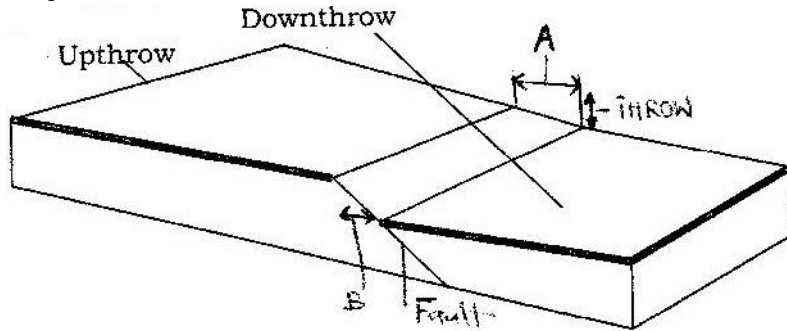


## GEOGRAPHY PAPER 1 1996

### SECTION A

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

- List two features resulting from extrusive volcanic activity. (2mks)
  - State four ways in which volcanicity has influenced human activities in Kenya. (4mks)
- The block diagram below represent part of earth's crust which has been subjected to tensional forces.



- Name (i) the slope marked A (1mk)
  - State three ways in which faulting can influence drainage systems. (3mk)
- What is isobar? (1mk)
    - List four characteristics of modified Equatorial Climate (such as experienced in the lake Victoria Basin. (4mks)
  - If the local time in Nairobi at longitude  $37^{\circ}$  E is 10.00 a.m . What will the time be at /Buchanan in Liberia at longitude  $10^{\circ}$ W
    - What is the effect of the international date line on time? (2mks)
  - Give three examples of mechanically formed sedimentary rocks (3mks)
    - 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.

- Study the map of Ithanga (1:50,000 sheet 135/4 ) provided and answer the following questions.
  - Give a six – figured grid reference for the trigonometrical station to the south – east of the area covered by the map (1mk)
    - What is the bearing of the school at kamwiendei village from the church at Riakanau?
    - 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)
    - Calculate the area of Tebere B in the northern part of the map. Give your answer in square kilometers (2mks)
  - 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 tha 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
- i) **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 labelled profile of mature soil (5mks)

d) Explain four ways in which human activities contribute to soil erosion.  
(8mks)