

312/1
GEOGRAPHY
Paper 1
June
2 ¾ Hours

BUNYORE – MARANDA JOINT EXAMINATIONS
Kenya Certificate of Secondary Education

GEOGRAPHY
Paper 1
2 ¾ Hours

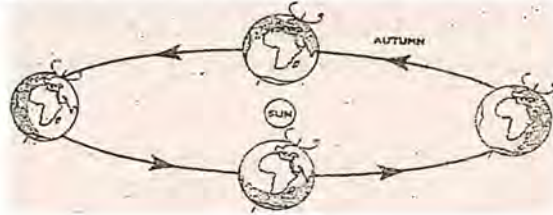
Instructions to candidates

- a) This paper has two sections: A and B
- b) Answer all the questions in section A
- c) Answer question 6 and any other two questions from section B
- d) All answers must be written in the answer booklet provided
- e) This paper consists of 5 printed pages
- f) Candidates should check the questions paper to ascertain that all the pages are printed as indicated and that no questions are missing
- g) Candidates should answer the questions in English

SECTION A

Answer ALL the questions in this section

- 1 (a) Name and describe two types of environment (2 marks)
- (b) The diagram below shows a movement of the earth



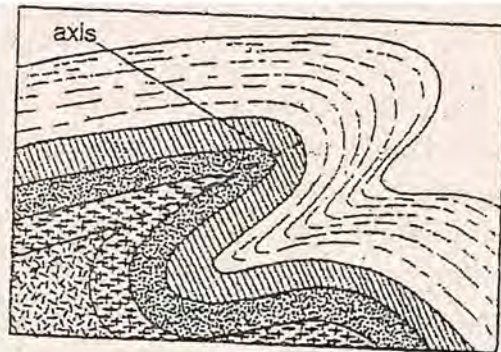
- (i) Identify the movement (1 mark)
- (ii) (1 mark)
- (iii) State two effects of the above movement (2 marks)
2. (a) State two effects of aridity and desertification (2 marks)
- (b) Give three indicators of climate change. (3 marks)
3. (a) (i) Define the term 'rock' (1 mark)
- (ii) Name two examples of hypabyssal rocks (2 marks)
- (b) State two characteristics of minerals (2 marks)
4. (a) Name two denudation processes (2 marks)
- (b) State three factors that influence movement of materials on slopes (2 marks)
5. (a) Give three components of soil (3 marks)
- (b) State two factors influencing development of soil catena (2 marks)

SECTION B

Answer question 6 and any other two questions from this section

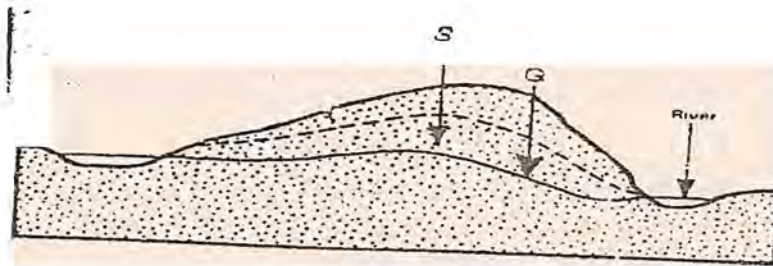
6. Study the map of Karatina 1:50,000 (sheet 121/3) provided and answer the following questions.
- (a) (i) What is the title of the map extract? (1 mark)
- (ii) Give the name of the map extract bordering Karatina to the east (1 mark)
- (b) (i) Name two human features in grid square 0346. (2 marks)
- (ii) What is the bearing of the Air photo principal point in grid square 9452 (13A/13) from the trigonometric station in grid square 9552 (121T7) (2 marks)
- (c) Calculate the area of the natural forest in Kirinyaga District (2 marks)
- (d) (i) Using a scale of 1cm to represent 20 meters, draw an accurate cross section from grid square 850570 to grid square 910570. (3 marks)

- (ii) On the cross section mark and name;
 Forest (1 mark)
 River (1 mark)
- (iv) Determine indivisibility between the two end points (1 mark)
- (e) Describe the drainage of the area in the map extract (5 marks)
- (f) Students of a school at Ragati went for a field study in Karatina Township.
 (i) Name two types of settlement patterns they may have identified in the town. (2 marks)
 (ii) State four solutions to problems they may have encountered during the field study. (4 marks)
7. (a) (i) List two effects of horizontal earth movements (2 marks)
 (ii) Give three causes of earth movements. (3 marks)
- (b) Name and describe three types of plate tectonic boundaries. (6 marks)
- (c) (i) The diagram below shows a type of fold.



- Identify the type of fold. (1 mark)
- (iv) Name two other types of folds (2 marks)
- (d) With the aid of well labeled diagrams, explain the formation of fold mountains. (7 marks)
- (e) State four significance of folding to the physical and human environments. (4 marks)
8. (a) (i) What is a lake? (1 mark)
 (ii) List two sources of lake water (2 marks)
- (b) (i) Name two fresh water lakes in the Rift valley region of Kenya (2 marks)

- (ii) State four reasons why some lakes are saline (4 marks)
- (c) Giving an example in each case, describe the formation of;
- (i) Lake formed due to faulting (4 marks)
- (ii) Crater lakes (4 marks)
- (d) Explain four positive influence of lakes on human activities (8 marks)
- (a) (i) Give three sources of underground water (3 marks)
- (ii) State three factors that influence the existence of underground water. (3 marks)
- (b) The diagram below shows zones of ground water.



- (i) Identify the parts labeled Q and S. (2 marks)
- (ii) State three ways through which springs form (3 marks)
- (c) State four factors that influence the development of Karst Scenery (4 marks)
- (d) (i) Name two surface features in limestone regions (2 marks)
- (ii) Describe the formation of a stalagmite (4 marks)
- (e) Explain two ways through which limestone landscapes influence human activities. (4 marks)
10. (a) (i) Name two types of river erosion (2 marks)
- (ii) State three factors influencing the rate of river erosion (3 marks)
- (b) Name and describe three ways by which a river transports its load (6 marks)
- (c) (i) Apart from deltas, give two river depositional features (2 marks)
- (ii) Giving an example from Kenya, describe the formation of arcuate delta. (3 marks)
- (d) Describe the formation of the following river patterns;
- (i) Dendritic pattern (3 marks)
- (ii) Centripetal pattern (3 marks)
- (e) State three positive significance of rivers (3 marks)

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