

**312/1**  
**GEOGRAPHY**  
**PAPER 1**  
**JAN./FEB. 2013**  
**3¾ HOURS**

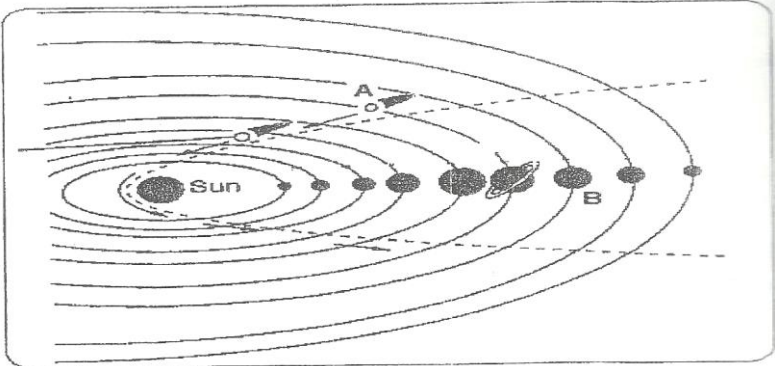
**BUNYORE –MARANDA JOINT ENROLMENT EXAMINATIONS 2013**  
**The Kenya Certificate of Secondary Education**  
**GEOGRAPHY**  
**PAPER 1**  
**2½ Hours**

**Instructions to candidates**

- (a) This paper consists two section A and B
- (b) Answer all the questions in section A
- (c) Answer question 6 and any other two questions from section B.
- (d) All answers must be written in the answer booklet provided.
- (e) This paper consists of 6 printed pages.
- (f) Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.

## SECTION A

Answer all questions in this section

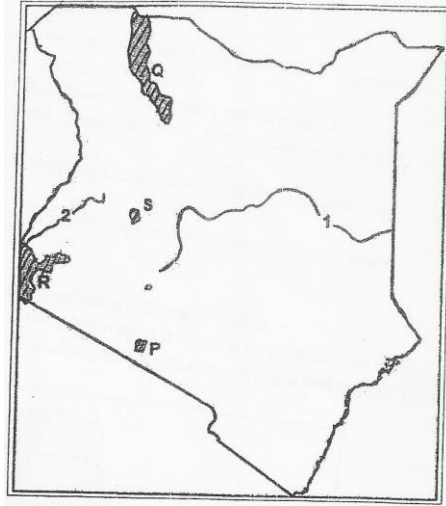
1. (a) What do you understand by the following ?
  - (i) Micro climate (2mks)
  - (ii) Greenhouse effects (2mks)
- (b) State two conditions necessary for formation of fog. (2mks)
2. (a) Name two types of tectonic plates (2mks)
- (b) State two effects of earthquakes on the human environment (2mks)
3. (a) State three factors that influence the occurrence of underground water. (3mks)
- (b) Give two processes involved in the formation of Karst scenery. (2mks)
4. The diagram below represents the solar system. Use it to answer question (a)  

  - a) Name the heavenly bodies labeled A and B (2mks)
  - b) Give two characteristics of Jupiter planet. (2mks)
5. (a) Identify categories of desert surfaces (3mks)
- (b) State three reasons why wind is an active agent of erosion in hot deserts. (3mks)

## SECTION B

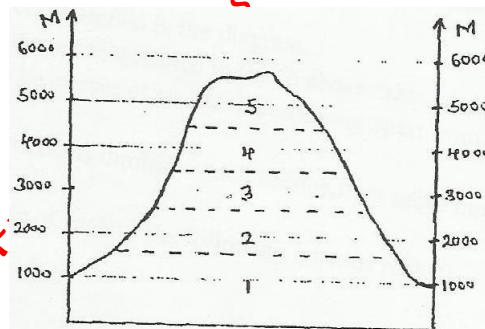
*Answer question 6 and any other two questions from this section*

6. Study the map of Kitale (sheet 75/3, Scale 1:50,000) provided and answer the questions that follow.
- (a) (i) Name the features found in grid reference 395328. (1mk)
- (ii) Name two drainage features other than rivers shown in the mapped area (2mks)
- (b) (i) MEASURE THE length of the all- weather loose surface road C 638 from its junction with the dry weather road C 640 at grid square 4314 to Northing 11. Give your answer in Kilometres.
- (ii) Calculate the area of Kapolet Forest Area in square kilometers. (2mks)
- (c) (i) Give the approximate position of Kitale Township in latitude and longitude (2mks)
- (ii) What is the general direction of flow of River Njirameger? (2mks)
- (d) (i) Draw a frame of dimensions 14cm by 10cm to represent the area bound by the eastings 23 and 30 and the northings 11 and 16. (1mk)
- (ii) On the frame, mark and name:
- railway line;
  - Papyrus swamp;
  - All weather loose surface road C 641. (3mks)
- (iii) State the scale of the sketch drawn in (b)(i) above. (1mk)
- (e) Students from a school in grid square 2614 conducted a field study of Kitale township.
- (i) Citing evidence from the map, state three functions of Kitale Township they are likely to identify. (3mks)
- (ii) State two physical problems they could have encountered during the study. (2mks)
- (f) Describe the vegetation of the area covered by the mapped area. (4mks)
7. (a) (i) Define the term lake (2mks)
- (ii) Name three sources of water in the lakes other than rivers. (3mks)
- (b) (i) State three reasons why some lakes may contain fresh water (3mks)
- (ii) Give two examples of lakes formed due to vulcanicity in East Africa. (2mks)

- (c) The map below shows some lakes and rivers in Kenya. Study it and use it to answer the questions that follow.



- (i) Name the rivers marked 1 and 2. (2mks)
  - (ii) Identify and name the lakes marked P, Q, S. (3mks)
  - (iii) Briefly explain how the lake R was formed. (5mks)
  - (d) State five significances of lakes. (5mks)
8. (a) Differentiate between natural vegetation and derived vegetation. (2mks)
- (b) (i) Outline three characteristics of tropical grasslands (3mks)
  - (ii) Explain three factors that have led to a decline of the natural grasslands in Kenya (6mks)
- (c) The diagram below shows vegetation succession on a mountain in the tropics. Study and use it to answer the questions that follow.



- (i) State two reasons why the line region marked 5 has poor/scanty vegetation (2mks)
  - (ii) Give three uses of vegetation region marked 1 (3mks)
  - (iii) Name two species of tree found in vegetation region marked 2. (2mks)
- (d) Students of Bunyore Girls intend to conduct a field study on vegetation in an arid and semi-arid land in Kenya.
- (i) Explain two adaptations of desert vegetation they are likely to observe during the study. (4mks)
  - (ii) State three methods of data collection you would employ during the study. (3mks)

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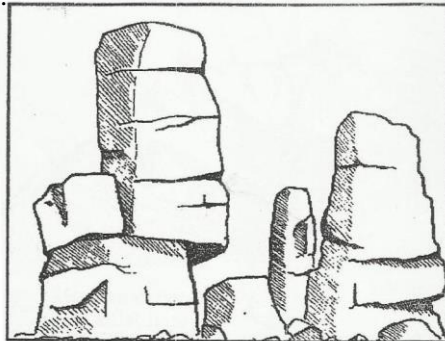
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Geography

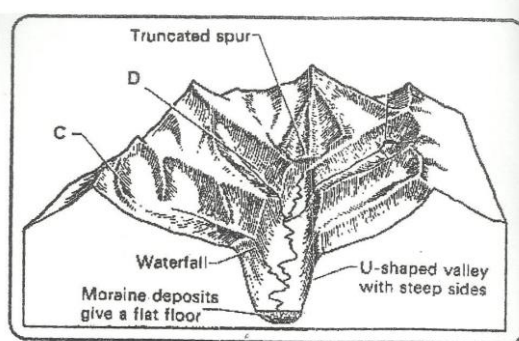
Paper 1

Page 4

9. (a) (i) Give two differences between weathering and mass wasting. (2mks)  
(ii) Name two other processes of denudation apart from weathering and mass wasting. (2mks)  
(b) The diagram below shows a process of physical weathering. Study it and use it to answer the questions that follow.



- (i) Identify the process shown in the diagram (1mk)  
(ii) Describe how the process named in (b) (i) above takes place. (4mks)  
(iii) Give two other processes of physical weathering apart from the one named in (b) (i) above. (2mks)  
(c) (i) Describe two processes through which sedimentary rocks may change into metamorphic rocks. (4mks)  
(ii) Give two examples of each of the following igneous rocks;  
  - Plutonic
  - Hypabyssal
  - Volcanic
(3mks)  
(d) Suppose members of your class were to conduct a field study on rocks within the vicinity of school.  
(i) Name two secondary sources of information you would use to prepare for the study. (2mks)  
(ii) State three activities you would carry out during the study (3mks)  
(iii) State two importance of rocks you are likely to find out during the study. (2mks)  
10. (a) Differentiate between a valley glacier and an ice sheet. (2mks)  
(b) Briefly describe how the ice moves through the following processes.  
(i) Basal slip (3mks)  
(ii) Extrusion flow. (3mks)  
(c) State two processes through which glaciers erode (2mks)  
(d) The diagram below shows various features that result from glacial erosion. Use it to answer the questions (i)



- (i) Identify and name the features labeled C and D. (2mks)
- (ii) Describe the formation of a cirque. (4mks)
- (e) With the aid of clear labeled diagram(s), name three types of moraines. (3mks)
- (f) Explain three benefits of glaciations to human activities. (6mks)

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