

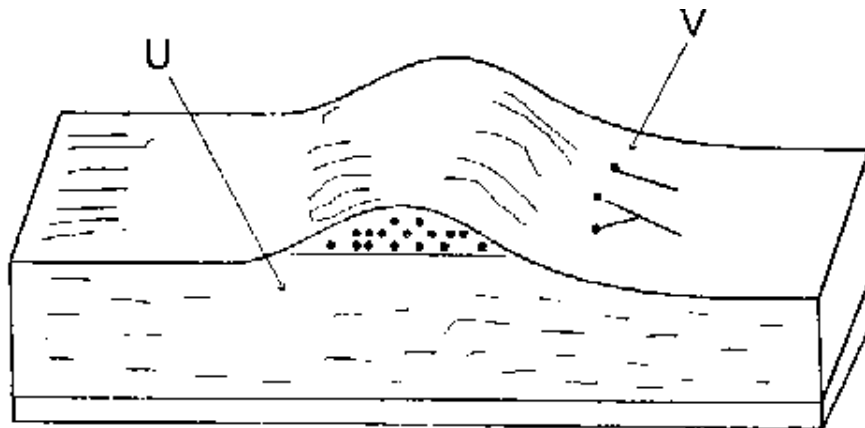
KIAMBU WEST INTERZONAL EXAM

Kenya Certificate of Secondary Education

SECTION A

Answer all questions in this section

1. a) List two parts of the atmosphere in a descending order. (2mks)
b) (i) What is the effects of the international data line. (2mks)
(ii) If the local time at station B is 8.00 a.m and time at Greenwich Meridian is noon(12.00) Calculate the longitude at station B (2mks)
2. a) What is a Stevenson screen?(2mks)
b) State 2 qualities that make Stevenson’s screen suitable for its work.(2mks)
- 3 a) Name two processes involved in soil formation(2mks)
4. a) State two factors which cause ocean current(2mks)
b) Name 3 types of tides(3mks)
- 5 Study the diagram below and use it to answer the questions that follow.

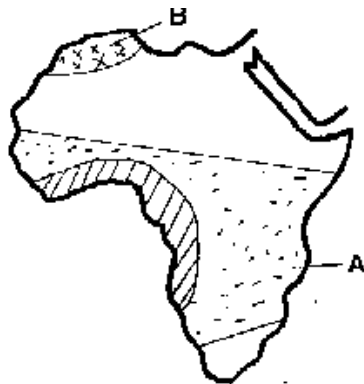


- a) Name the parts marked U and V (2mks)
- b) State three conditions necessary for the formation of grikes and clints.(3mks)

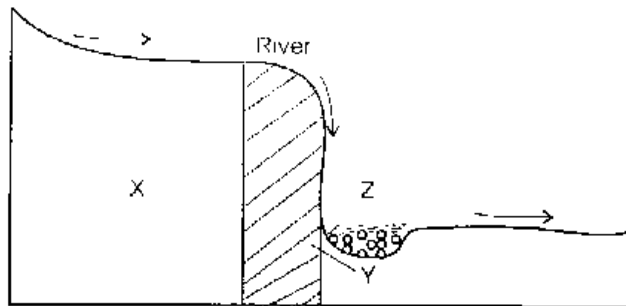
SECTION B

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

6. Study the map of Taita Hills (1:50,000) sheet 189/4 provided and answer the following questions.
- a) (i) What is the approximate height of the peak of Mgange hill?(1mk)
- (ii) Give the six figure grid reference of the water tank at kirutai(2mks)
- (iii) What is the distance in kilometers of Choke forest boundary?(3mks)
- b) (i) With evidence give three functions of Wudanyi town apart from trade.(3mks)
- (ii) Citing evidence from the map explain three factors that favour trading in the area covered by the map.(6mks)
- c) Using a vertical scale 1cm to represent 100m
- (i) Draw a cross section along Northing 16 from Eastern 20 to Easting 26.(4mks)
- (ii) On the cross – section mark and label the following:
Forest
Maragua
Road D538 (3mks)
- (iii) What is the gradient along the points of the section you have drawn?(1mk)
- d) Suppose students of Mission Girls High School – Bura carried out a field study on relief in the area covered by the map. Give three types of information for their study.(3mks)
7. a) (i) Distinguish between weather and climate(2mks)
- (ii) State six characteristics of tropical marine climate.(6mks)
- b) Use the map to answer questions b1 and (ii)



- (i) Name the vegetation types marked A and B.(2mks)
 - (ii) Describe six characteristics of the vegetation type marked A(6mks)
- c) State four uses of temperate deciduous forests(4mks)
- d) Students from Kaprongo High School carried out field work on vegetation around their school.
- (i) Give three reasons why it was necessary for the students to have a working schedule.(3mks)
 - (ii) Give two importances of their findings to their school community.(2mks)
8. a) (i) Differentiate between a hot spring and a geyser (2mks)
- (ii) How is a lava plateau formed?(5mks)
- b) (i) Define folding(2mks)
- (ii) With aid of diagrams describe how a Rift Valley is formed by compressional forces.(8mks)
- c) Explain four ways in which volcanic mountains influence the climate (8mks)
9. The diagram below represents a feature formed along the long profile of a river.



- a) (i) Name the feature(1mk)
- (ii) Name the parts marked X, Y, Z (3mks)
- (iii) Differentiate between superimposed and antecedent drainage systems.(4mks)
- b) (i) List four features that result from river rejuvenation(4mks)
- (ii) Students of a certain school planned to conduct a field study along a river. What preparations should they conduct before the actual field trip?(2mks)
- (iii) What problems could the students encounter during the field visit?(3mks)
10. a) (i) Name two deserts found on the western side of continents(2mks)
- (ii) Name three major features of wind deposition in arid and semi arid areas.(3mks)

- b) (i) Name two wind erosional processes responsible for the formation of land forms in arid and semi arid areas.
- (ii) List down the metamorphic rocks that arises from Limestone –Grainite.
- (iii) Differentiate between surface creep and saltation in wind deposition.(2mks)
- c) With aid of a well labeled diagram, describe the formation of rock pedestals(5mks)
- d) Form 4 students from a school in North Eastern Province of Kenya carried out a field study on physical features in the area.
- (i) A part from the inselbergs,name other two features formed by water erosion they may have observed(2mks)
- (ii) State three objectives of their study.
- (iii) Explain two positive effects of the resultant features or landforms in semi-arid and arid areas.(4mks)