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Name ..... Index Number ..... / .....

312/1  
GEOGRAPHY  
Paper 1  
Oct./Nov. 2015  
2¾ hours

Candidate's Signature .....

Date .....



**THE KENYA NATIONAL EXAMINATIONS COUNCIL**  
**Kenya Certificate of Secondary Education**  
**GEOGRAPHY**

05003013

Paper 1  
2¾ 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 8 printed pages.*
- (f) *Candidates should check the question 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.*



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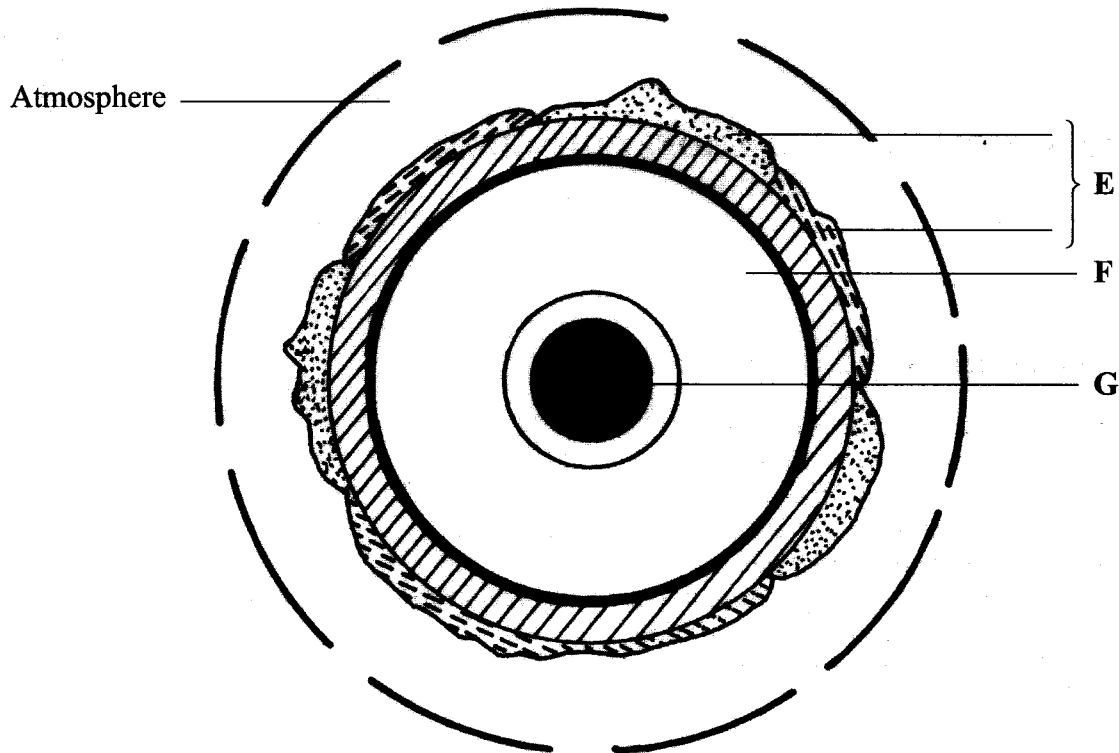


Turn over

**SECTION A**

*Answer all the questions in this section.*

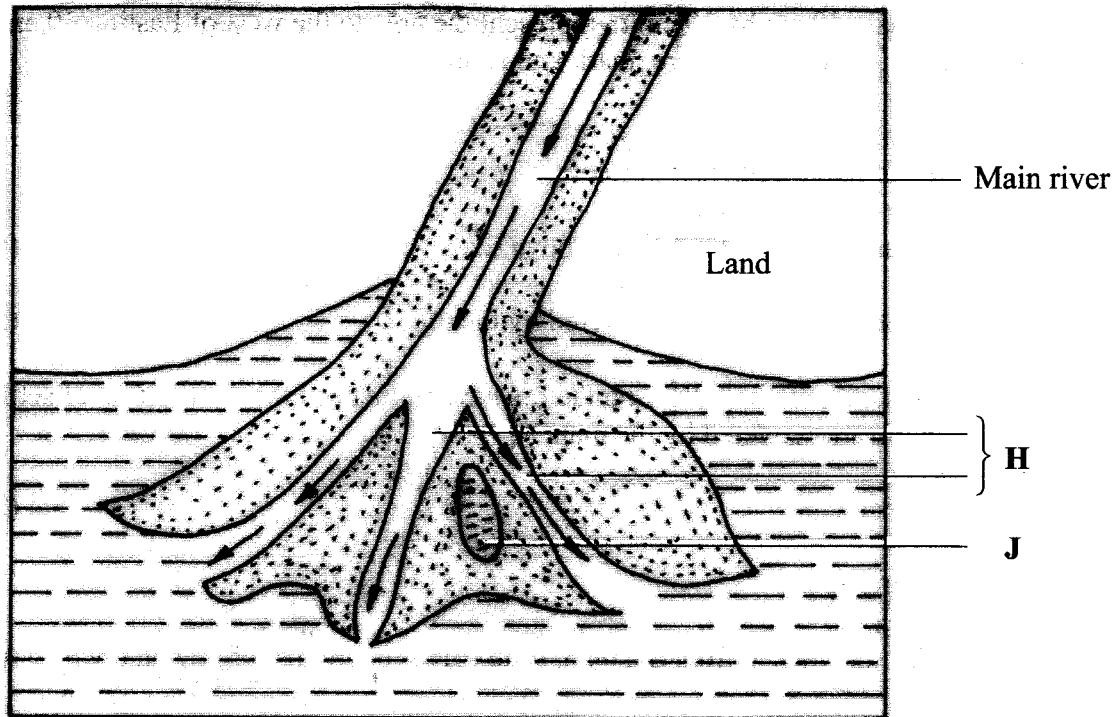
- 1 The diagram below represents the structure of the earth. Use it to answer question (a).



- (a) Name:
- (i) the layers marked E and F. (2 marks)
  - (ii) the minerals that make up the layer marked G. (2 marks)
- (b) Give **two** effects of the rotation of the earth on its axis. (2 marks)
- 2 (a) What is a metamorphic rock? (2 marks)
- (b) Give **three** examples of metamorphic rocks. (3 marks)
- 3 (a) Name **two** types of boundaries according to the plate tectonic theory. (2 marks)
- (b) Give **three** effects of the movement of tectonic plates. (3 marks)

- 4 (a) What is an earthquake? (2 marks)
- (b) Identify the scale used to measure:
- (i) the intensity of earthquakes; (1 mark)
- (ii) the magnitude of earthquakes. (1 mark)
- 5 (a) Give **three** characteristics of a river in its middle stage. (3 marks)

The diagram below shows a Bird's foot delta. Use it to answer question (b).



- (b) Identify the features marked **H** and **J**. (2 marks)

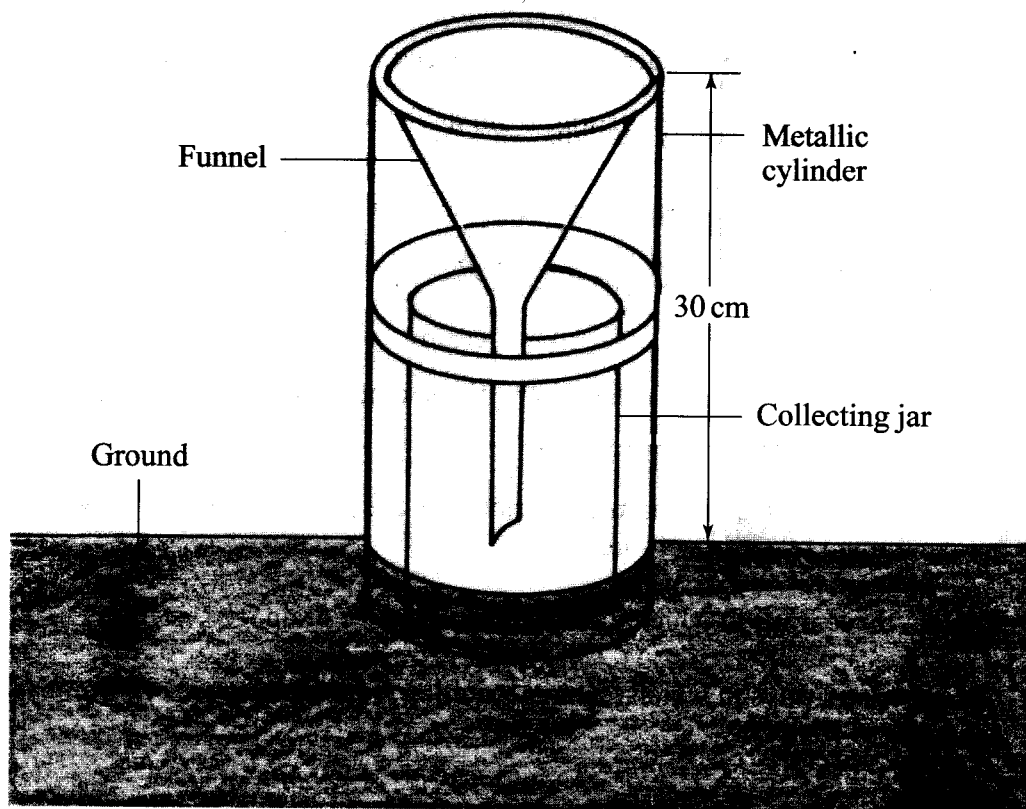
**SECTION B**

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

- 6 Study the map of Busia 1:50,000 (sheet 101/1) provided and answer the following questions.
- (a) (i) Convert the ratio scale of the map extract into a statement scale. (2 marks)
- (ii) What is the general direction of flow of river Sio? (1 mark)
- (iii) Identify the **two** dominant types of natural vegetation shown in the area covered by the map. (2 marks)
- (b) Draw a square 10 cm by 10 cm to represent the area to the west of Easting 30 and north of Northing 40. On the square, mark and label:
- (i) an international boundary;
- (ii) an air photo principal point;
- (iii) river Sio;
- (iv) the area above 1200 metres above sea level. (5 marks)
- (c) Describe the relief of the area covered by the map. (5 marks)
- (d) (i) Explain how the following factors have influenced the distribution of settlements in the area covered by the map:
- drainage; (2 marks)
  - transport. (2 marks)
- (ii) Citing evidence from the map, state **three** functions of Funyula town. (6 marks)

- 7 (a) (i) Define the term weather. (2 marks)
- (ii) Explain how the following factors influence weather: (4 marks)
- cloud cover; (4 marks)
  - local winds. (4 marks)

The diagram below represents a weather measuring instrument. Use it to answer question (b).



- (b) (i) Which element of weather is measured using the instrument shown above? (1 mark)
- (ii) Describe how the above instrument is used. (3 marks)

- (b) Explain how the following factors influence the amount of underground water in limestone areas:
- (i) rainfall; (4 marks)
  - (ii) vegetation cover. (4 marks)
- (c) (i) Apart from stalagmites, name **three** other underground features formed in limestone areas. (3 marks)
- (ii) With the aid of a diagram, describe how a stalagmite is formed. (8 marks)
- (d) Give **three** reasons why there are few settlements in Karst landscapes. (3 marks)

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