

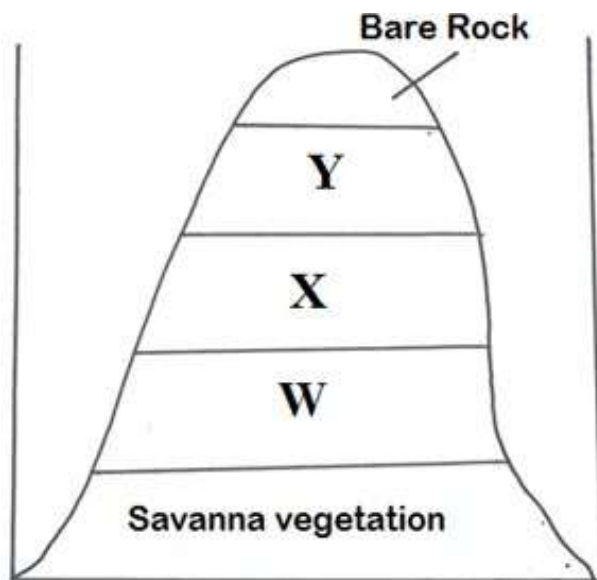
## FORM FOUR CLUSTER KCSE MODEL1

### GEOGRAPHY PAPER 1 QUESTIONS

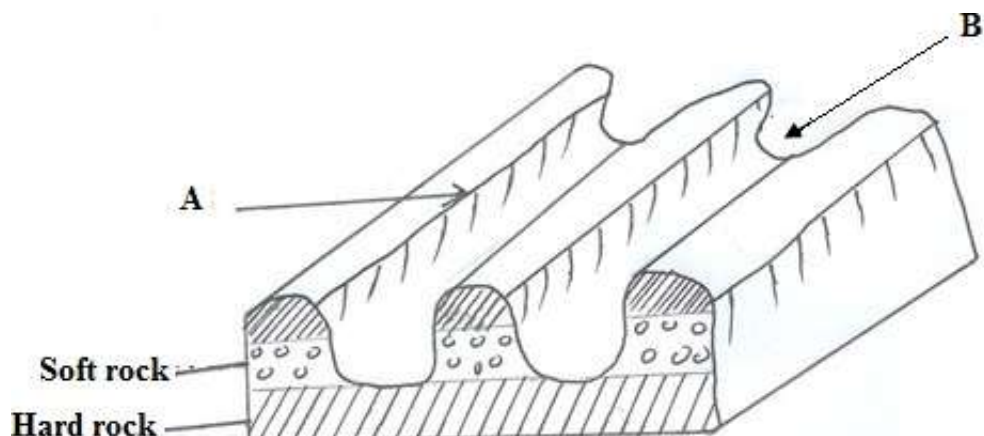
#### SECTION A (25 Marks)

##### Answer all questions in this section

1. a) Differentiate between weather and climate. (2 marks)  
b) State three factors that cause inaccuracy of recording data in a school weather station. (3 marks)
2. a) Define folding (2 marks)  
b) State three factors that influence folding. (3 marks)
3. a) The diagram below represents zones of natural vegetation on a mountain in African. Use it to answer questions that follow.



- Name the vegetation zones marked W, X and Y (3 marks)
- b) State two reasons as to why mountain tops have no vegetation cover. (2 marks)
4. a) What is soil? (2 marks)  
b) Give three factors that determine the colour of soil. (3 marks)
  5. The diagram below represents features on a desert landform, use it to answer the questions that follow.



- a) Label the features marked A and B. (2 marks)
- b) State three factors that influence wind erosion in arid areas. (3 marks)

## SECTION B (75 Marks)

### Answer question 6 and any other two questions in this section

6. Study the map of Busia 1:50,000 (sheet 101/1) provided and answer the following questions.

- a) (i) What is the magnetic variation of the map. (2 marks)
- (ii) What is the bearing of Nyakhobi hill from the trigonometric station SKP 206 near odiado hill. (2 marks)
- (iii) Calculate the area west of the international boundary on the North Western part of the map extract. Give your answer in kilometers. (2 marks)
- b) (i) Using a vertical scale of 1 cm to represent 50 metres draw a cross-section along grid reference 240360 to 300360.

On the cross section mark:- (3 marks)

- i. All weather loose surface road C529. (1 mark)
- ii. A river (1 mark)
- iii. Main track (motorable) (1 mark)

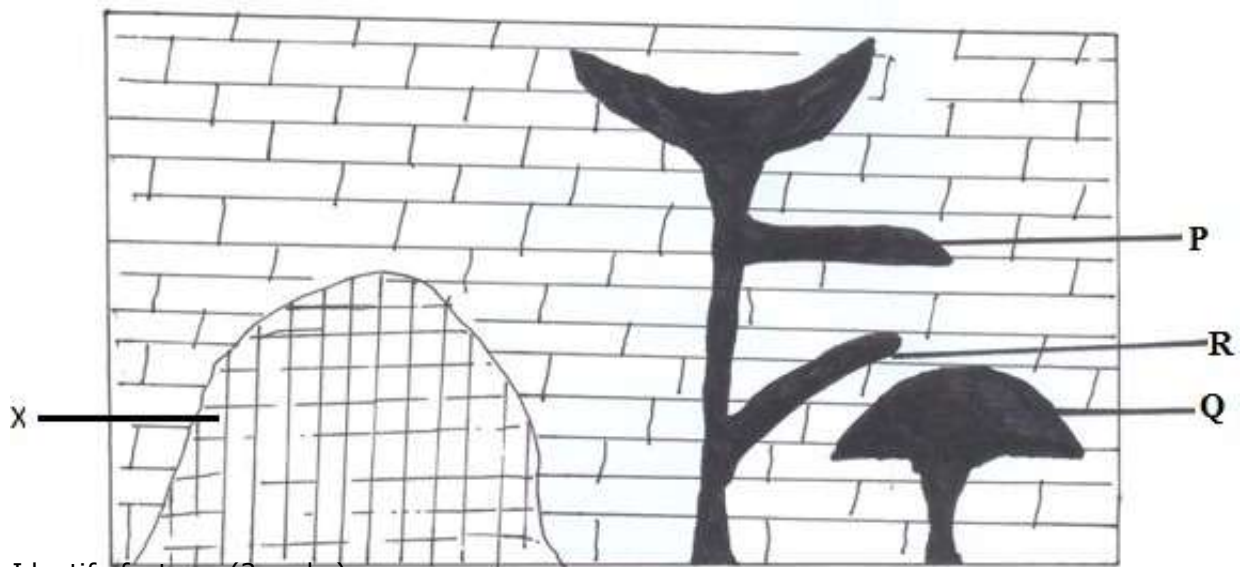
(ii) Calculate the vertical exaggeration of your cross-section (2 marks)

c) Describe the drainage of the area covered by the map. (5 marks)

- d) (i) Citing evidence from the map identify two economic activities carried out in the area covered by the map. (2 marks)
- (ii) Describe how relief has influenced settlement in the area covered by the map. (4 marks)

7. (a)(i) What is astronomy. (1 mark)
- (ii) Apart from the sun and the planets, name other four heavenly bodies that make up the solar system. (4 marks)
- b) What is the local time at Alexandria 300E when the local time at Malindi 400E is 12.00 noon? (2 marks)

- c) Highlight four effects of the rotation of the earth on its own axis. (4marks)
- d) Describe four proofs that have been advanced to support the fact that the earth is spherical (8 marks)
- e) Explain three reasons why the interior of the earth is very hot. (6 marks)
8. a) Differentiate between river capture and river rejuvenation. (2 marks)
- b) Describe three processes by which a river transports its load. (6 marks)
- c) Explain three positive influence of rivers and their features to human activities. (6 marks)
- d) Students from Masaku high school intends to carry out a field study of a river in its upper stage.
- i. Name two feature they are likely to study. (2 marks)
- ii. Give two reasons why they would need a route map. (2marks)
- iii. State three reasons why it would be necessary to visit the area before the day of the study (3 marks)
- iv. List two problems they are likely to experience during the study. (2 marks)
- v. Give two follow up activities the students were involved in. (2 marks)
9. a) Name the type of rock which result from metamorphism of
- i. Granite (1 mark)
- ii. Clay (1 mark)
- b) Distinguish between plutonic and volcanic rocks. (2 marks)
- c) Describe two ways in which sedimentary rocks are formed. (4 marks)
- d) Explain four ways in which rocks contribute to the economy of Kenya. (8 marks)
- e) Suppose you were to carry out a field study of rocks within the vicinity of your school.
- i. State two objectives for your study. (2marks)
- ii. Name two secondary sources of information you would use to prepare for the study. (2 marks)
- iii. State three activities you would carry out during the field study. (3 marks)
- iv. State two importance of designing a working schedule for field work. (2 marks)
10. a) Define the following terms.
- i. Seismic focus (1 mark)
- ii. Epicentre (1 mark)
- iii. Give three natural causes of earthquakes. (3 marks)
- iv. Name three major earthquake zones of the world. (3marks)
- b) Use the diagram below of intrusive features of vulcanicity to answer the questions that follow.



i. Identify features (3marks)

X

P

R

ii. Describe how feature Q is formed. (6marks)

c) Explain four ways in which volcanic features positively influence human activities. (8 marks)