

# FORM FOUR CLUSTER KCSE MODEL5

## GEOGRAPHY PAPER 1 QUESTIONS

### SECTION A: (25 Marks)

#### Answer all questions

- What is orogenesis? (2marks)
  - Name 3 fold mountains in Africa. (3marks)
- Differentiate between soil profile and soil catena. (2marks)
  - Give 3 characteristics of desert soils. (3marks)
- State two ways in which rocks may become metamorphic. (2marks)
  - Complete the table below. (3marks)

Original rock	Metamorphic rock
Clay	.....
Granite	.....
.....	Diamond

- Give 3 reasons why some lakes are saline. (3marks)
  - Give 2 characteristics of crustal warping lakes (2marks)
- If the local time at Nairobi at longitude 37°E is 7.00am, what will be time in Younde 120°W. (2marks)
  - What is the effect of international dateline on time. (1mark)
    - Giving an example, define a great circle. (2marks)

### SECTION B (25 Marks)

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

- Study the map of Migwani (1:50,000 sheet 151/1) provided and answer the following questions.
  - Give a six figure grid reference for the trigonometric station to the South-West of the area covered by the map. (1mark)
    - Measure the length of the dry weather road D 502 to where it leaves the map. Give the answer in kilometres. (2marks)
  - What is the bearing of Kamtungu school from the trigonometric station SKT 33 (2marks)
    - What is the latitudinal extend of the area covered by the map. (2marks)
  - Students from Yoonye school carried out the field study in area covered by the map.

i) What is reconnaissance survey. (2marks)

ii) Citing evidence from the map, name 3 economic activities the students are likely to have identified during this study. (3marks)

d) Describe the relief in the area covered by the map. (3marks)

e) Draw cross – section to represent the area along northing 80 and between eastings 91 and 96 on your cross-section draw and label. (3marks)

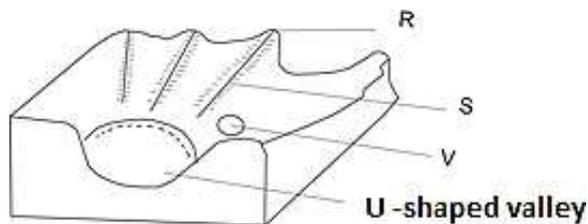
i) All weather road C94 and a hill. (2marks)

ii) Calculate the gradient of the cross-section. (2marks)

iii) Are the end points of your cross-section intervisible? Show proof (2marks)

f) From the marginal information, calculate the magnetic declination at the sheet centre as at January 1980. (1mark)

7. The block diagram below shows the features resulting from glaciating in a lowland region. Use it to answer question a).



a) Name the features marked R, S and V. (3marks)

b) Explain 3 conditions that may lead to glacial deposition in lowlands. (3marks)

c) Describe the process involved in the formation of i. Moraine dammed lake. (4marks)

ii. Corrie lake. (5marks)

d) Supposing you are to carry out field study land use in glaciated lowlands.

i. Apart from conducting oral interview, state four other methods that you would use to collect information. (4marks)

ii. State 3 advantages of using oral interview to collect data during a field study. (3marks)

iii. State 3 possible land uses you are likely to identify during the field study. (3marks)

8. a) Name two types of submerged Coasts. (2marks)

b) Explain how the following factors determine the effectiveness of wave erosion along the Coast.

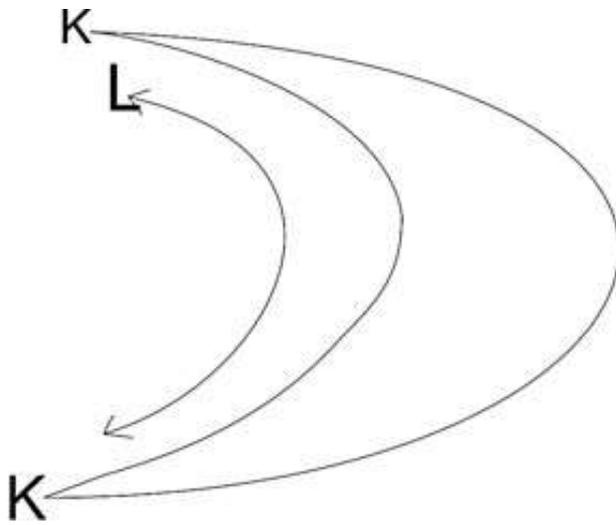
i) Nature of materials transported by waves. (3marks)

ii) Nature of Coastal rocks. (3marks)

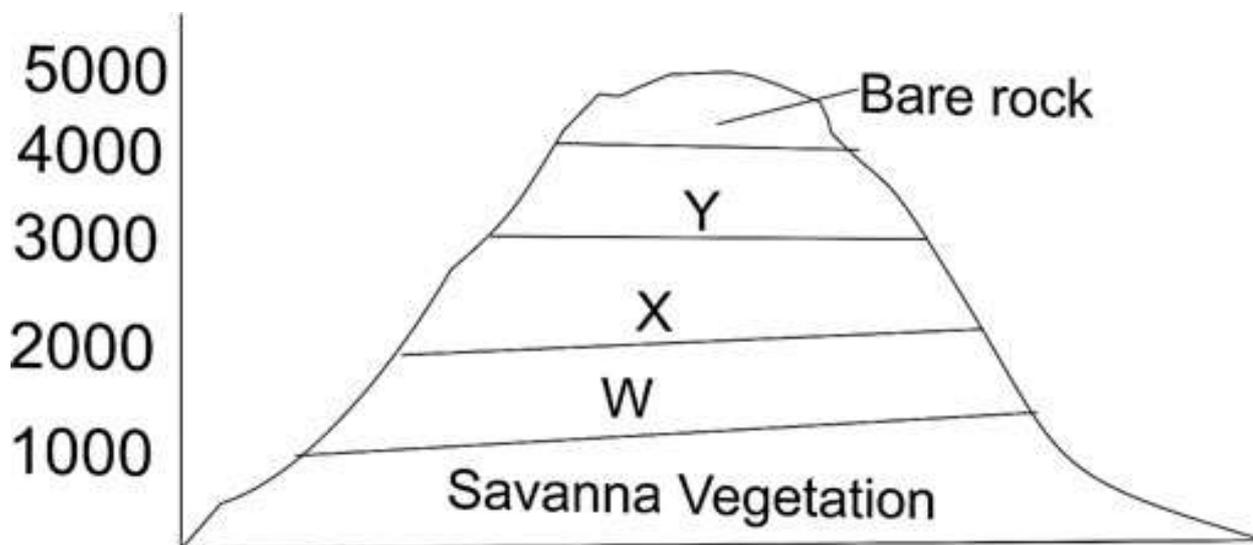
c) With the aid of well labelled diagrams describe the process through which a stack is formed. (4marks)

d) i) State and explain any four negative effects of vulcanicity. (8 marks)

- ii) State what determines the size and shape of organic features. (2 marks)
  - iii) List the tectonic boundaries. (3 marks)
9. a) i) Name any 3 desert surfaces. (3marks)
- ii) Given two reasons why wind action is predominant in hot deserts. (2marks)
- b) Using well labelled diagrams, explain how the following features are formed.
- i. Yardangs (4marks)
  - ii. Rock pedestal (4marks)
- c) i. The diagram below shows a barchan. Name the feature marked L, K (2marks)



- ii. Give any 3 characteristics of a barchan. (3marks)
- d) i. State 3 conditions necessary for Karst scenery to form. (3marks)
- ii. Differentiate between a grike and clint. (2marks)
  - iii. Give any two significance of Karst scenery. (2marks)
10. The diagram, below represents zones of natural vegetation on mountain in Africa. Use it to answer question a i and ii



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

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

iii) Name the temperate grasslands found in the following countries a. Canada (1mark)

b. Russia (1mark)

c. Australia (1mark)

a) Explain the causes of decline of the areas under forest in Kenya. (6marks)

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

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

ii. Give four problems you are likely to identify during the study.