

312/1
GEOGRAPHY
Paper 1
Time: 2¾ hours

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

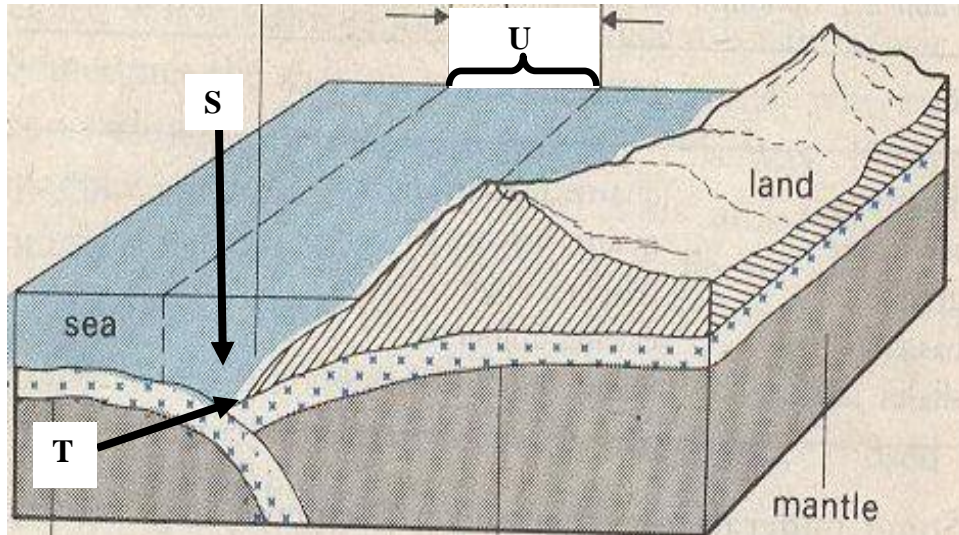
INSTRUCTIONS TO CANDIDATES

- *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)

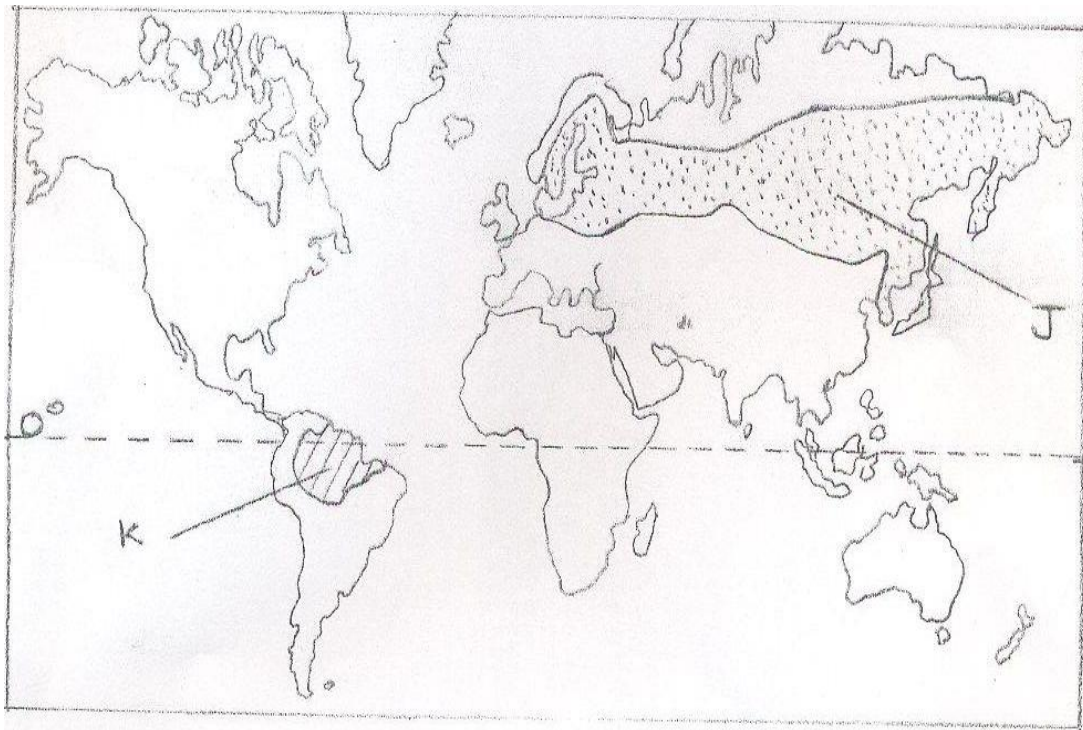
SECTION B:

*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 Km². (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°), 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)

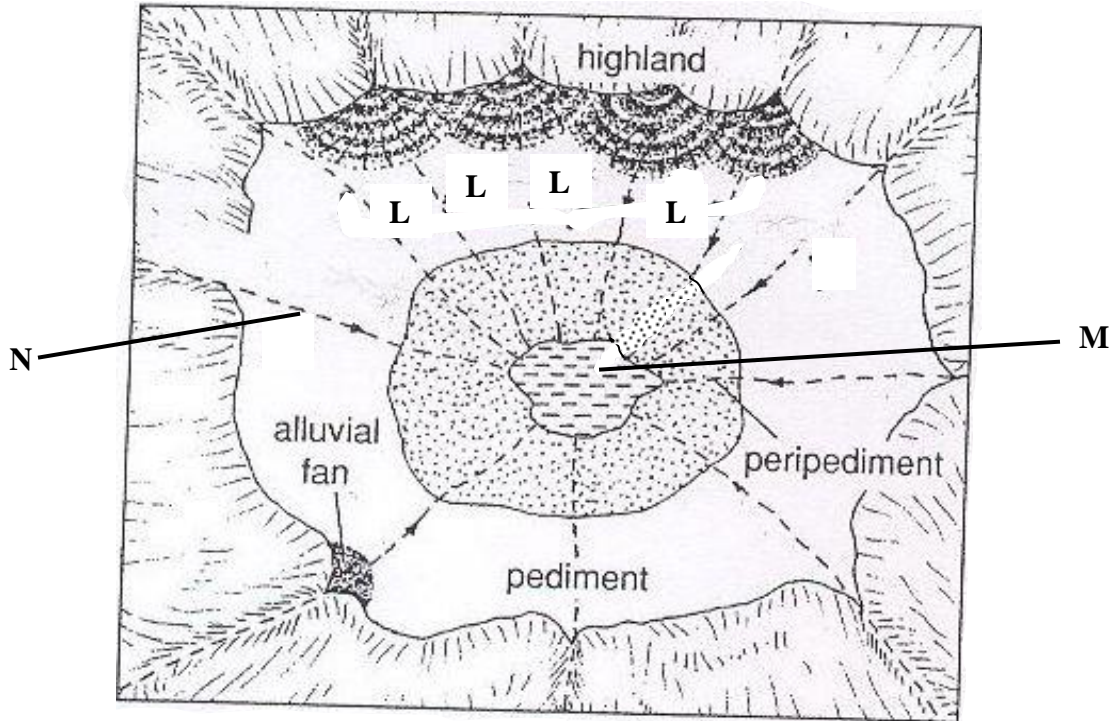
8. Use the map below to answer questions a (i) and (ii).



- (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 moutonnée 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)

