

NAME	INDEX NUMBER
SCHOOL	DATE _____

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

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

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

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4. 2009 Q 7b-d

(b)(i) What is mass wasting? (2 marks)

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

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

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

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(ii) subsidence: (2 marks)

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(iii) mud flows (2 marks)

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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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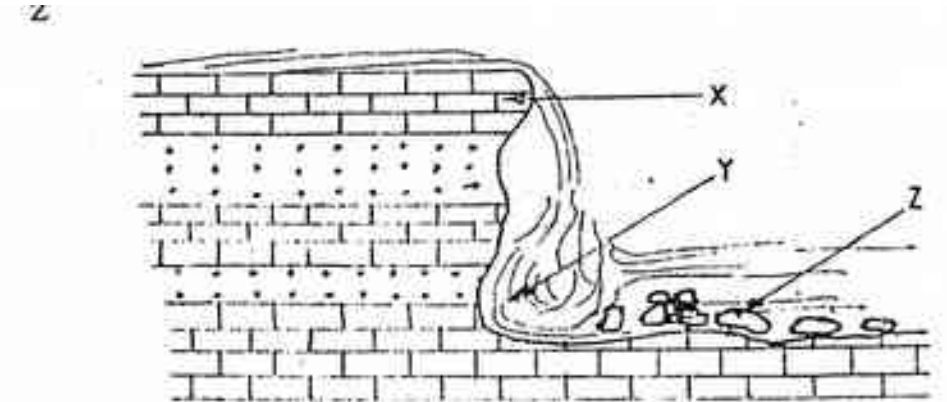
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2. 2000 Q 2

(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



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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 (2 marks)
i) Dendritic

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ii) Trellis (2 marks)

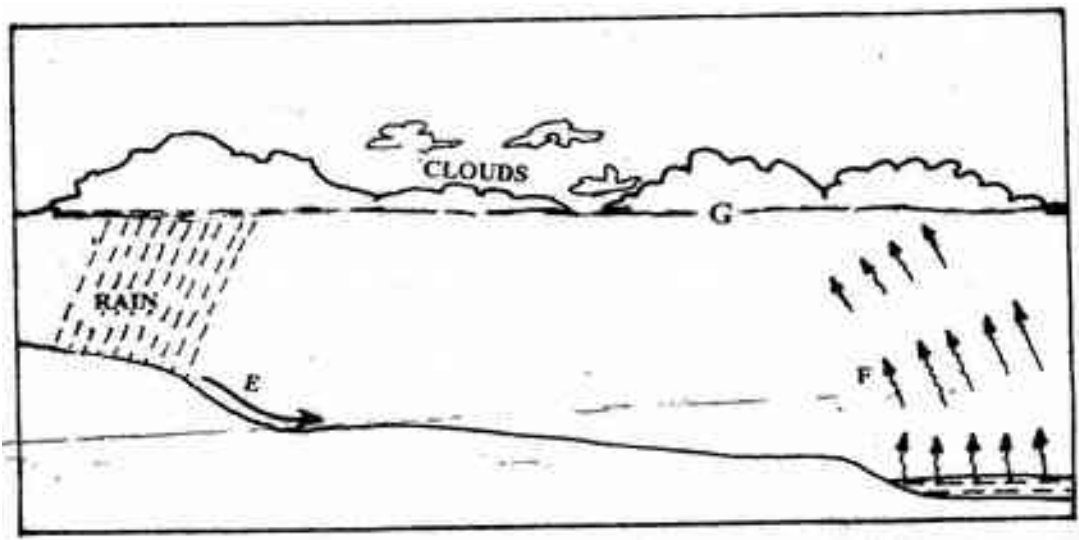
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iii) Centripetal (2 marks)

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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)



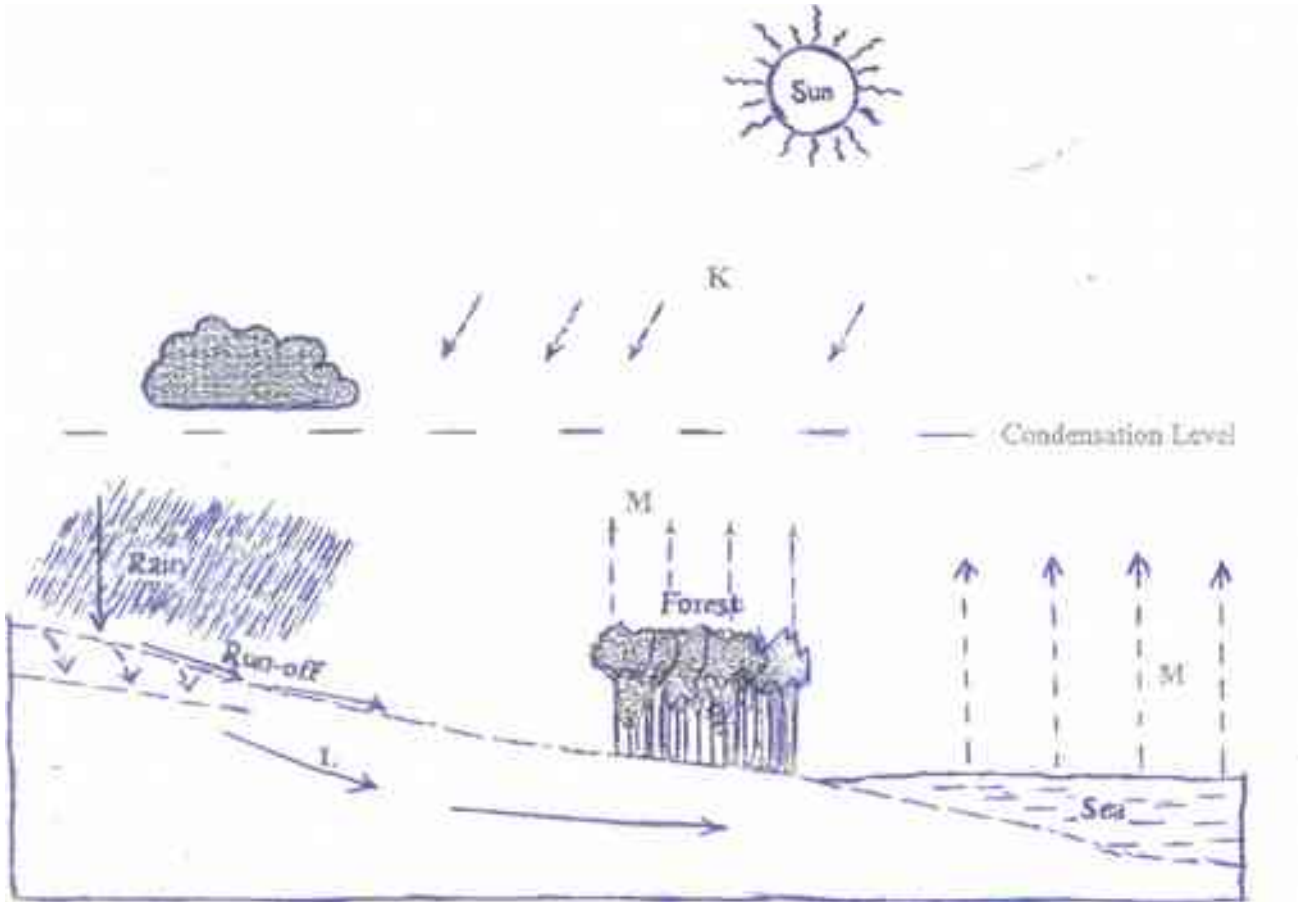
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(b) Differentiate between watershed and a catchments area (2 marks)

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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.
(marks)

(2

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

(5

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

(ii) River Omo

(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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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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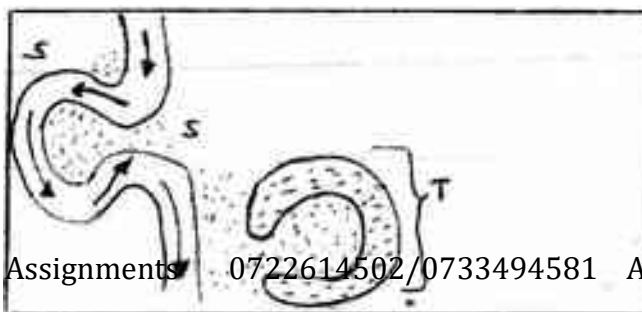
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6. 2001 Q 5

(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 CHANNEL
 ∴ 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

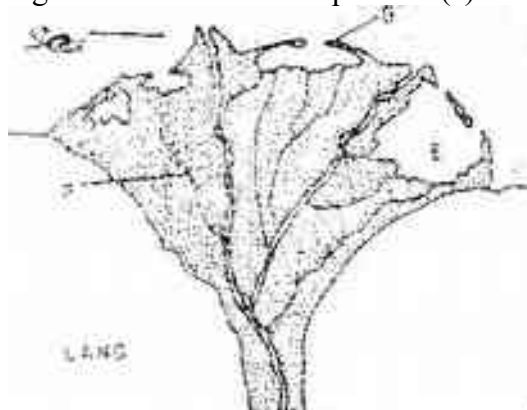
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(iii) Name the feature marked T.

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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

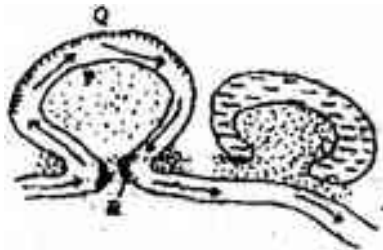
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(ii) Name two features that result from river rejuvenation

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9. 2006 Q 7a-c

The diagram below shows river Mandera. 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)

(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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(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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ii) Oasis (4 marks)

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iii) Lagoon (4 marks)

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

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ii) Explain how each of the following has affected lakes in Kenya: (2 marks)

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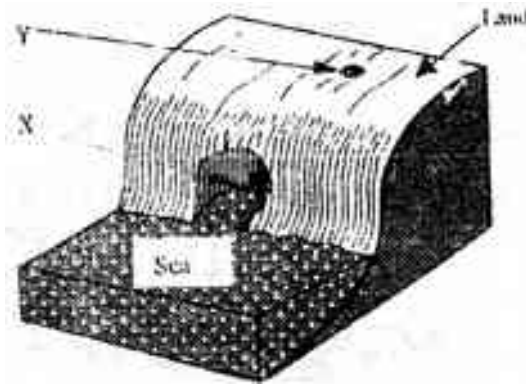
c) Describe **two** ways in which features resulting from coastal emergence are of significance of Kenya (2 marks)

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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

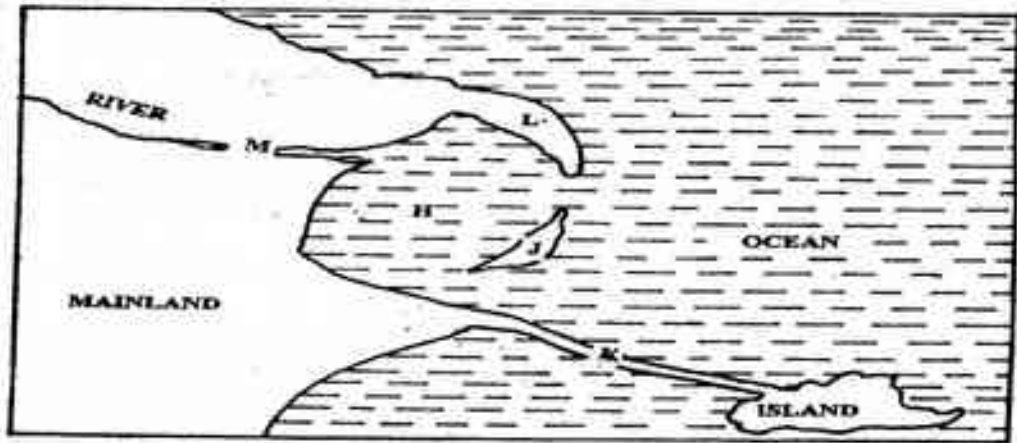
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(ii) Explain three ways in which coral contributes to the economic development of Kenya.

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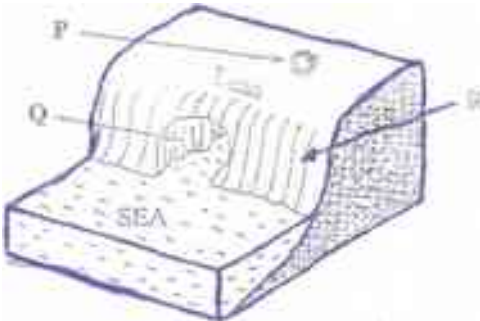
(b) Explain four factors that influence the development of coasts (8 marks)

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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)



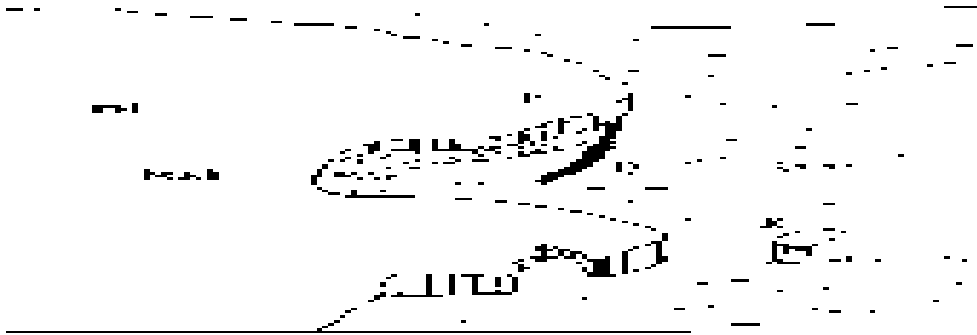
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(iii) State three conditions necessary for the formation of a beach. (3 marks)

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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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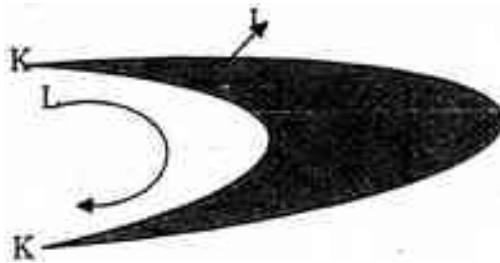
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ACTION OF WIND AND WATER IN ARID AREAS

1. 1999 Q 4

(a) The diagram below shows a barchan



(i) Name the feature marked K

(ii) Name the air current marked L

(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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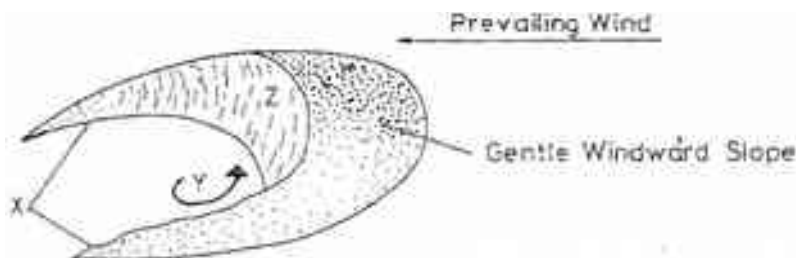
(ii) Describe how zeugens are formed

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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)

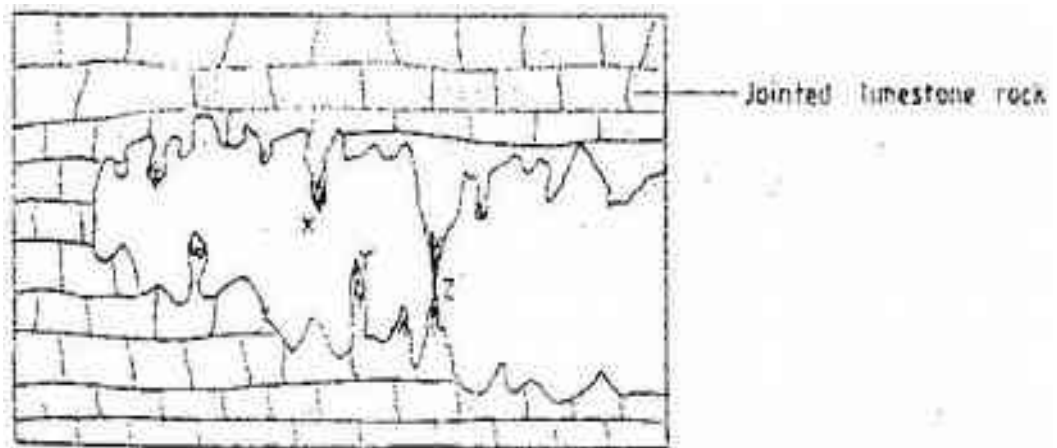
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UNDERGROUND WATER

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

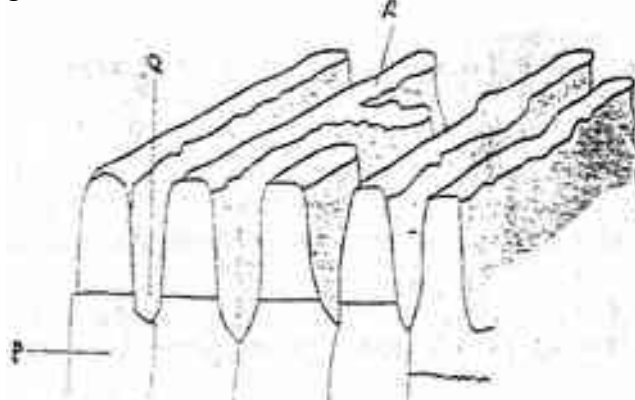
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b) Give two reasons why there are few settlements in Karst landscapes

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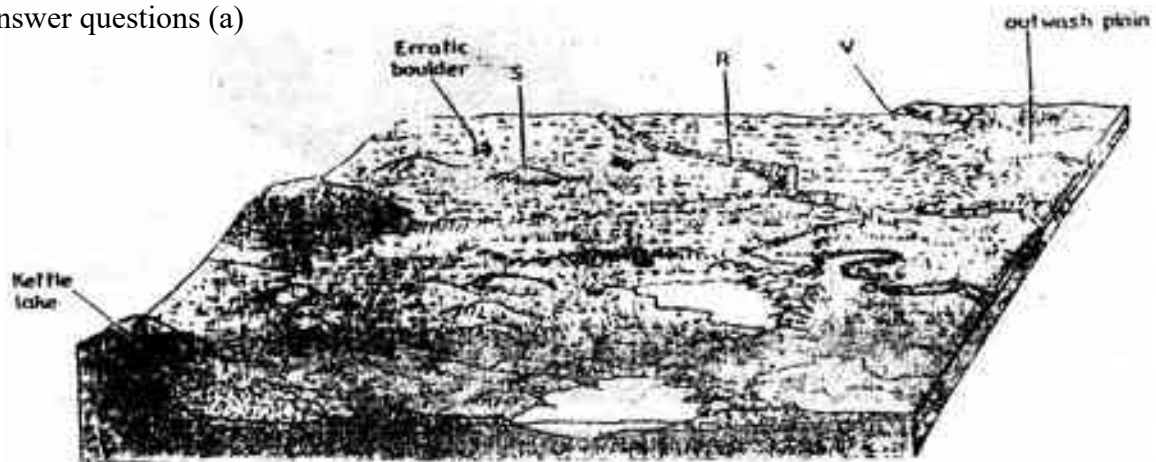
b) Explain four ways in which a glaciated landscape is of significance to human activities. (8 marks)

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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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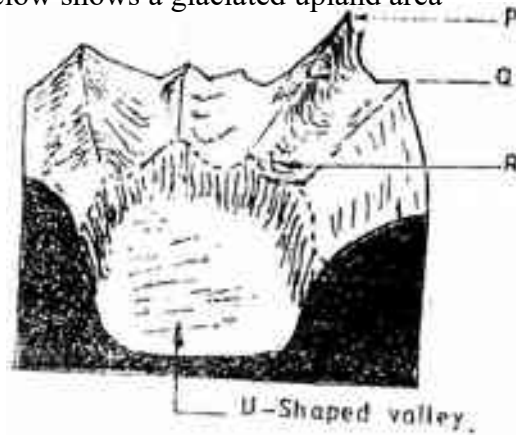
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(ii) Outwash plain

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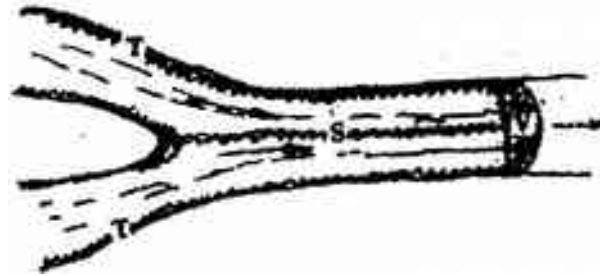
(c) Explain the significance of upland glaciated features to human activities

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(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:

i) corrie (3 marks)

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ii) a pyramidal peak (3 marks)

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iii) a fiord(fjord) (3 marks)

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d) ii) Describe the process through which a crag and tail is formed (4 marks)

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9. 2010 Q 8

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



(i)
marks)

Name the features marked X, Y and Z.

(3

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(ii)
marks)

Describe how terminal moraine is formed.

(4

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(d)
marks)

Explain **four** positive effects of glaciation in lowland areas.

(8

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