

Name.....  
School.....  
Candidate's Signature.....

Index No...../.....  
Date .....

312/1  
GEOGRAPHY  
Paper 1  
JULY / AUGUST 2012  
Time: 2  $\frac{3}{4}$  HOURS

**MBITA-SUBA DISTRICTS JOINT EXAMINATION - 2012**  
*Kenya Certificate of Secondary Education (K.C.S.E)*

312/1  
GEOGRAPHY  
Paper 1  
JULY / AUGUST 2012  
Time: 2  $\frac{3}{4}$  HOURS

**INSTRUCTIONS TO CANDIDATES**

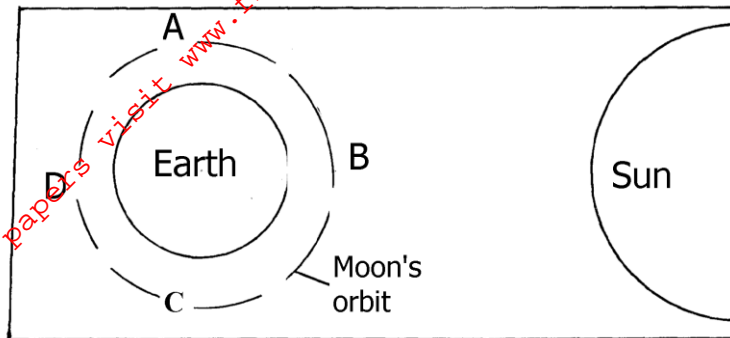
- This paper has Two sections: A and B
- Answer all the question in section A.
- In section B answer question 6 and any other two questions
- All answer must be written in the answer booklet provided

*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*

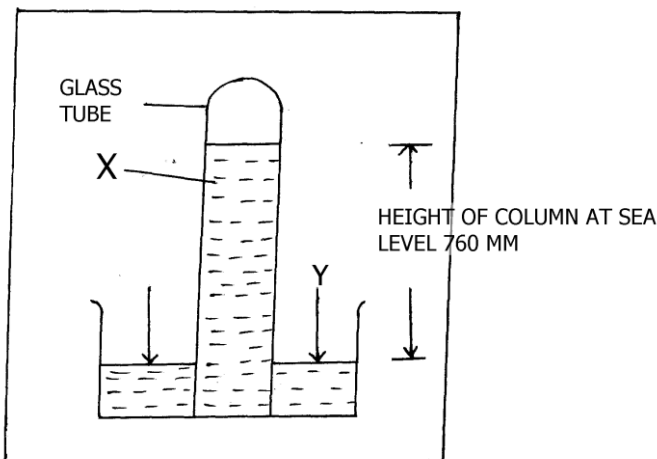
## SECTION A.

Answer ALL questions in this section

1. a) List any two branches of physical Geography . (2mks)
- b) Mention any **three** practical skills acquired through studying Geography as a subject.
2. The diagram below shown the sun, earth and the orbit of the moon round the earth. Study it and answer the questions that follow.

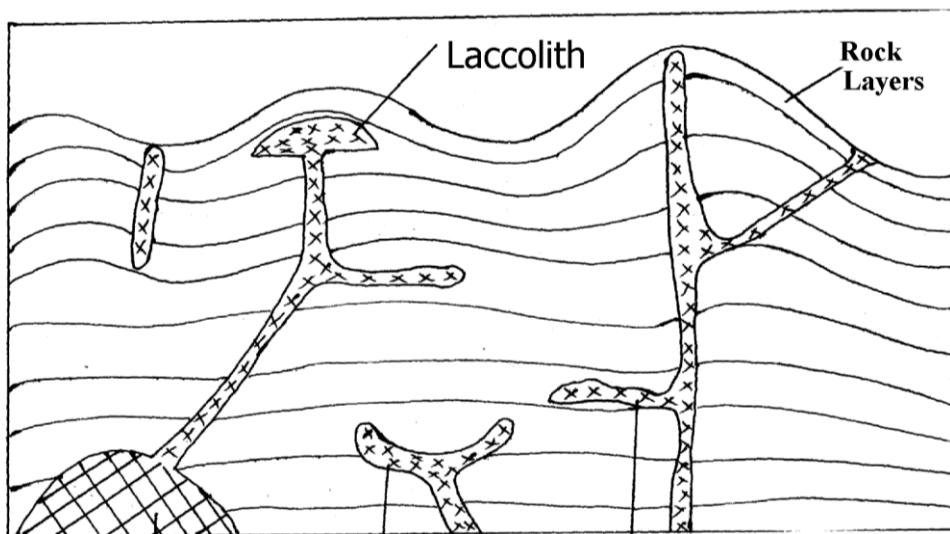


- a) At what position is the moon likely to be for :
  - i) Solar eclipse to occur (1mk)
  - ii) Lunar eclipse to occur (1mk)
- b) If the local time at longitude  $120^{\circ}\text{E}$  is 3.00 p.m. What will be the local time at longitude  $165^{\circ}\text{E}$ .
3. The instrument below is used to measure an element of weather. Study it and answer the questions below.



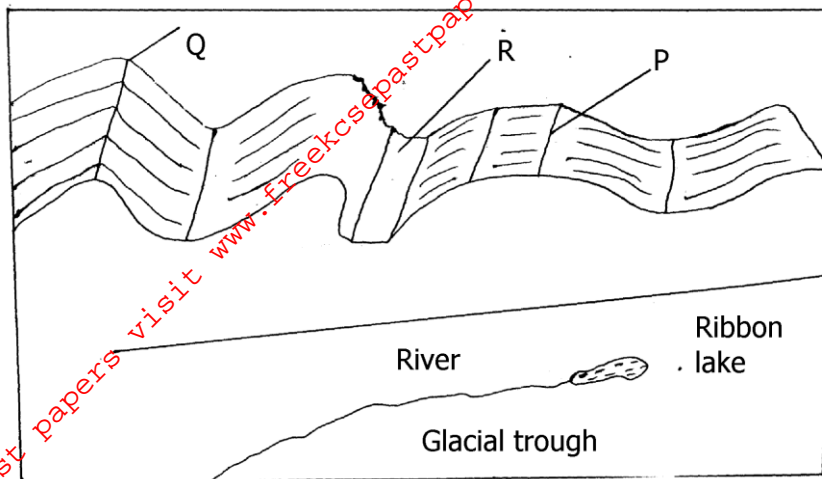
- a) i) Name the liquid marked X (1mk)
- ii) Identify the instrument shown above (1mk)
- b) Describe how the instrument above works. (3mks)
4. a) Explain briefly how the following factors influence vegetation distribution
  - i) Aspect
  - ii) Precipitation
- b) Give three reasons why natural grasslands are declining in Kenya
5. a) Apart from Rift Valley, name any other two resultant features of faulting
- b) List any two types of faults
- SECTION B : Answer question 6 and any other two from this section
6. Study the map of Nkubu ( 1 : 50, 000) sheet 122 / 1 provided and use it to answer the question that follow.
  - a) i) Convert the scale of the map into statement scale . (2mks)
  - ii) What is the approximate height of swamp to the north East of the area covered by the map.

- iii) Using the marginal information give the magnetic variation of the area when the map extract was drawn.
- b) i) Give two types of natural Vegetation found to the East of Easting 55  
 ii) Measure the length of the section of all weather road( bound surface) from the junction in grid square 5095 to where it ends at the edge of the map extract to the north. Give your answer in Kilometres  
 iii) What is the bearing of Kithare coffee factory at grid square 5594 from the quarry at grid square 5899.
- c) i) Using a scale of 1cm : 20m, draw a cross section from Easting 55 to the extreme end of the map along Northing 95. On it mark and label  
 - a river  
 - Dry weather road  
 - Dip slope  
 ii) Calculate the vertical exaggeration of the cross section above
- d) Describe the relief of the area covered by the map
7. a) Differentiate between magma and lava. (2mks)  
 b) The diagram below shows intrusive volcano features

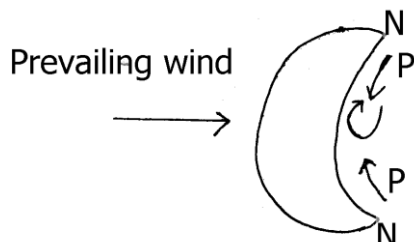


- i) Name the features marked  
 F (1mk)  
 G (1mk)  
 Y (1mk)
- ii) Describe how hot springs are formed, given any one example of hot spring in Kenya. (6mks)
- c) Explain four negative influences of volcanic features on human activities
- d) Form two students from Moi Girls Secondary school carried out field study on volcanic rock around their school.  
 i) Give three reasons why it is necessary to rock samples during such a field study  
 ii) State three problems they are likely to experience during this study
8. a) Distinguish between mass wasting and mass movement  
 b) i) List any two types of slow mass wasting other than soil creep  
 ii) Outline three pieces of evidence of soil creep  
 iii) With the aid of a well-labelled diagram explain how river capture occurs
- c) i) State three causes of river rejuvenation  
 ii) Identify two features formed as a result of river rejuvenation
- d) Explain four ways in which human activity has affected rivers in Kenya

9. The diagram below shows a glaciated upland



- a) Name the features marked P, Q and R
  - b) Describe how the following features are formed
    - i) U-shaped valley
    - ii) A fjord
  - c)
    - i) Distinguish between a valley glacier and ice sheet
    - ii) Name any four features resulting from glacial deposition in lowlands
  - d)
    - i) Form four students of Manor House Academy carried out fieldwork on glaciation mount Kenya.
      - i) State two objectives of their study. (2mks)
      - ii) Give three reasons why they need a route map. (3mks)
    - ii) Outline five significance of upland glaciated features to human activities (5mks)
- 10.
- a)
    - i) State three processes of wind erosion in desert areas
    - ii) Name four features resulting from wind erosion in desert areas
  - b) The diagram below shows a feature formed as a result of wind deposition in desert areas



- i) Identify the feature above
- ii) The part labelled N
- iii) The air current marked P
- iv) State three conditions that are necessary
 

For the above feature to be formed
- c)
  - i) Name any three features of karst landscape. (3mks)
  - ii) Give reasons why there are few settlements the karst landscape area
- d) Outline five significance of arid landforms