GEOGRAPHY PAPER 1 1996

SECTION A

Answer all the questions in this section in the spaces provided.

1. a) List two features resulting from extrusive volcanic activity. (2mks)
   b) State four ways in which volcanicity has influenced human activities in Kenya. (4mks)

2. The block diagram below represents part of Earth's crust which has been subjected to tensional forces.

   ![Block diagram](image)

   a) Name (i) the slope marked A (1mk)
   b) State three ways in which faulting can influence drainage systems. (3mk)

3. a) What is isobar? (1mk)
   b) List four characteristics of modified Equatorial Climate (such as experienced in the lake Victoria Basin). (4mks)

4. a) If the local time in Nairobi at longitude 37° E is 10.00 a.m. What will the time be at Buchanam in Liberia at longitude 10° W? (2mks)
   b) What is the effect of the international date line on time? (2mks)

5. a) Give three examples of mechanically formed sedimentary rocks. (3mks)
   b) State two changes that occur in sedimentary rocks when they are subjected to intense heat and pressure. (2mks)

SECTION B

Answer question 1 and any other two questions from this section in your Booklet.

1. Study the map of Ithanga (1:50,000 sheet 135/4) provided and answer the following questions.
   a) i) Give a six-figure grid reference for the trigonometrical station to the south-east of the area covered by the map. (1mk)
   ii) What is the bearing of the school at Kamwiendei village from the church at Riakanau? (1mk)
   iii) Measure the length of the dry weather road (E 625), from the junction at karaba shops to where it ends at Riakanau village. Give your answer in kilometers. (2mks)
   iv) Calculate the area of Tebere B in the northern part of the map. Give your answer in square kilometers. (2mks)
   b) Student from one of the schools in the area covered by the map carried out a field study on the physical features and economical activities found in the area.
i) Name two types of natural vegetation they are likely to have identified (2mks)

ii) Citing evidence from the map, name three economic activities the students are likely to have identified during their study (3mks)

iii) Citing evidence from map, name two methods the students are likely to have used to cross River Tana. (2mks)

c) Describe the drainage of the area covered by the map. (4mks)

d) Describe the distribution of settlements in the area covered by the map. (3mks)

e) Draw a rectangle 15cm by 10cm to represent the area west of Easting 20 and south of northing 00. On the rectangle, mark and name:

   i) The provincial boundary
   ii) Ithanga hills
   iii) The sisal plantation to the south west of the area (4mks)

2 a)i) What is river divide? (6mks)

   ii) Describe three ways by which a river transports its load (6mks)

b) Describe the characteristics of a river in its old age (7mks)

c) Describe each of the following drainage patterns

   i) Superimposed drainage pattern (3mks)
   ii) Centripetal drainage pattern (2mks)

d) You have planned to carry out a study of a river in its youthful stage

   i) State two ways in which you would prepare for the study (2mks)
   ii) Name two feature you are likely to study (2mks)
   iii) List two problems you are likely to experience during the study (2mks)

3. a) List four processes through which costs are eroded (4mks)

   b) Using well-labeled diagram, explain how each of the following features is used formed.

   i) A spit (4mks)
   ii) A blow hole (2mks)
   iii) An a toll (5mks)

   c) Some student carried out a field study on the coastal features found along the coast of Kenya.

   i) List three features formed as a result of coastal emergence that they are likely to have studied (3mks)
   ii) State three methods that student may have used to record their data (2mks)
   iii) Describe two ways in which features resulting from coastal emergence are of significance of Kenya (2mks)

4. a) List four characteristics of desert soil (4mks)

   ii) Two factors that contribute to soil leaching (2mks)

b) Explain how each of the following factors influences the formation of soil:

   i) Parent rock (2mks)
   ii) Living organisms (2mks)
   iii) Topography (2mks)

   c) Draw a well labeled profile of mature soil (5mks)
d) Explain four ways in which human activities contribute to soil erosion. (8mks)