

312/1  
GEOGRAPHY  
Paper 1  
July/August 2016  
Time: 2 $\frac{3}{4}$  Hours

## KERICHO WEST FORM 4 JOINT EVALUATION

### Kenya Certificate of Secondary Education

GEOGRAPHY

Paper 1

July/August 2016

Time: 2 $\frac{3}{4}$  Hours

#### INSTRUCTIONS TO CANDIDATES

- \* This paper consists of two sections; A and B
- \* Answer **all** questions in section A
- \* In section B answer question 6 and any other **two** questions.
- \* All answers must be written in the answer booklet provided.
- \* Candidates should answer the questions in English.

### SECTION A :

1. a) Apart from the passing star theory, name two other theories used to explain the origin of the solar system. (2 marks)  
b) Outline three weaknesses of the passing star theory. (3 marks)
2. a) Apart from equatorial rainforest, name two other types of forests that are found in Africa. (2 marks)  
b) Outline three characteristics of equatorial rain forest. (3 marks)
3. a) Name two types of river deltas. (2 marks)  
b) State four conditions that are necessary for the formation of a delta. (4 marks)
4. a) State two ways in which the age of rocks can be determined. (2 marks)  
b) State three characteristics of sedimentary rocks. (3 marks)
5. a) Give two reasons why humus is important in the soil. (2 marks)  
b) Highlight two factors that determine the colour of soil. (2 marks)

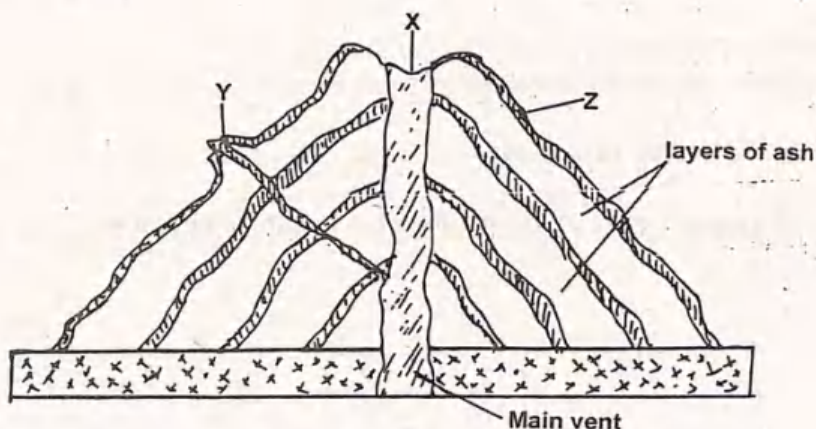
### SECTION B :

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

6. Study the map of Busia (1:50,000) sheet 101/1 provided and answer the questions that follow.
  - a) i) Give the six figure grid reference of the air photo principal point at Kisoko to the North East of the area covered by the map. (2 marks)  
ii) Measure the distance of the all weather road loose surface C529 from the junction at Matayo to Lwanda. Give your answer in kilometres. (2 marks)  
iii) Give the bearing of the trigonometrical station at grid square 3546 from the air photo principal point at grid square 3148. (2 marks)
  - b) i) Outline two ways in which the relief of the area covered by the map has been represented. (2 marks)  
ii) Identify three types of natural vegetation to the East of easting 38. (3 marks)  
iii) Describe the settlement of the area covered by the map. (5 marks)
  - c) i) Using a vertical scale of 1 cm to represent 100m, draw a cross-section between grid reference 230330 and 310330. On the cross section show the following features :
    - river
    - Odiando hill
    - all weather road loose surface(7 marks)  
ii) Calculate the vertical exaggeration. (2 marks)
7. a) i) Define the following terms:
  - A fissure
  - A vent(2 marks)



- ii) The diagram below represents a composite volcano. Name the features marked X, Y and Z. (3 marks)



- b) Describe the formation of a caldera through the following processes :  
 i) Subsidence (4 marks)  
 ii) Explosion (4 marks)
- c) Explain three negative effects of vulcanicity. (6 marks)
- d) Your class intend to carry out a field study on an area recently affected by volcanic activity.  
 i) Give three methods you would use to present your data. (3 marks)  
 ii) Give three disadvantages of using questionnaires to collect data. (3 marks)
8. The table below represents climate for a station in Kenya. Use it to answer the questions that follow.

Months	J	F	M	A	M	J	J	A	S	O	N	D
Temp. °C	29	30	30	30	29.7	29.3	28	28.7	30	30.1	30	29.2
Rainfall (mm)	9	8	21	50	30	9	10	10	14	20	17	11

- a) i) What is the annual range of temperature at the station ? (1 mark)  
 ii) Calculate the total rainfall for the station. Show your calculations. (1 mark)
- b) State four characteristics of the climate experienced in the station. (4 marks)
- c) i) State five factors that contribute to the development of deserts. (5 marks)  
 ii) Give six characteristics of hot desert climate. (6 marks)
- d) Explain four effects of climate change on the physical environment. (8 marks)
9. a) i) State the meaning of a lake. (1 mark)  
 ii) State four reasons why some lakes in Rift Valley are salty. (4 marks)
- b) i) Give two types of lakes formed by river and wave deposition. (2 marks)  
 ii) Describe the formation of faulted or Rift Valley lakes. (6 marks)
- c) Explain any three negative effects of lakes on the environment. (6 marks)
- d) Your class intends to carry out a field study of a lake.  
 i) Name three methods you would use to collect the information. (3 marks)  
 ii) Outline three reasons why a working schedule is necessary. (3 marks)

10. a) i) Distinguish between oceans and seas. (2 marks)  
 ii) Outline four causes of ocean currents. (4 marks)
- b) i) Name three features that result from wave erosion. (3 marks)  
 ii) Explain three processes involved in wave erosion. (6 marks)
- c) Describe the formation of a stump. (4 marks)
- d) Explain three significance of coastal features to human activities. (6 marks)



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