GEOGRAPHY 312/1 Paper 1
Oct/Nov. 2005 2 \(\frac{1}{2}\) hours

SECTION A
Answer all the questions in this section.

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

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

(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)

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

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

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

(b) Describe how a tarn is formed. (4 marks)
5 (a) What is natural vegetation? (2 marks)

(b) State three characteristics of the Mediterranean type of vegetation. (3 marks)

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)

(ii) Give the six-figure grid reference of the point where the power line crosses the Samburu-Silaloni dry-weather road. (1 mark)

(iii) Give three types of natural vegetation shown in the area covered by the map. (3 marks)

(b) (i) Identify two sources of water in the area covered by the map. (2 marks)

(ii) Using evidence from the map, suggest four functions of Tsangatsini township. (4 marks)

(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 (3 marks)
(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)
(a) Name one fold mountain in:
   (i) Asia
   (ii) North America
   (iii) South America
   (1 mark)
   (1 mark)
   (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)
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   (c) Explain four effects of fold mountains on human activities.
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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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