

# EXTERNAL LAND FORMING PROCESSES

## WEATHERING

1. 1998 Q 7

(a) (i) What is the difference between weathering and mass wasting

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(ii) List five processes involved in chemical weathering

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(b) Explain five ways in which soil creep occurs

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(c) Describe three effects of soil creep

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**2. 2001 Q 3**

(a) What is mechanical weathering?

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(b) How is an exfoliation dome formed?

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**3. 2004 Q 3b**

b) Describe carbonation as a process of Chemical weathering  
(3 marks)

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**4. 2006 Q 2**

Give two processes involved in each of the following types of weathering

(a) Physical weathering  
(2 marks)

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(b) Chemical weathering  
(2 marks)

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**5. 2011 Q 2**

a) What is weathering?  
(2 marks)

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b) Give three factors that influence the rate of weathering  
(3 marks)

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**6. 2012 Q8a-c**

(a) Explain the following processes of weathering:

(i)- Hydration;

(2 marks)

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(ii) oxidation;

(2 marks)

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(iii) frost action.

(3 marks)

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(b) Describe how an exfoliation dome is formed.

(6 marks)

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(c) Explain **three** physical factors that enhance movement of materials along a slope due to gravity.

(6 marks)

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**MASS WASTING**

1. 1997 Q 4

a) What is mass wasting?

(1 mark)

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b) State five factors which influence mass wasting.

(5 marks)

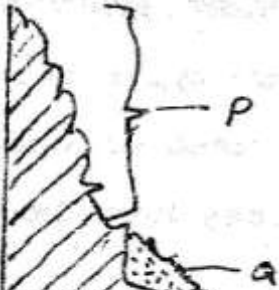
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2. 2003 Q 3

a) State two conditions which may influence the occurrence of landslides

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b) Using the diagram (in question paper), name



(i) The type of mass movement shown

(ii) The features marked P and Q

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**3. 2007 Q 10**

(a) (i) What is the difference between weathering and mass wasting?

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(ii) Apart from plants, give three other factors that influence the rate of weathering

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(iii) Explain two ways in which plants cause weathering

(4 marks)

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(2 marks) (b) (i) List two types of mass wasting other than soil creep

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(6 marks) (ii) Explain three factors that cause soil creep.

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(8 marks) (c) Explain four effects of mass wasting on the environment.

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**4. 2009 Q 7b-d**  
(2 marks) (b)(i) What is mass wasting?

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(2 marks) (ii) Give processes of slow mass movement.

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(2 marks) (iii) State two physical conditions that may influence landslides

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(2 marks) (c) Describe the following processes of mass wasting:  
(i) rock fall

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(2 marks) (ii) subsidence:

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(2 marks) (iii) mud flows

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(d) Explain the effect of mass wasting on the following:

(i) Tourism

(2 marks)

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(ii) Soil fertility.

(2 marks)

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**5. 2012 8d P2**

(d) (i) Give two processes of rapid mass movement.

(2 marks)

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(ii) State **four** indicators of occurrence of soil creep in an area.

(4 marks)

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## **THE HYDROLOGICAL CYCLE**

**1. 1997 Q 2**

a) Draw a well labelled diagram of the hydrological cycle  
(5 marks)

b) State two ways in which underground water may reach the surface of the earth  
(2 marks)

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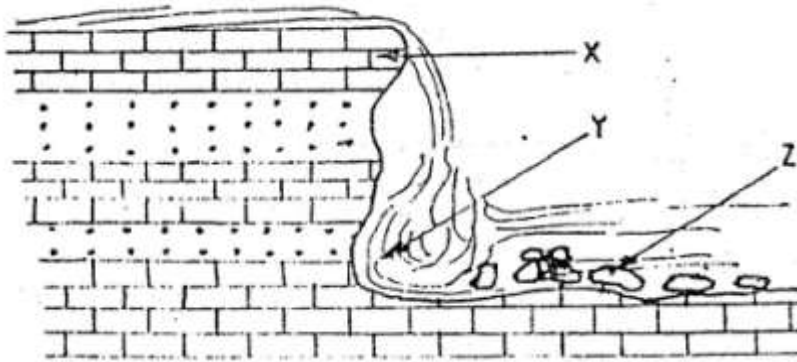
**2. 2000 Q 2**

(a) State two factors which influence the occurrence of surface run- off

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(b) The diagram below shows a waterfall. Name the feature marked X, Y and Z

Z



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**3. 2004 Q 8a-c**

a) State four factors that determine the amount of surface run off  
(4 marks)

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b) Describe three ways in which a river transports its load  
(6 marks)

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c) Using diagrams, describe the following drainage patterns  
i) Dendritic  
(2 marks)

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ii) Trellis  
(2 marks)

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iii) Centripetal

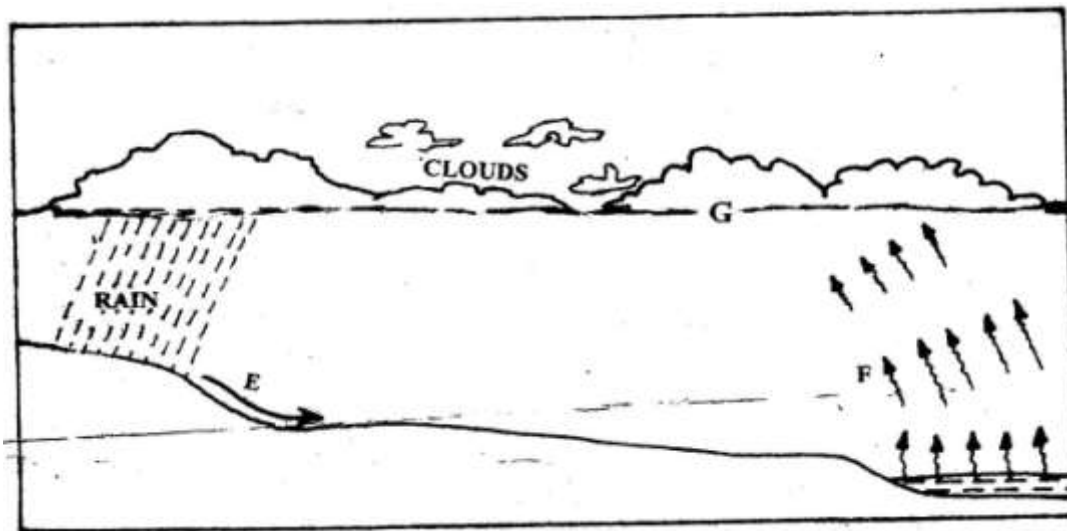
(2 marks)

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4. 2005 Q 2

(a) The diagram below shows the hydrological cycle. Name the stages marked E, F, and G

(3 marks)



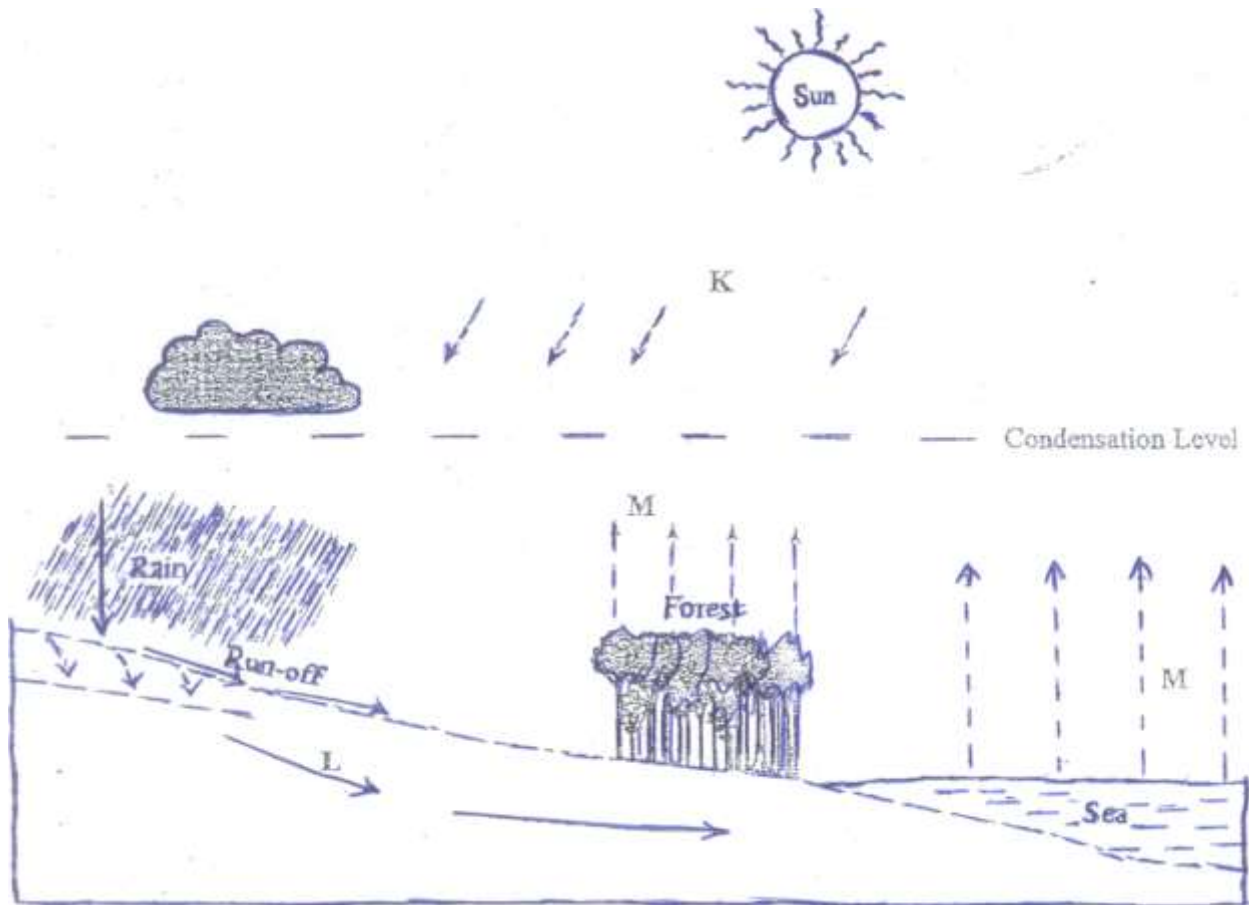
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(b) Differentiate between watershed and a catchments area  
(2 marks)

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5. 2009 Q 7a.

The diagram below shows a hydrological cycle.



(i) What do the arrows labeled K, L and M on the cycle represent?  
(3 marks)

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(ii) Explain three factors that influence the occurrence of surface run-off  
(6 marks)

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**6. 2010 Q 2.**

(a) Identify **two** types of high level clouds.  
(2 marks)

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(b) Draw a well labelled diagram of a hydrological cycle.  
(5 marks)

## ACTION OF RIVERS

**1. 1992 Q 4**

(a) What is a river catchment

(2 marks)

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(b) State three conditions which lead to the rejuvenation of a river

(3 marks)

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(c) Explain how a river capture occurs

(8 marks)

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**2. 1996 Q 7**

a) i) What is river divide?

(6 marks)

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ii) Describe three ways by which a river transports its load

(6 marks)

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b) Describe the characteristics of a river in its old age  
(7 marks)

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c) Describe each of the following drainage patterns  
i) Superimposed drainage pattern  
(3 marks)

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ii) Centripetal drainage pattern  
(2 marks)

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**3. 1997 Q 6b,c ( GEO PP 2)**

b) i) Name two rivers in Kenya which cause large scale flooding

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ii) Explain four ways in which people are affected by floods

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c) Explain three methods which floods can be controlled.

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**4. 1998 Q 4**

(a) Name the type of delta found at the mouth of

(i) River Nile

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(ii) River Omo

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(b) State three conditions that are necessary for the formation of delta

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**5. 1999 Q 8**

(a) Describe how a river erodes its channels by the following process.

(i) Hydraulic action

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(ii) Abrasion

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(b) (i) Explain three factors that lead to rejuvenation of a river

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(ii) Describe the process of a river capture.

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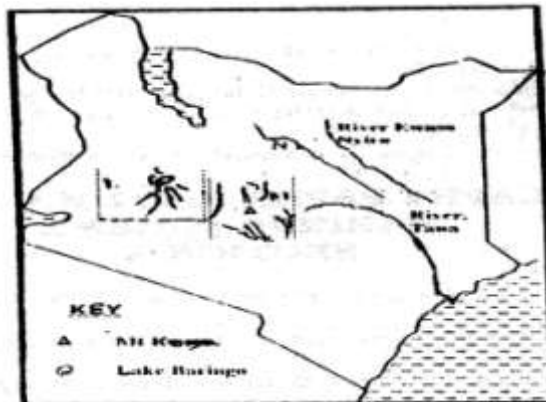
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The map below shows some drainage patterns of some river systems in Kenya. Use it to answer questions (c) (i)



(c) (i) Identify the drainage patterns labelled I, M and N

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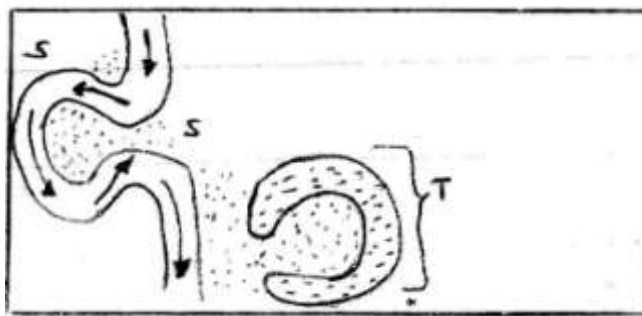
(ii) Describe the formation of a braided drainage pattern

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6. 2001 Q 5

(a) What are natural levees?

(b) The diagrams below show a section of a river. Use it to answer the questions that follow.



KEY  
→ RIVER CURRENT  
S RIVER DEPOSITS

(i) At what stage development is this section of the river?

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.....

(ii) Name the natural process that takes place at the part marked S

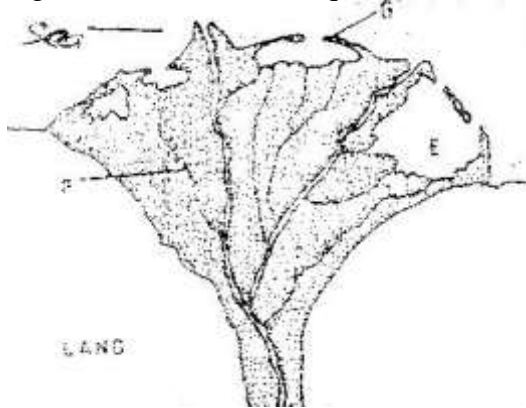
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(iii) Name the feature marked T.

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**7. 2002 Q 2**

Use the diagram below to answer question (a)



a) i) What type of a delta is represented by the diagram?

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ii) Name the features marked E, F, and G.

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b) State two conditions necessary for the formation of a delta.

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**8. 2003 Q 1**

a) State TWO factors that influence the rate of erosion by the river in its upper course.

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b) (i) Define river rejuvenation

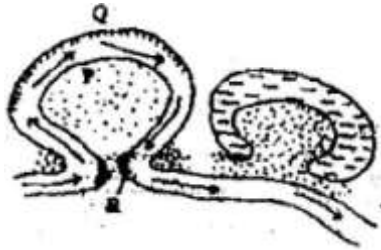
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(ii) Name two features that result from river rejuvenation

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9. 2006 Q 7a-c

The diagram below shows river Manderla. Use it to answer question ( a)



(a) (i) Name the process that take place at each of the points marked P and Q.  
(2 marks)

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(ii) Name the feature formed at the point marked R  
(1 mark)

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(iii) Describe how an Ox- bow lake is formed  
(5 marks)



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(b) State five characteristics of a flood plain  
(5 marks)

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(c) Explain three causes of river rejuvenation  
(6 marks)

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**10. 2008 Q 8**  
a) i) Name two sources of rivers  
(2 marks)

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b) Describe the processes by which a river transports its load

(6 marks)

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c) Describe each of the following drainage patterns:

i) dendritic pattern

(3 marks)

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ii) trellis pattern

(3 marks)

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**11. 2010 Q 9**

(a) Differentiate between river rejuvenation and river capture.

(2 marks)

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(b) Give **three** features resulting from;

(i) river rejuvenation;

(3 marks)

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(ii) river capture.

(3 marks)

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(c) Explain the **four** ways through which a river transports its load.

(8 marks)

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**12. 2012 Q9a-c P1**

i) Outline two factors that influence the development of drainage patterns.

(2 marks)

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ii) Outline five characteristics of a river in its youthful stage

(5 marks)

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b) Describe the following processes of river erosion

i. Attrition

(2 marks)

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ii. Corrosion

(4 marks)

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c) Explain three negative effects of rivers to the human environment

(6 marks)

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i) State three reasons why it would be necessary to pre-visit the area of study

(3 marks)

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ii) State three activities you would carry out to determine why deposition occurs at this

stage

(3 marks)

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## LAKES

1. 1990 Q 3

(a) Describe how the following lakes are formed

(i) Crater lakes

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(ii) Oxbow lake

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(iii) Corrie lake

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(b) Give three reasons why some lakes in the Rift Valley in Kenya are saline

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(c) Explain how lakes influence the climate of the surrounding areas

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(d) Explain four negative effects which human activities have on lakes

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**2. 1998 Q 5**

(a) Name three external land forming processes that leads to the formation of lakes

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(b) State two ways in which lakes influence the natural environment

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**3. 2000 Q 9**

(a) (i) Describe how lake Victoria was formed

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(ii) Explain how Lake Victoria has modified the climate of the surrounding

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(b) Explain why some lakes in the rift valley have fresh water

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(c) State five economic uses of lakes

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(d) Explain how each of the following have affected lakes in Kenya

(i) Deforestation

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(ii) Industrialization

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(iii) Water weeds

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**4. 2004 Q 5**

a) What is a lake?

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b) State three ways through which lakes are formed?  
(3 marks)

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5. 2007 Q 9

(a) Give three processes that lead to formation of lakes  
(3 marks)

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(b) (i) Describe how lake Victoria was formed  
(4 marks)

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(ii) Explain how Lake Victoria influences the climate of the surrounding areas  
(6 marks)

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(c) (i) Apart from Lake Magadi name two other lakes within the rift valley in Kenya that have a high level of salinity  
(2 marks)

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(ii) Explain three causes of salinity in Lake Magadi  
(6 marks)

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(d) Give four economic uses of lakes other than mining  
(4 marks)

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**6. 2011 Q 10**

a) i) What is lake?  
(2 marks)

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ii) Name two crater lakes in Kenya.  
(2 marks)

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b) Describe how the following lakes are formed.  
i) Corrie lake  
(4 marks)

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(4 marks) ii) Oasis

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(4 marks) iii) Lagoon

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(3 marks) c) i) Give three reasons why some lake sin Kenya have saline water.

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ii) Explain how each of the following has affected lakes in Kenya:

- Deforestation  
(2 marks)

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- Industrialization  
(2 marks)

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- Water needs  
(2 marks)

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**7. 2012 Q5 P2**

a) Identify two sources of water found in a lake.

(2 marks)

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b) Give three characteristics of lakes formed due to faulting

(3 marks)

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## OCEANS, SEAS AND THEIR COASTS

1. 1992 Q 3

(a) Name three types of submergent coasts

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(b) (i) Describe three processes involved in marine erosion

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(ii) Using a well-labelled diagram, describe how a stack is formed  
(4 marks)

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(c) (i) Describe three ways in which islands are formed  
(6 marks)

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(ii) State six ways in which Kenya benefits from her coastal features  
(6 marks)

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**2. 1996 Q 3(Sec B)**

a) List **four** processes through which costs are eroded  
(4 marks)

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b) Using well-labelled diagram, explain how each of the following features is used formed.

i) A spit  
(4 marks)

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ii) A blow hole  
(2 marks)

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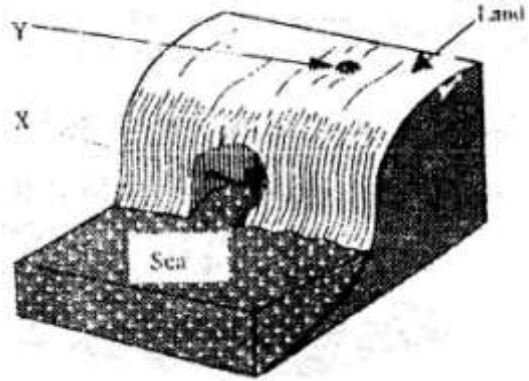
iii) An a toll  
(5marks)

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c) Describe **two** ways in which features resulting from coastal emergence are of significance of Kenya  
(2 marks)

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3. 1999 Q 5  
The diagram below represents a coastal landform



(a) Name the features marked X and Y

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(b) State three conditions necessary for the formation of a sand spit.

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**4. 2000 Q 3**

(a) State two causes of submergence of coasts

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 .....

(b) Name two features that form as a result of submergence of coasts

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**5. 2001 Q 8**

(a) Name two types of submerged coasts

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(b) Explain how the following factors determine the effectiveness of wave erosion along a coast

(i) Nature of the material transported by waves

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(ii) Nature of the coastal rocks

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(c) With the aid of labelled diagrams, describe the process through which a stack is formed

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(d) (i) State four conditions that favour the growth of coral

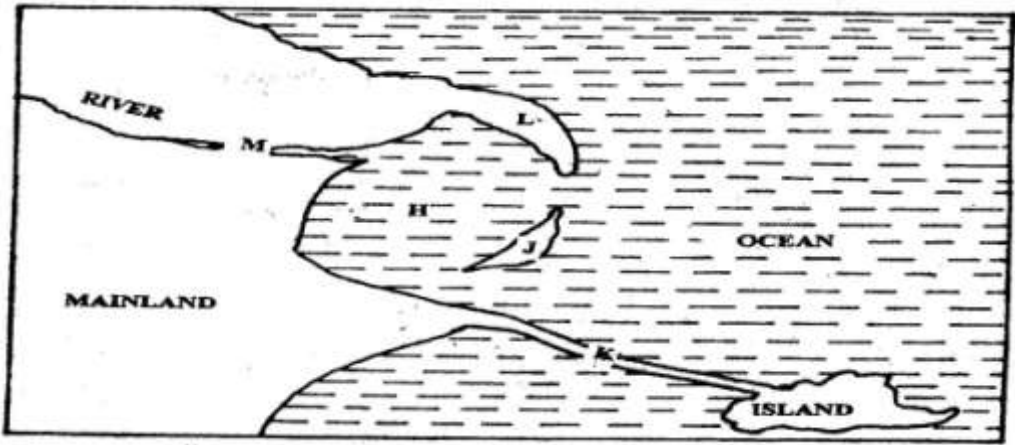
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(ii) Explain three ways in which coral contributes to the economic development of Kenya.

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6. 2005 Q 7a, b

Use the diagram below to answer question (a)



(a) Name the coastal features marked H, J, K, L and M  
(5 marks)

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(b) (i) State four conditions necessary for the formation of a beach  
(4 marks)

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(ii) Describe three processes involved in marine erosion  
(6 marks)

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**7. 2007 Q 2**

(a) Name two types of the coastal deltas  
(2 marks)

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(b) State two conditions that lead to deposition of silt at the mouth of a river  
(2 marks)

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**8. 2008 Q 10**

b) Describe three processes of wave erosion along the coast.  
(6 marks)

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c) Explain how the following factors influence wave deposition:  
i) Gradient of the shore  
(4 marks)

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ii) depth of the sea  
(4 marks)

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d) Using well labelled diagrams, describe how a bay bar is formed.  
(6 marks)

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**9. 2009 Q 9**

(a) (i) Apart from Bird's Foot delta, name two other types of coastal deltas  
(2 marks)

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(ii) Draw a diagram to show a Bird's Foot delta  
(3 marks)

(iii) Describe how a Bird's Foot delta is formed

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(b) Explain four factors that influence the development of coasts  
(8 marks)

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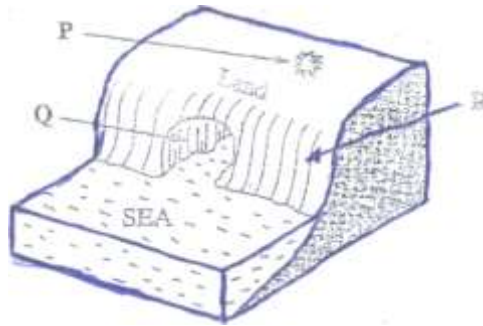
(c) (i) Differentiate between a barrier reef and a fringing reef?  
(2 marks)

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(ii) The diagram below represents some coastal features Name the features marked P,  
Q and R

(3 marks)





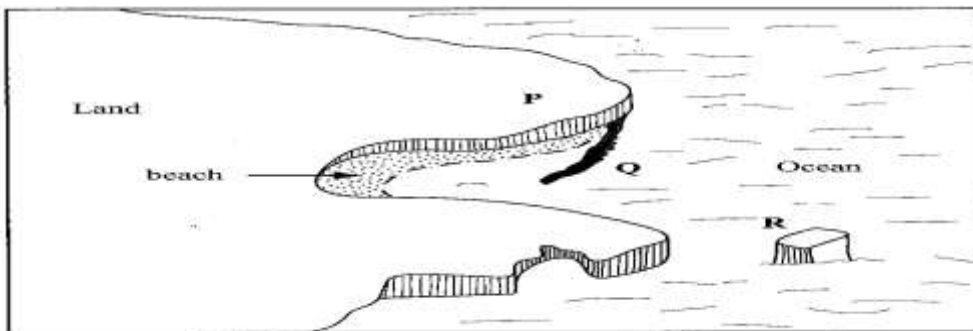
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(iii) State three conditions necessary for the formation of a beach. (3 marks)

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**10. 2010 Q 5**

(a) The diagram below shows some coastal features



(a) Name the features marked P, Q and R. (3 marks)

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(b) State **two** conditions necessary for the formation of a beach.  
(2 marks)

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**11. 2011 Q 4**

a) What is land breeze?  
(2 marks)

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b) Give two ways in which sea breezes influence the adjacent land.  
(2 marks)

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**12. 2011 Q 9**

a) i) What are tides?  
(2 marks)

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ii) Give three causes of ocean currents  
(3 marks)

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iii) Name the three ocean currents along the west coast of Africa.  
(3 marks)

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b) i) State three characteristics of submerged lowland coasts.  
(3 marks)

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ii) Explain three factors that determine the rate of coastal erosion.  
(6 marks)

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

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**13. 2012 Q10a-c P1**

10 a) i) Define the term soil

(2 marks)

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ii) Give two factors that determine soil formation

(2 marks)

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b) Explain how the following factors influence soil formation

i) Parent rock

(4 marks)

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ii) Biotic factors

(4 marks)

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c) i) State three characteristics of desert soil

(3 marks)

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ii) Give two economic uses of soils

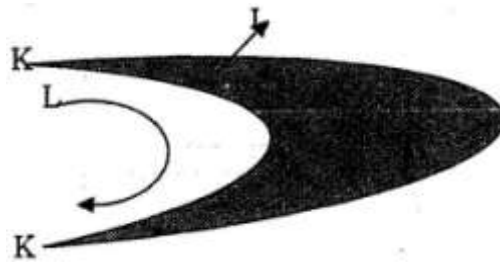
(2 marks)

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## ACTION OF WIND AND WATER IN ARID AREAS

1. 1999 Q 4

(a) The diagram below shows a barchan



(i) Name the feature marked K

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(ii) Name the air current marked L

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(b) How is an oasis formed?

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2. 2003 Q 9a,b

a) (i) Name two process through which wind erodes the surface

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(ii) State three ways through which wind transports its load

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b) (i) Describe how an oasis is formed

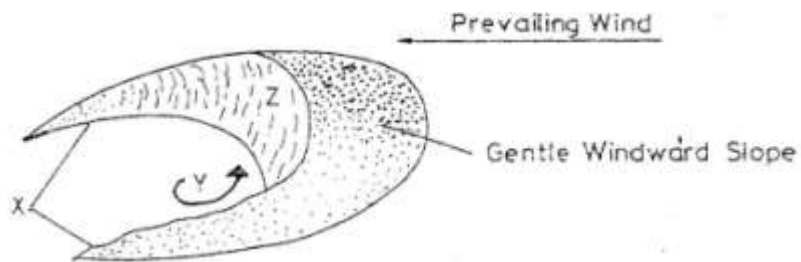
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(ii) Describe how zeugens are formed

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3. 2007 Q 3

The diagram below represents a barchan. Use it to answer questions (a)



(a) Name

(i) The feature marked X .....

(1 mark)

(ii) The air current marked Y.....

(1 mark)

(iii) The slope marked Z .....

(1 mark)

(b) Give two ways in which wind transports its load

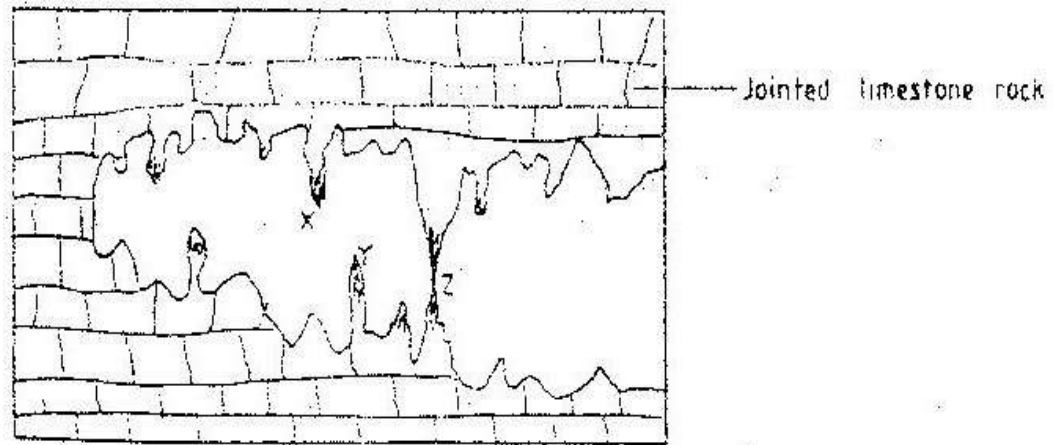
(2 marks)

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## **UNDERGROUND WATER**

1. 1997 Q 3

The diagram below shows some features found in a Karst scenery



Name the features marked X, Y and Z

(3 marks)

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2. 2003 Q 2

a) State three conditions necessary for the development of a Karst scenery

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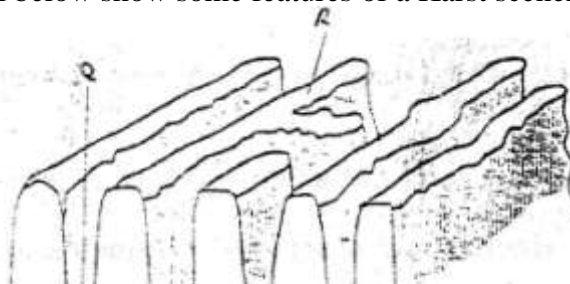
b) Give two reasons why there are few settlements in Karst landscapes

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3. 2004 Q 3a

The diagram below show some features of a Karst scenery. Use it to answer questions

(a)





a) Name the features marked P, Q, and R.  
(5 marks)

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## GLACIATION

**1. 1993 Q 3**

(a) Name three mounts in East Africa where glaciers are found

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(b) Describe how each of the following glacial features are formed

(i) An arête

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(ii) Pyramid peak

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(iii) Hanging valley

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(c) Explain five benefits of glaciated landscape to man

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**2. 1997 Q 8a,b**

a) With the aid of well labelled diagrams, describe the processes involved in the formation of a corrie lake.

(8 marks)

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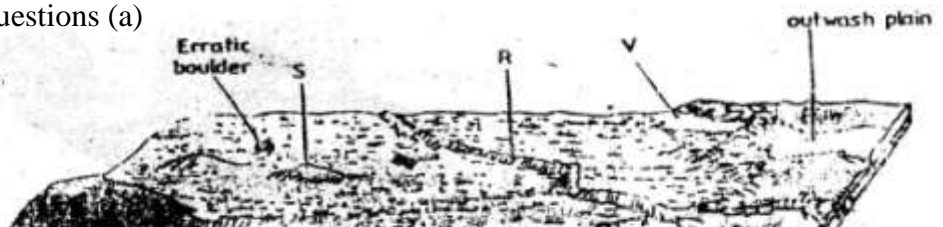
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b) Explain four ways in which a glaciated landscape is of significance to human activities.  
(8 marks)

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3. 1999 Q 7a-c

The block diagram below shows the feature resulting from glaciating in a lowland region. Use it to answer questions (a)



(a) In your answer booklet, name the features marked R, S, and V

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(b) Explain three conditions that may lead to glacial deposition in lowlands

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(c) Describe the process involved in the formation of

(i) Moraine dammed lake

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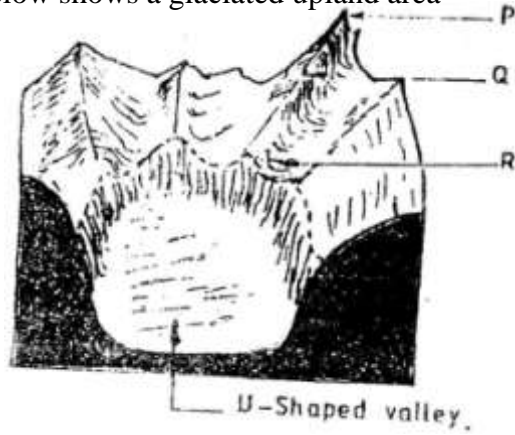
(ii) Outwash plain

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**4. 2000 Q 5**

The diagram below shows a glaciated upland area



(a) Name the feature marked P, Q, and R

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(b) How is a U- shaped valley formed?

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**5. 2003 Q 7a-c**

a) (i) What is a glacier?

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(ii) Distinguish between valley glaciers and ice sheets

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b) The diagram (in the question paper) represents an upland glaciated landscape.  
Use it to answer question b (i) and (ii)

(i) Name the features marked D, E and F

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(ii) Describe how pyramidal peak is formed

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(c) Explain the significance of upland glaciated features to human activities

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(a) Name a place in Kenya where tarns are found  
(1 mark)

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(b) Describe how a tarn is formed  
(4 marks)

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**7. 2006 Q 8**

a) (i) What is an ice sheet?  
(2 marks)

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(ii) Give two reasons why there are no ice sheets in Kenya  
(2 marks)

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(iii) Explain three factors that influence the movement of the ice from the place where it has accumulated  
(6 marks)

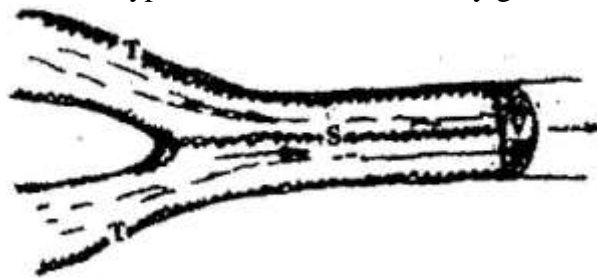
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(b) Describe how an arête is formed  
(4 marks)

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



(i) Name the type of moraines marked S, T and V  
(3 marks)

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(ii) Explain four positive effects of glaciation in lowland areas.  
(8 marks)

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**8. 2008 Q 9**

a) i) Describe how ice is formed on a high mountain  
(3 marks)

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ii) Apart from a valley glacier, name two types of ice masses found on mountains in East Africa

(2 marks)

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b) Explain how the movement of a valley glacier is influenced by the following factors:

i) Temperature  
(2 marks)

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ii) Width of a glacier channel  
(2 marks)

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c) Describe the distinctive characteristics of the following features resulting from glacial

erosion:

(3 marks)

i) corrie

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(3 marks)

ii) a pyramidal peak

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(3 marks)

iii) a fiord( fjord)

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(4 marks)

d) ii) Describe the process through which a crag and tail is formed

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(a) Describe plucking as a process in glacial erosion.  
(4 marks)

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(b) Explain **three** conditions that lead to glacial deposition.  
(6 marks)

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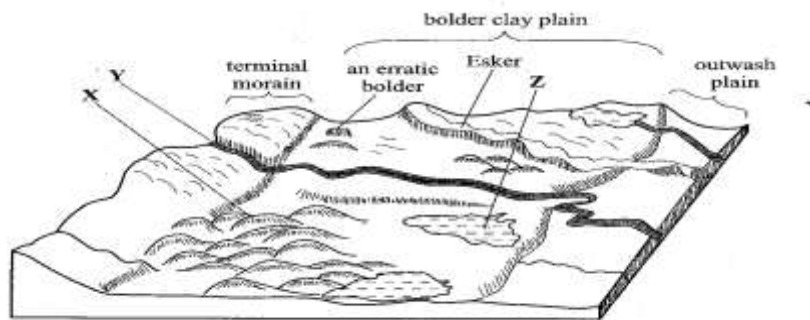
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(c) The diagram below shows features resulting from glacial deposition on a lowland area.  
Direction of movement of ice



(i) Name the features marked X, Y and Z.  
(3 marks)

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(ii) Describe how terminal moraine is formed.  
(4 marks)

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(d) Explain **four** positive effects of glaciation in lowland areas. (8 marks)

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