

MANGU MOCK TRIAL 3

GEOGRAPHY

312/1

PAPER 1

TIME: 2¾ HOURS

NAME.....

SCHOOL..... SIGN.....

INDEX NO..... ADM NO.....

Kenya Certificate of Secondary Education.

INSTRUCTIONS TO CANDIDATES.

- (a) Write your name, class and admission number in the spaces provided above.
- (b) Sign and write the date of the examination in the spaces provided above.
- (c) This paper has **two** sections: **A** and **B**.
- (d) Answer **all** the questions in sections **A**.
- (e) Answer question **6** and any other **two** questions from Section **B**.

FOR EXAMINER'S USE ONLY

Section	Questions	Maximum Score	Candidate's Score
A	1 – 5	25	
	6	25	
B		25	
		25	
		Total Score	

SECTION A

Answer all the questions in this section.

- 1) a. Name three components of the solar system (3mks)
b. Give two weakness of the nebular cloud theory (2mks)
- 2) a. What is lunar eclipse (2mks)
b. Give the two dates of the year when **equinoxes** is experienced (2mks)
- 3) a. What is a sea breeze? (2mks)
b. Give the four main zones of the earth's atmosphere (4mks)
- 4) a. Name three man-made lakes in Kenya (3mks)
b. State two reasons why some Rift valley lakes in Kenya have saline water (2mks)
- 5) a. Define the term climate (2mks)
b. Mention any three consequences of climate changes (3mks)

SECTION B

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

6.a. Study the map of **Kisumu East (1:50,000)** Kenya sheet 116/2 provided and answer the following questions.

- i) What is the title of the map? (1mk)
 - ii) identify two types natural vegetation in the area covered by the map. (2mks)
 - iii) Identify three man made features in grid square 0494. (3mks)
- b. i) draw a rectangle to represent the area enclosed by Eastings 04 to 07 and Northings 85 to 87. Enlarge it **twice** marking and naming following features; (5mks)
 - road c544
 - ditch
 - swamp
 - footpath
 - ii) Give the new scale of the enlarged section. (2mks)
- c. i) Calculate the bearing of Ranjira school from the air Photo principal point (04) at grid reference 0986. (2mks)
- d. Identify four drainage features in the area covered by the map. (4mks)
- e. Citing evidence from the map, explain three human factors that are likely to favour agriculture in the area covered by the map. (6mks)

7. (a) (i) Apart from surface run off, give **two** other processes in the hydrological cycle. (2 marks)
- (ii) State **three** factors that determine the amount of surface run off. (3 marks)
- (b) Explain **three** factors that influence the transportation of materials by a river. (6 marks)
- (c) (i) What is river rejuvenation? (2 marks)
- (ii) Explain **three** conditions that lead to rejuvenation of a river. (6 marks)
- (d) Explain **three** negative effects of rivers to the human environment. (6 marks)

8. (a) Name **one** fold mountain in:

- (i) Asia (1mk)
- (ii) North America (1mk)
- (iii) South Africa (1mk)

(b) (i) Apart from fold mountains, name three other features resulting from folding. (3mks)

(ii) With the aid of labeled diagrams, describe the formation of an over thrust fold (5mks)

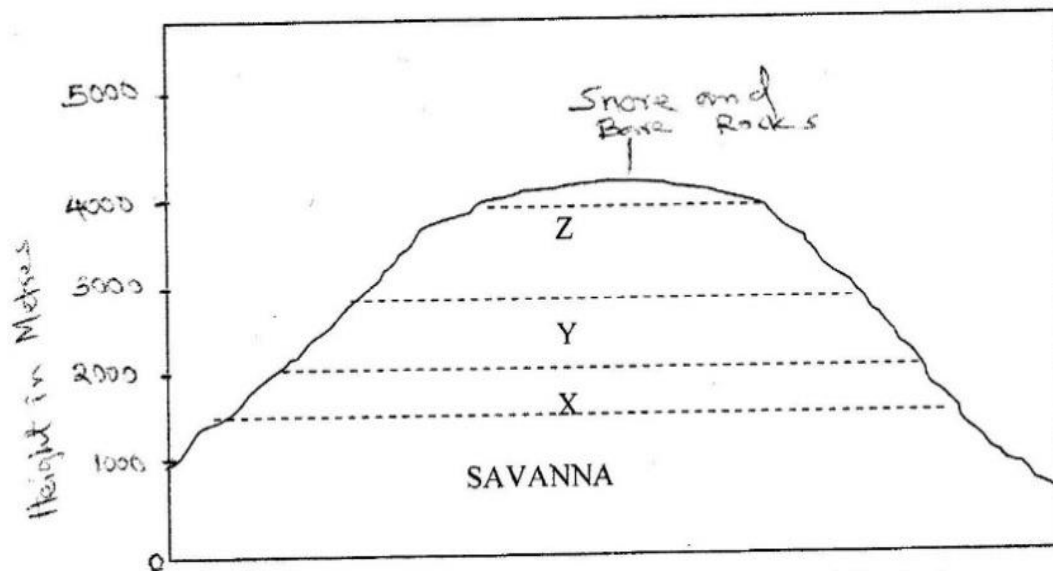
(c) Explain **four** effects of fold mountains on human activities . (8mks)

(d) Students are planning to carry out a field study on landforms in their conty.

(i) State **three** ways in which the students would prepare themselves for the field study.(3mks)

(ii) Give **three** advantages of studying landforms through field work (3mks)

9. The diagram below represents zones of natural vegetation on a mountain use it to answer questions



- (a) (i) In your answer booklet, name the zones marked X, Y and Z (3mks)
- (ii) Describe the characteristics of tropical Savannah vegetation (5mks)
- (iii) State **two** reasons why the mountaintop has no vegetation (2mks)
- (b) Explain **three** factors that have led to a decline of the natural grassland in Kenya. (6mks)
- (c) Suppose you were to carry out a field study on the relationship between vegetation and altitude
- (i) State **three** hypotheses you would formulate for your study (3mks)
- (ii) State **four** methods you would use to record the information collected during the field study (4mks)
- (iii) Name the type of map you would draw to present your findings. (2mks)

- 10(a)** Name two types of submerged coasts (2mks)
- (b) Explain how the following factors determine the effectiveness of wave erosion along a coast
- (i) Nature of the material transported by waves (3mks)
- (ii) Nature of the coastal rocks (3mks)
- (c) With the aid of labeled diagrams, describe the process through which a stack is formed (7mks)
- (d) (i) State four conditions that favour the growth of coral. (4mks)
- (ii) Explain three ways in which coral contributes to the economic development of Kenya. (6mks)