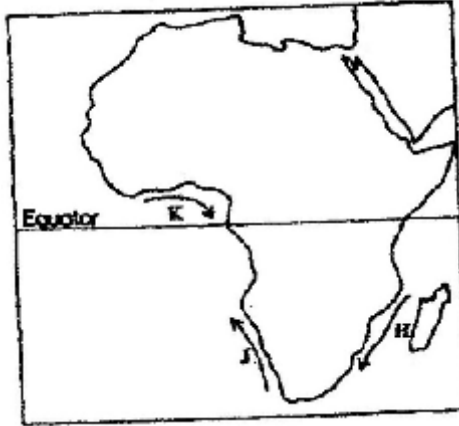# GEOGRAPHY PAPER 1 2006
Answer all the questions in this section
SECTION A

1.   (a) How does a sea breeze occur?   (2 mks)

(b) Use the map of Africa below to answer questions (b) (i)

(i) Name the ocean currents marked H,J, and K   (3 mks)
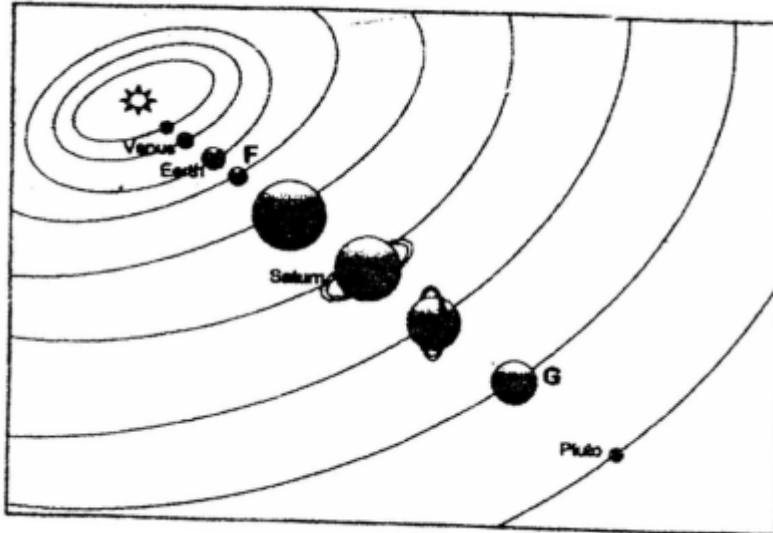(ii) State two effects of a warm ocean current on the adjacent coastlands
                                                        (2 mks)

2.   Give two processes involved in each of the following types of weathering
            (a) Physical weathering   (2 mks)
            (b) Chemical weathering   (2mks)

3.   The diagram below shows the composition of the solar system

(a) Name the planets marked F and G   (2 mks)
(b) State three effects of the rotation of the earth on its axis   (3 mks)

4.   (a) Name two scales used to measure the intensity of an earthquake (2 mks)
        (b) Give three causes of earthquakes   (3 mks)

5.   The table below represents rainfall and temperature figures for a town in   Africa. Use it to answer the questions that follow

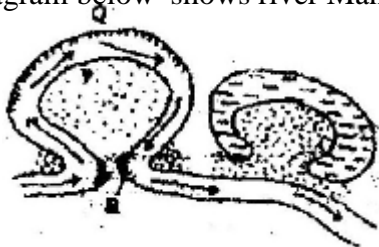| Month	J	F	M	A	M	J	J	A	S	O	N	D
Temp (^{0}C)	27	28	28	28	27	25	25	24	25	26	27	26
Rainfall (mm)	25	38	99	140	277	439	277	69	142	201	71	25

(a)   (i) calculate the annual range of temperature for the town   (1 mk)
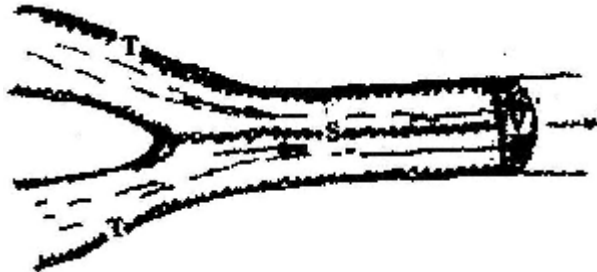
SECTION B
Answer question 6 and any other two questions from this section

6.   Study the map of Nyahururu, 1: 50,000 (sheet 105/4) provided and answer the following questions
(a)   (i)   Give the six figure grid of the junction where the road to
             Ndaragwa (D 388) meets with the road to Nyeri & Nanyuki (B5)
             (2 mks)
      (ii)   Calculate the bearing of point X from point Y   (2mks)
      (iii) Name three physical features found along the line XY   (3mks)

(b)   (i)   Draw a square 12 cm by 12 cm to represent the area enclosed by
             the Easting 10 and northing 10 to the North- eastern part of the
             map   (1 mk)
      (ii)   On the square, mark and label
             •   The main river   (1 mk)
             •   All weather loose surface road   (1 mk)
             •   A forest   (1 mk)

(b)   Citing evidence from the map, explain two
                  (i)   Physical factors that may have influenced the location of
                        Nyahururu town   (4 mks)
                  (ii) Factors that favour saw milling in the area covered by
                        the map   (4 mks)
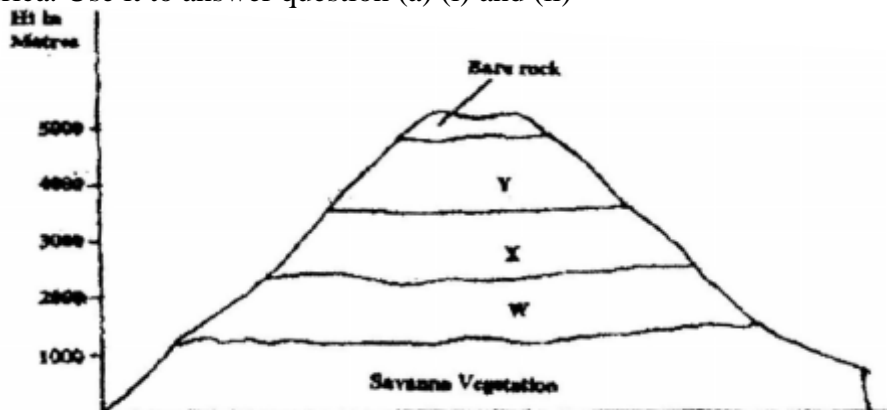
4.   The diagram below shows river Mandera. Use it to answer question (a)

(a)   (i)   Name the process that take place at each of the points marked P and Q.   (2mks)

(ii) Name the feature formed at the point marked R   (1mk)

(iii) Describe how an Ox- bow lake is formed   (5 mks)

(b)   State five characteristics of a flood plain   (5 mks)

(c)   Explain three causes of river rejuvenation   (6 mks)

(c)   Your class is required to carry out a field study of a river

    (i)   What would be the advantages of dividing the class into groups according to the stages of the long profile of a river?   (4mks)

    (ii)   What would be the disadvantage of using secondary data in this kind of a field study?   (2mks)

8.   (a)   (i)   What is an ice sheet?   (2mks)

    (ii)   Give two reasons why there are no ice sheets in Kenya   (2mks)

    (iii)   Explain three factors that influence the movement of the ice from the place where it has accumulated   (6mks)

(b)   Describe how an arête is formed   (4mks)

(b)   The diagram below shows types of moraines in a valley glacier

    (i)   Name the type of moraines marked S, T and V   (3mks)

    (ii)   Explain four positive effects of glaciation in lowland areas.   (8mks)

9.   The diagram below represents zones of natural vegetation on a mountain in Africa. Use it to answer question (a) (i) and (ii)

a)   (i)   Name the vegetation zones marked W, X and Y.   (3mks)

       (ii)   Describe the characteristics of the savanna vegetation.   (6mks)

       (iii)   Name the temperate grasslands found in the following countries:

- Canada   (1mk)
- Russia   (1mk)
- Australia   (1mk)

b)   Explain three causes of the decline of the areas under forest in Kenya.

       (6mks)

c)   You are supposed to carry out a field study on the uses of vegetation in the area your school.

       (i)   State three reasons why it would be necessary to visit the area before the day of the study.   (3mks)

       (ii)   Give four uses of you are likely to identify during the study (4mks)

10.   a)   (i)   What is soil catena?

            (ii)   Draw a labeled diagram to show a well developed soil profile.   (5mks)

            (iii)   State three characteristics of the soils found in the arid regions of Kenya.   (3mks)

     b)   Give three factors that determine the colour of soil.

     c)   Describe how laterization occurs.   (6mks)

     d)   Explain how the following farming practices cause soil erosion.

       (i)   Burning   (2mks)

       (ii)   Continuous application of fertilizer on farm lands.   (2mks)

       (iii)   Monocultures.   (2mks)