NAME:…………………………………………… INDEX NO:…………………………

SCHOOL:……………………………………….. DATE:………………………………

SIGN:…………….…….………..

312/1
GEOGRAPHY
PAPER 1
JULY/AUGUST - 2012
Time: 2 ¾ HOURS

BORABU-MASABA DISTRICTS JOINT EVALUATION TEST– 2012
Kenya Certificate of Secondary Education (K.C.S.E)

**INSTRUCTIONS TO CANDIDATES**
1. This paper has two sections : A and B
2. Answer <u>ALL</u> questions in section A. In section B, answer question <u>6</u> and <u>any other two</u> Questions.
3. All answers must be written in the answer booklet provided.
4. Candidate should check the question paper to ascertain that all the pages are printed as indicated and that no question are missing.

This paper consists of 4 printed pages.
Candidates should check the question paper to ensure that all
pages are printed as indicated and no questions are missing

Answer ALL the questions in this section.

1. (a) Give the two dates in an year when the number of hours of day light and darkness are
        equal in both the north pole and south pole.   (2mks)

    (b) State three effects of the rotation of the earth.   (3mks)

2. (a) The diagram below shows the hydrological cycle. Name the stages marked A,B and C in
   the cycle.   (3mks)
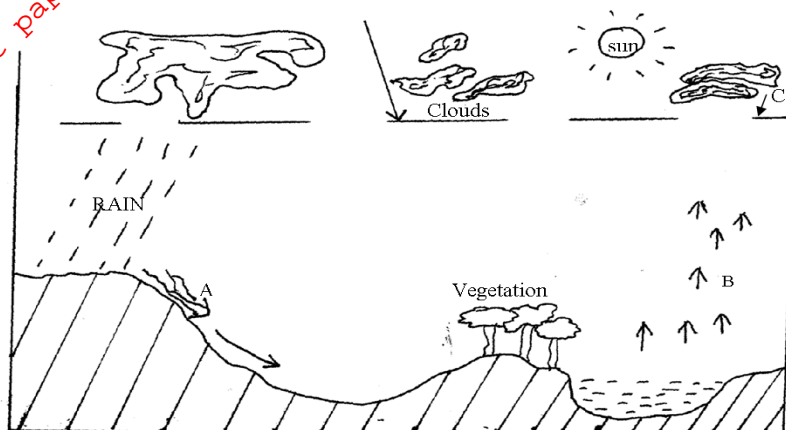
    (b) Differentiate between a water shed and a catchment area.   (2mks)

3. (a) What is 'natural vegetation'   (2mks)

    (b) State four characteristics of Mediterranean type of vegetation.   (4mks)

4. (a) Name two scales used to measure intensity of an earth quake   (2mks)

    (b) Give three causes of earth quakes.   (3mks)

    (c) Name one type of seismic wave.   (1mk)

5. (a) State two causes of submergence coasts   (2mks)

    (b) State one characteristics of faulted Lakes   (1mk)

SECTION B

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

6. Study the map of Homabay (1:50,000) sheet 129/2 provided and answer question that follow.

    (a) (i)   Name the country in which the area represented by the map is found.   (1mk)

        (ii)   Convert the representative Fractian (R.F) scale of the map to statement scale.

                                                                                        (2mks)

        (iii) Calculate the bearing of point X from Y .   (2mks)

    (b) (i)   Calculate the area of Olambwe Valley National reserve.

        (ii)   Identify any three types of natural vegetation found in the west of the Easting 50
               covered by the map.   (3mks)

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(c) (i) Using a vertical scale of 1cm to represent 500 feets, draw a across – section along the line Y-X. (5mks)

(ii) On the cross – section Mark and label the following,

- River Petokiri (1mk)
- Sugulu hill (1mk)
- Dry weather road (1mk)
- Papyrus swamp (1mk)

(d) Students of the school at Rabuur in grid square 6342 carried out a field study on industrialization in Homabay town.

(i) Give any two objectives for their study (2mks)

(ii) Name any two agricultural based manufacturing firms (enterprises) they would have identified for their study. (2mks)

(iii) A part from manufacturing (processing),state any other two economic activities they would have identified .Cite evidence (3mks)

7. (a) (i) Differentiate between soil profile and soil catena (2mks)

(ii) Draw a well labeled diagram of soil catena (5mks)

(b) (i) State three factors that influence soil formation (3mks)

(ii) Identify any two components of soil (2mks)

(c) Explain any four farming methods that help conserve soils (8mks)

(d) Students from Mobamba secondary school intend to carry out a field study on soils around their schools.

(i) State three reasons why they would need a route map (3mks)

(ii) Name two tools they will need to carry for use during their field study (2mks)

8. (a) (i) Differentiate between weathering and mass wasting (2mks)

(ii) State three main agents of weathering (3mks)

(b) Explain three effects of soil creep on the earth's surface (6mks)

(c) Describe the following chemical weathering processes

(i) Hydration (3mks)

(ii) Oxidation (3mks)

(iii) Carbonation (3mks)

(d) Students from Vihiga high school carried field study on weathering around their school.

(i) Give three reason why they carried out a reconnaissance survey (3mks)

(ii) State two methods they used to record the data collected during field study.(2mks)

9. The diagram below represent underground features in a limestone area. Use it to answer question (a) below.

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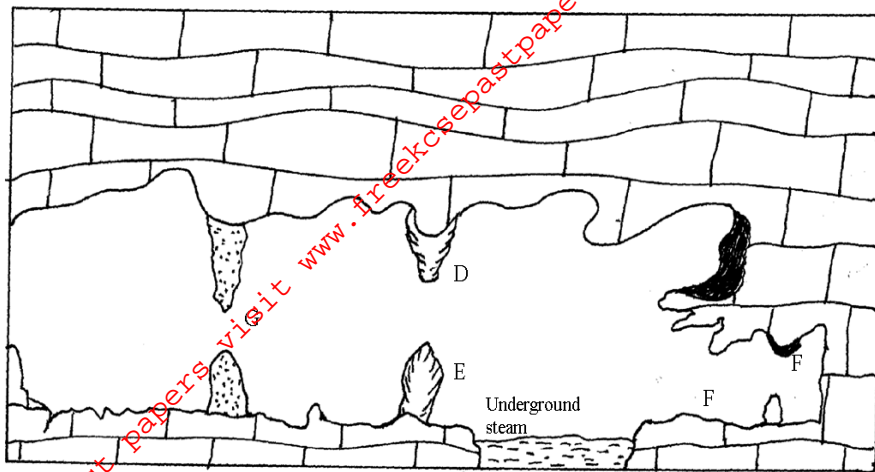
(a) (i) Name the features marked D,E and F (3mks)

(ii) Describe how feature marked G is formed (6mks)

(b) (i) What is an artesian basin? (2mks)

(ii) Explain three factors which influence the formation of features in limestone areas. (6mks)

(c) You intend to carry out a field study in an area eroded by water.

(i) Give three reasons why you will need a working schedule. (3mks)

(ii) Name two erosional features you are likely to identify during the field study. (2mks)

(iii) State three recommendations that you would make from your study to assist the local community to rehabilitate the eroded area. (3mks)

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

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

(iv) Explain three factors that influence movement of ice from where it has accumulated. (6mks)

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

(c) The diagram below shows types of moraines in a glacial valley.
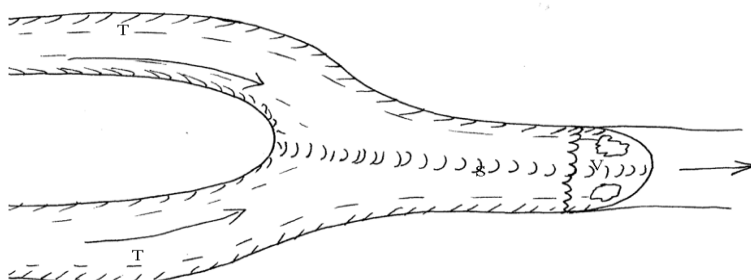
(i) Name the types of moraines marked S,T and V (3mks)

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