

# KCSE MOCKS

## GEOGRAPHY PAPER 1

**Consists 3 KCSE Mock set Exams.**  
**(Class of KCSE March 2021)**

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FOR MARKING SCHEMES CALL/TEXT/WHATSAPP 0795491185

# PRE-MOCK 1

NAME ..... DATE .....

INDEX NO. .... SIGNATURE .....

312/1  
GEOGRAPHY  
PAPER 1  
TIME: 2  $\frac{3}{4}$  HRS

## KCSE PRE-MOCK 1

*Kenya Certificate of Secondary Education*

### INSTRUCTIONS TO CANDIDATES

1. Write your name and index number in the spaces provided above.
  2. This paper has **TWO** sections: A and B.
  3. Answer **ALL** the questions in section A. In section B answer **QUESTION 6** and any other **TWO** questions from the section.
  4. ALL answers **MUST** be written in the Answer Booklet provided.
  5. Do not remove any pages from this booklet.
  6. This paper consists of 4 printed pages. Candidates should check to ensure that all pages are printed as indicated and no questions are missing
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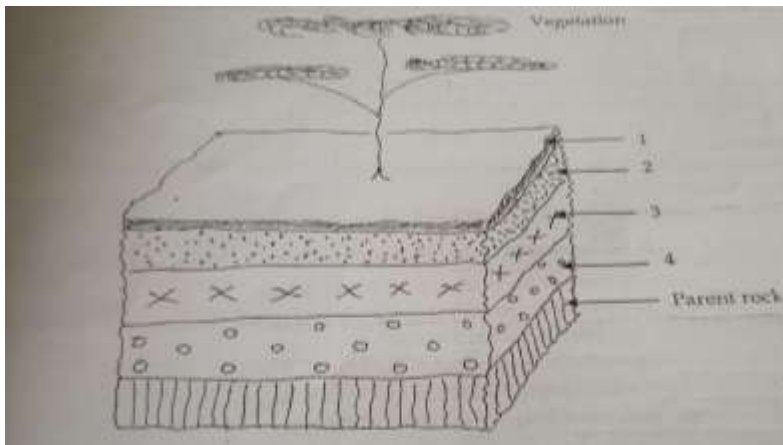
## SECTION A

*Answer all the questions in this section*

1. (a) Explain the relationship between geography and mathematics (2mks)  
(b) When the local time is 2:00 p.m. at longitude  $45^{\circ}E$ , what is the longitude of a place whose local time is 8:00 P.M? (2mks)
2. (a) Give three examples of chemically formed sedimentary rocks (3mks)  
(b) Describe how coral rocks are formed (3mks)
3. (a) List three external land forming processes which leads to formation of Lakes(3mks)  
(b) State two ways in which lakes influence natural environment (2mks)
4. (a) The diagram below shows some of the surface features in a Karst scenery .Use it to answer questions (i) below



- (i) Name the features marked X, Y and Z (3mks)
  - (ii) Name two other features, which form on the surface of a karst scenery (2mks)
5. Study the diagram below showing a soil profile. Use it to answer the questions that Follow



(i) Name the soil layers marked 2, 3 and 4

(3mks)

(ii) Give two factors that influence soil leaching

(2mks)

## **SECTION B**

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

6. Study the Map of Yimbo 1: 50,000 (Sheet 115/1) provided and answer the following questions.

a) i) Convert the representative scale given on the map into a statement scale.

(1mk)

ii) Give the latitude and longitude of the southwest corner of the area covered by the map. (2mks)

iii) Give the magnetic declination as at January 1970?

(1mk)

b) i) What is the height of Usengi hill?

(1mk)

ii) What is the bearing of the Air Photo Principal point on grid reference 3274 from the trigonometrical station on grid reference 3980?

(2mks)

iii) Describe the long profile of River Yala.

(4mks)

c) i) Using a scale of 1cm to represent 20m draw a cross section along northing 99 between easting 16 and 22. (3mks)

ii) On the cross section mark and name the following.

A steep slope

(1mk)

A seasonal river

(1mk)

Thicket vegetation.

(1mk)

iii) Calculate the gradient between grid reference 160990 and 220990.

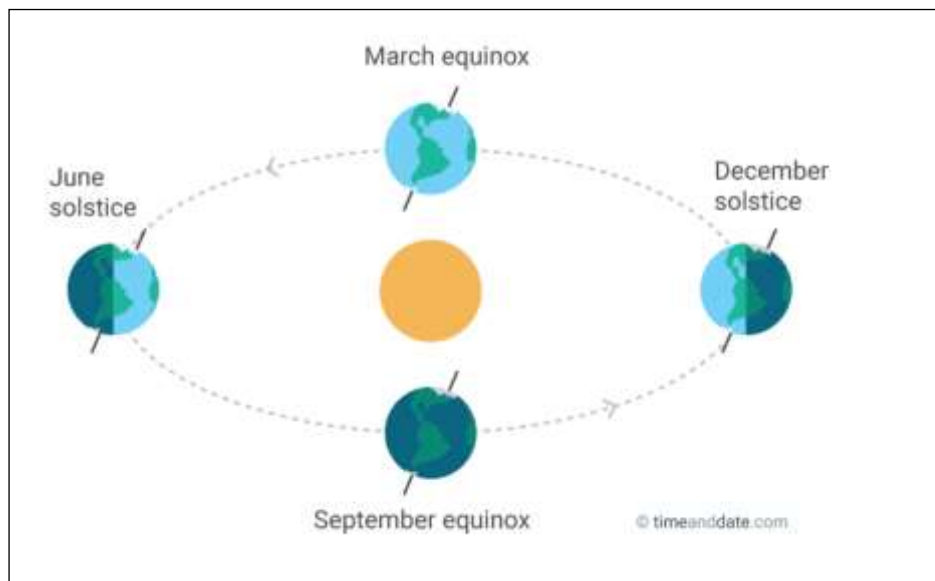
(2mks)

d) Explain **three** physical factors that have influenced the distribution of settlements in the area covered by the map.

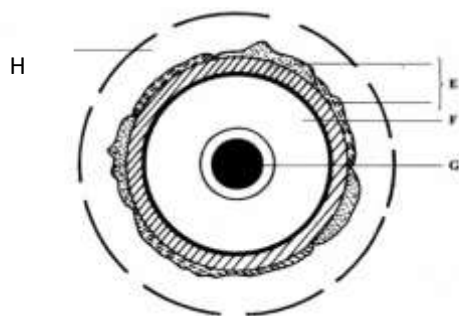
(6mks)

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7. (a) Other than the sun name two other heavenly bodies that makes up the solar system(2mks)
- (b) Explain the origin of the earth according to the passing star Theory (6mks)
- (c) Use the diagram below to answer question (c) i , ii and iii



- (i) Name the solstice marked P. (1mk)
- (ii) Identify the season represented in the region marked Q. (1mk)
- (iii) Which date of the year is the sun overhead at R (1mk)
- (d) Give three reasons why the earth has a spherical shape (3mks)
- (e) State three effects of the rotation of the earth on its axis (3mks)
- (f) The diagram below represents the structure of the earth. Use it to answer question (a)



(a) Name :

(i) The layers marked E, F, G and H

(4mks)

(ii) State four characteristics of the outer core (4mks)

8. a) (i) What is folding? (2mks)

(ii) Name **three** types of folds. (3mks)

(iii) Name **two** orogenies known in geological history. (2mks)

b) (i) Apart from Fold Mountains, name **two** other features resulting from folding. (2mks)

The following map shows the location of fold mountain ranges of the world.



ii) Name the mountain ranges marked **P, Q, R, S** and **T**. (5mks)

(iii) With well-labelled diagrams, use the Plate Tectonics theory to explain the formation of Fold Mountains. (5mks)

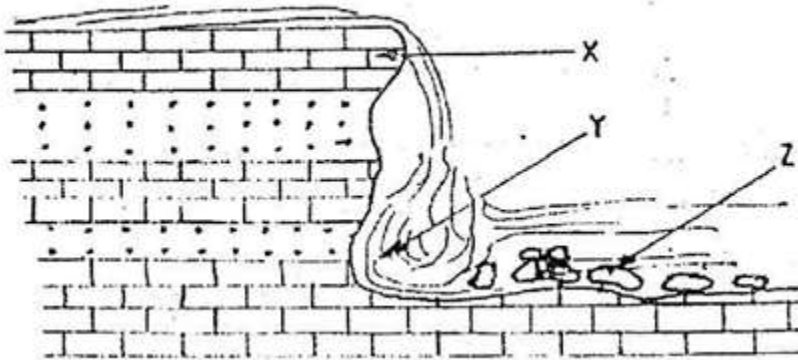
c) Explain **three** ways in which folding influence human activities. (6mks)

9. a) i) Using a well-labeled diagram, show the main processes of the hydrological cycle. (5mks)

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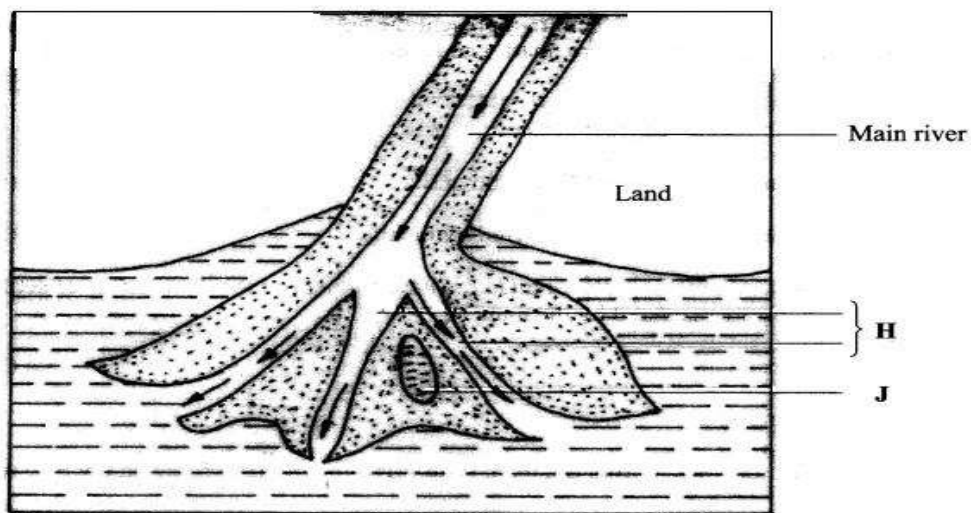
ii) Differentiate between a watershed and a catchment area. (2mks)

b) i) The diagram below shows a waterfall. Name the features marked X, Y and Z. (3mks)



ii) State three ways in which a waterfall may form. (3mks)

b) The diagram below shows a type of a delta. Use it to answer the questions below.



i) Name the type of the delta shown above (1mk)

ii) Identify the features marked **H** and **J**. (2mks)

iii) Describe the formation of the delta shown above. (3mks)

e) You are planning to carry out a field study on the lower course of a river

i) Give **two** reasons why you would require a route map (2mks)

ii) State **two** activities you would carry out to determine why deposition occurs at this stage

(2mks)

iii) State **two** follow- up activities you would be involved in after the field study ( 2mks)

10. a) i) What is an ice sheet?

(2mks)

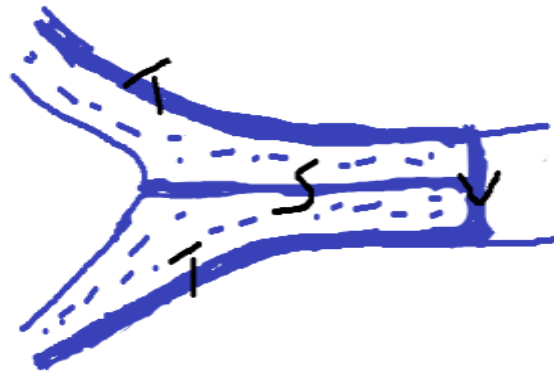
ii) Give two reasons why there are no ice sheets in Kenya.

(2mks)

b) Describe how a pyramidal peak is formed.

(5mks)

c) The diagram below shows types of moraines in a valley glacier.



i) Name the type of moraine marked S, T and V.

(3mks)

ii) Explain **three** effects of glaciated landscape in upland areas on human environment. (6mks)

d) Students from a school near Mt. Kenya were planning to carry out a field study on the glaciated features on the mountain.

(i) Give **three** reasons why it would be difficult to undertake the field study on glaciated features on the Mountain.

(3mks)

(ii) Describe how the students would use a photograph of Mt. Kenya to identify the glaciated features on the Mountain.

(2mks)

iii) Give **two** types of glaciers they would identify during your study.

(2mks)

# MOCK 1

## GEOGRAPHY

312/1

FORM FOUR

NAME.....ADM.....

### INSTRUCTIONS TO CANDIDATES

*1 Write your name and admission number in the space provided above.*

*2 This paper has two sections A and B answer all questions in Section A.*

*3 Answer question 6 and any other two questions from section B.*

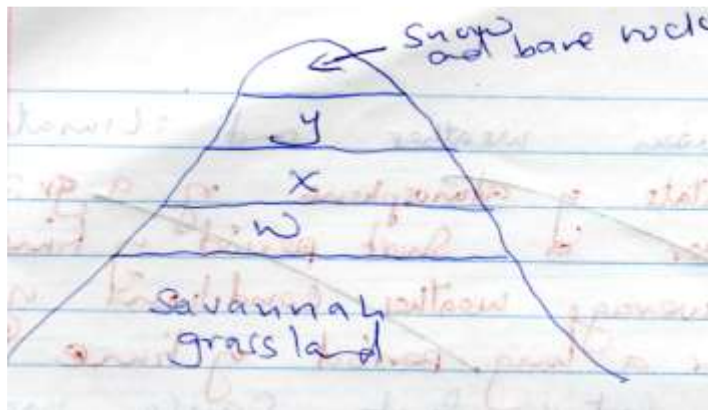
*4 Candidates should answer the questions in English.*

### FOR EXAMINERS USE ONLY

| SECTION | QUESTIONS | MAXIMUM SCORE | CANDIDATES SCORE |
|---------|-----------|---------------|------------------|
| A       | 1-5       | 25            |                  |
| B       |           | 25            |                  |
|         |           | 25            |                  |
|         |           | 25            |                  |
|         |           | TOTAL SCORE   |                  |

## SECTION A

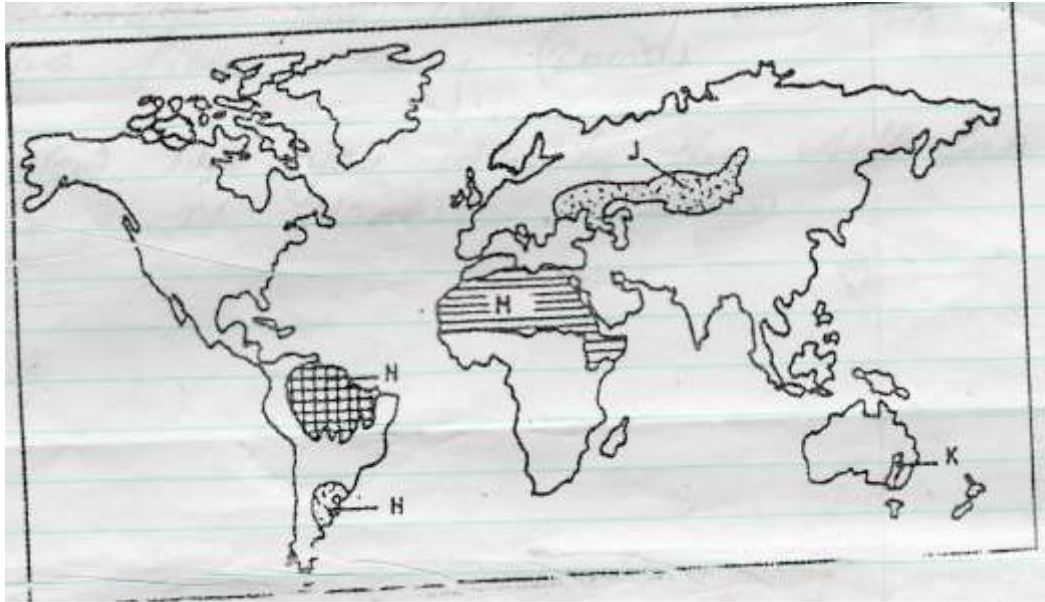
1. (a) Differentiate between weather and climate. (2 mks)  
(b) State three factors that cause inaccuracy of recording data in a schools weather station. (3 mks)
2. (a) What is folding (2 mks)  
(b) State three factors that influence folding. (3 mks)
3. The diagram below shows arrangement of vegetation on a mountain .



- (a) Identify the vegetation zones marked. (3 mks)  
W-  
X-  
Y-
  - (b) Give reasons why mountain tops have no vegetation. (2 mks)
4. (a) Define the term soil. (2 mks)  
(b) State three factors that determine colour of the soil. (3 mks)
  5. (a) Name two features due to wind erosion in the desert. (2 mks)  
(b) State three factors influencing wind erosion in the deserts. (3mks)

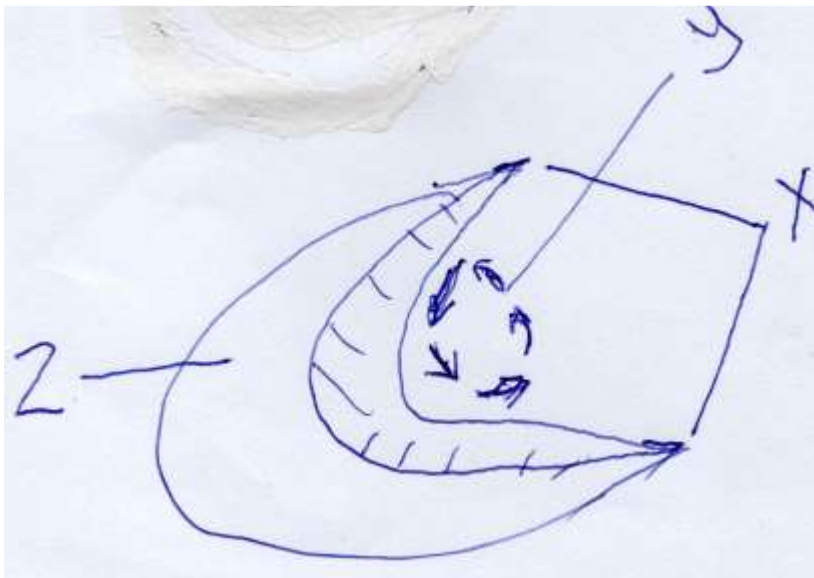
## **SECTION B**

6. Study the map of YIMBO 1:50,000(sheet 115/1) provided answer the following questions.
- a.) i.) Convert the representative fraction scale given on the map to a statement scale (2 mks)
- ii.) Identify three Districts that are covered by the Yimbo map (3 mks)
- b.) i.) Give the exact height of Usengi hill (1 mk)
- ii.) with evidence from the map, give any two social services that are offered in the area covered by the map (2 mks)
- c.) i.) Using a scale of 1 cm represents 20 m, draw a cross section from grid reference 320790 to grid reference 390790 (4 mks)
- ii.) On the cross section, mark and name the following:-
- A lake (1 mk)
  - Main track (motorable) (1 mk)
  - A river (1 mk)
- d.) i.) Describe the relief of the area covered by the map (4 mks)
- ii.) Explain three factors that have influenced settlement in the area covered by the map (6 mks)
7. The map below shows some vegetation of the world. Use it to answer (a) to (c)



- a) Name the temperate grasslands marked H, J and K (3mks)
  - b) Describe the characteristics of the natural vegetation found in the shaded area marked N. (6 mks)
  - c)
    - (i) Explain four ways which the vegetation found in the area marked M adopts to the environmental conditions of the region. (8 mks)
    - (ii) Give two reasons why the Tundra region has scanty vegetation. (2 mks)
  - d) You are required to carry out a field study of the vegetation within the local environment.
    - (i) Apart from identifying the different types of plants, state three other activities you will carry out during the field study. (3 mks)
    - (ii) How will you identify the different types of plants? (3 mks)
8. (a) (i) Define the term glacier (2 mks)
- (ii) State three ways in which glacier moves. (3 mks)
- (b) (i) Describe the following processes of glacier erosion.
- Abrasion (3 mks)
- Plucking (3 mks)
- c) Describe how a pyramidal peak is formed. (6 mks)
- d) Explain four positive effects of glaciations in the lowland areas. (8 mks)

9. a) i) Differentiate between weathering and mass wasting. (2 mks)
- ii) Give four factors that influence the rate of weathering. (4 mks)
- iii) Name four processes of mechanical weathering. (4 mks)
- b) Explain how the following contribute to biological weathering.
- Animals (2 mks)
  - Man (2 mks)
- c) i) What is mass movement? (2 mks)
- ii) Give three types of rapid mass movement. (3 mks)
- d) Explain three positive effects of weathering on human activities. (6 mks)
10. (a) i) Name three types of desert surfaces (3 mks)
- ii) Explain three ways in which wind transports materials in the deserts. (6 mks)
- (b) The diagram below represents a barchans. Use it to answer the question (3mks)



X-----

Y-----

Z-----

- (c) By aid of well labelled diagram, describe how the rock pedestal is formed. (5 mks)
- (d) Explain four ways in which desert features are of significance to human activities. (8 mks)

# POST MOCK 1

Name .....Adm no..... class.....

312/1

**GEOGRAPHY**

**Paper 1**

**Time: 2 ¾**

**HOURS**

**KCSE POST MOCK 1**

**Kenya Certificate of Secondary Education (K.C.S.E)**

## **INSTRUCTIONS TO CANDIDATES**

- This paper has Two sections: A and B
- Answer ALL the question in section A.
- In section B answer question 6 and any other two questions
- All answer must be written in the spaces provided
- Candidates should check the question paper to ascertain all pages are printed

## **SECTION A**

**Answer all questions in section A.**

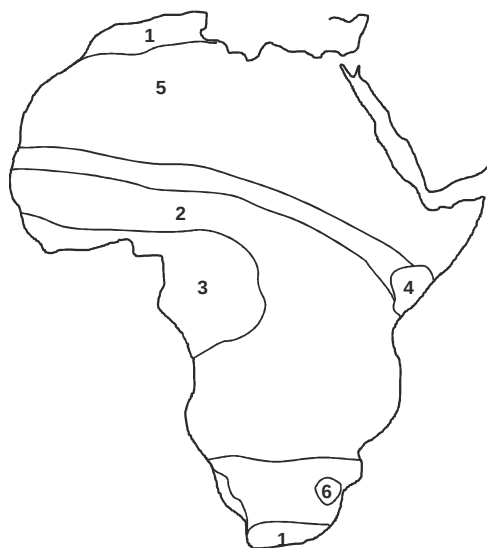
1. (a) State two major areas covered under physical geography. (2 marks)  
(b) State two reasons why interior of the earth is very hot. (2 marks)
2. (a) What is a line of longitude? (2 marks)  
(b) What is the local time at Alexandria 30°E when the local time at Malindi 40°E is 12.00 noon? (2 marks)
3. (a) State three causes of earth movement. (3 marks)  
(b) Name two main earthquake zones in the world. (2 marks)
4. (a) Name three features found on emerged highland coast. (3 marks)  
(b) State three conditions necessary for the formation of a spit. (3 marks)
5. (a) Highlight any three factors that necessitate the occurrence of an artesian basin. (3 marks)  
(b) Apart from lakes, rivers and sea, name any other two sources of underground water. (3 marks)

## **SECTION B**

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

6. Study the map of Yimbo provided below and answer the questions that follow.
  - (a) (i) Name two countries covered by Yimbo (2mks)  
(3 marks)
  - (ii) What is the bearing of Trigonometrical station in grid square 3285 from trigonometrical station in 3980. (2 marks)
  - (iii) convert the ratio scale 1:50000 used in the map to linear scale. (2mks)
  - (b) (i) Give latitudinal extend of the area covered by the map. (2mks)
  - (ii) What is the magnetic variation of the map as at now (year 2020) (2 marks)
  - (iii) Identify three human made features found in the grid square 3691 (3mks)
  - c) Describe the drainage of the area covered by the map. (6mks)
  - d) Giving evidence from the map. Explain three reasons why dairy keeping is not practiced in the area covered by the map. (6mks)
7. (a) (i) Distinguish between earth rotation and earth revolution (2 marks)  
(ii) State three effects of earth's revolution (3 marks)
- (b) (i) Give four characteristics of mesosphere in the structure of the atmosphere (4 marks)  
(ii) Describe the origin of continents according to continental drift theory (4 marks)
- (c) (i) Explain three proofs that the earth is spherical (6 marks)
- (d) Using a well labeled diagram, describe the occurrence of lunar eclipse (6marks)

8. (a) Study the map of Africa showing the main climatic regions marked 1,2,3,5 and 6.



- (i) Name the climatic regions labeled 1,2 and 5. (3 marks)
- (ii) State five characteristics of the climatic regions labeled 5. (5 marks)
- (iii) Name three factors that influence the climatic region labeled 1 (3 marks)
- (b) (i) Name three water towers in Kenya. (3 marks)
- (ii) Give five measures being taken to conserve forests in Kenya. (5 marks)
- c) Describe six vegetation adaptations in Sahara and Namib. (6 marks)
9. (a) Differentiate between mass wasting and weathering. (2 marks)
- (b) (i) Apart from soil creep, name two other processes of slow mass movement. (2 marks)
- (ii) Explain three causes of soil creep. (6 marks)
- (iii) Explain three physical conditions that influence landslides. (3 marks)
- c) Describe the following processes of mass wasting.
- (i) Rock fall. (2 marks)
- (ii) Subsidence (2 marks)
- (iii) Mud flows (2 marks)
- (d) Explain the effect of weathering on the following.
- (i) Tourism (2 marks)
- (ii) Agriculture (2 marks)
- (iii) Pottery. (2 marks)
10. (a) (i) Define the term glaciation. (2 marks)
- (ii) Name three types of glaciers. (3 marks)
- (b) Describe how the following features found in upland glaciated landscapes are formed.
- (i) U-Shaped valley (5 marks)
- (ii) Pyramid peak. (5 marks)
- c) Explain three significance of upland glaciated features to human activities. (6 marks)
- (d) Suppose you were to carry out a field study of a glaciated lowland.
- (i) State two advantages of using oral inter views to collect information during the field study. (2 marks)
- (ii) Name two features found in glaciated lowlands that you are likely to study. (2 marks)

