

GEOGRAPHY 312/1 Paper 1
Oct/Nov. 2005 2 ½ hours

SECTION A

Answer **all** the questions in this section.

- (a) Name **two** theories of the origin of the earth (2 marks)

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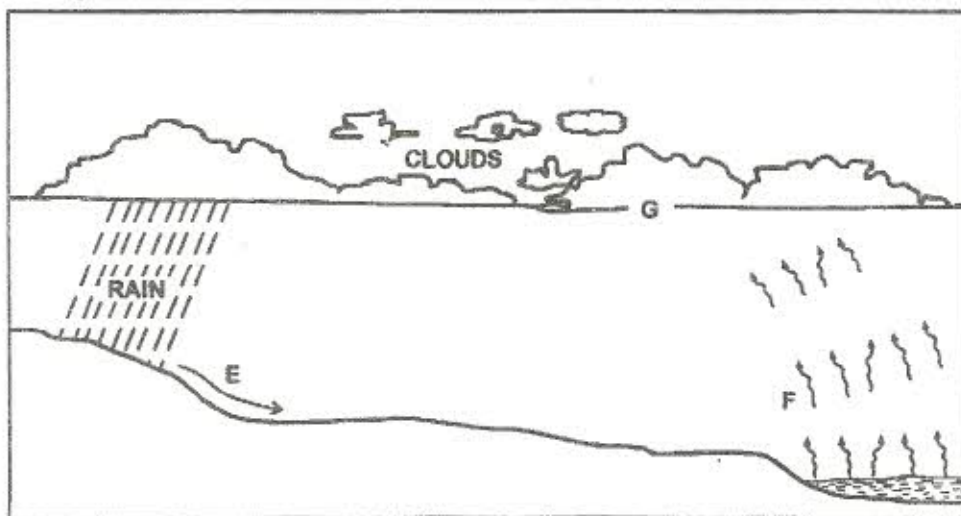
- (b) Name four layers of the earth's atmosphere (4 marks)

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- (a) The diagram below shows the hydrological cycle. Name the stages marked E, F and G in the cycle (3 marks)



- (b) Differentiate between a watershed and a catchment area. (2 marks)

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- (a) State **two** characteristics of sedimentary rocks. (2 marks)

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- (b) Give **two** examples of chemically formed sedimentary rocks. (2 marks)

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- (a) Name a place in Kenya where tarns are found (1 mark)

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- (b) Describe how a tarn is formed. (4 marks)

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- 5 (a) What is natural vegetation? (2 marks)
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- (b) State three characteristics of the mediterranean type of vegetation. (3 marks)
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SECTION B

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

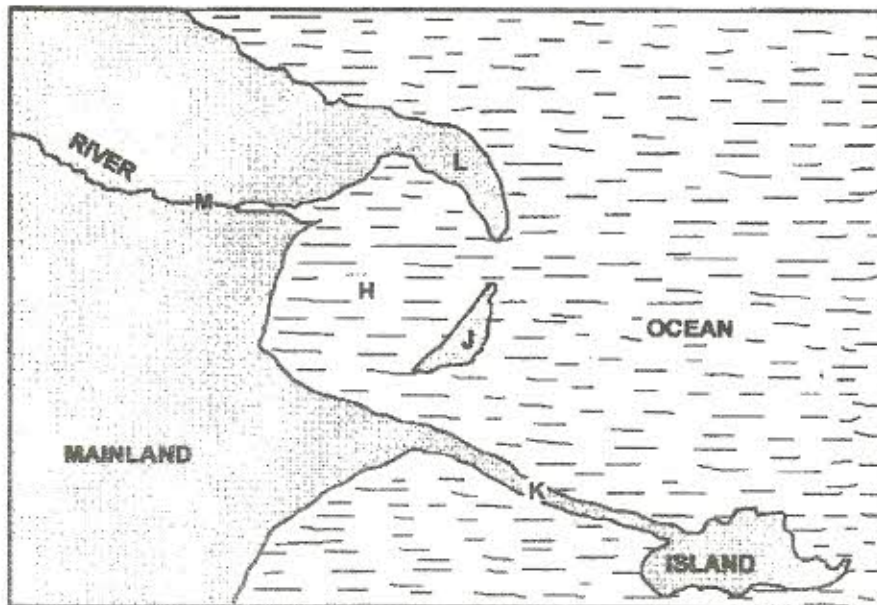
- 6 Study the map of SILALONI (1:50,000) provided and answer the following questions.

- (a) (i) Convert the ratio scale of the map extract into a statement scale (1 mark)
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- (ii) Give the six-figure grid reference of the point where the power line crosses the Samburu-Silaloni dry-weather road. (1 mark)
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- (iii) Give three types of natural vegetation shown in the area covered by the map. (3 marks)
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- (b) (i) Identify two sources of water in the area covered by the map. (2 marks)
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- (ii) Using evidence from the map, suggest four functions of Tsangatsini township. (4 marks)
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- (c) Using a vertical scale of 1 cm to represent 20 m:
- (i) Draw a cross section from grid reference 400 915 to 500 915. (3 marks)
- (ii) On the cross section, mark and name the following:
- A river
 - A road
 - A quarry
- (iii) Calculate the vertical exaggeration of the section you have drawn. (2 marks)
- (d) Students at Silaloni school (grid square 3199) carried out a field study on the soils around the school.
- (i) Give four reasons why a reconnaissance was necessary for the field study (4 marks)

(ii) Name **two** types of soils they collected.

(2 marks)

Use the diagram below to answer question (a).



(a) Name the coastal features marked **H, J, K, L** and **M**.

(5 marks)

(b) (i) State **four** conditions necessary for the formation of a beach

(4 marks)

(ii) Describe **three** processes involved in marine erosion

(6 marks)

(c) You are planning to carry out a field study on the depositional features along the coast of Kenya.

(i) State **five** objectives you would formulate for your study

(5 marks)

(ii) Give **five** methods you would use to record the information collected.

(5 marks)

- 8 (a) Name one fold mountain in: (1 mark)
(i) Asia (1 mark)
(ii) North America (1 mark)
(iii) South America (1 mark)
(b) (i) Apart from fold mountains, name three other features resulting from folding. (3 marks)

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- (ii) With the aid of a labelled diagram, describe the formation of an overthrust fold. (6 marks)

- (c) Explain four effects of fold mountains on human activities. (3 marks)

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- (d) Students are planning to carry out a field study on landforms in their District.
(i) State three ways in which the students would prepare themselves for the field study. (3 marks)

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- (ii) Give two advantages of studying landforms through field work. (2 marks)

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