark)
  - (ii) Name the features marked L, M and N. (3 marks)
  - (iii) Describe how feature marked L is formed. (4 marks)
- (d) Explain *four* negative effects of deserts to human activities (8 marks)

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