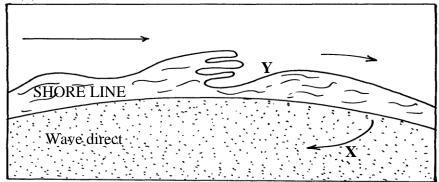
13. EXTERNAL LAND FORMING PROCESSES

The topic entails ;-

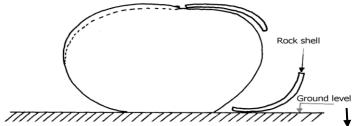
- (i) **Definitions** of:
 - a) Weathering
 - b) Mass weathering
 - c) Hydrological cycle and action of rivers
 - d) Oceans, Seas and their Costs
 - e) Action of wind and water in Arid areas
 - f) Action of water in Limestone areas
 - g) Glaciation
 - h) Lakes
- (ii) Distinguishing between oceans and seas
- (iii) Description of water movements in oceans and seas
- (iv) Explaining the external land forming processes and the resultant features
- (v) Identifying the sources of under ground water
- (vi) Discussing the significance of the resultant physical features to the environment
- (vii) Carrying out field work of land forms within the local environment
- 1. (a) Name **two** rivers in Kenya West of the Rift Valley that cause frequent flooding
 - (b) State three factors that lead to frequent flooding in the Lake region of Kenya
- 2. (a) i) Other than seif dunes, name two other types of sand dunes
 - ii) Give five characteristics of seif dunes
 - iii) State four factors that facilitate the formation of the sand dunes
 - b) Describe how a desert rock pedestal is formed
 - c) Explain **four** positive effects of desert features to human activities
- 3. a) i)Give **three** reasons why there are no ice sheets in Kenya
 - ii) Explain three factors that influence the movement of ice from the place of accumulation
 - b) Describe the process through which the following features are formed.
 - i)an arête
 - ii) A crag and tail
 - c) Explain four positive effects of glaciation in lowland areas
- 4. a)i) Give the dates in a year during which the number of hours of darkness is equal in both the north and the south poles
 - ii) Why do the lengths of days and nights vary from one part of the earth to another?
 - b) State **two** effects of the rotation of the earth on its axis
- 5. a)What is a **lake**?
 - b) State three ways through which lakes are formed
- 6. a) i) What is **desertification**
 - ii) Differentiate between wind deflation and wind abrasion
 - iii) Describe how wind transports its materials through the following processes:
 - I) Saltation
 - II) Suspension
 - III) Surface creep
 - b) Describe how the following features are formed
 - i) Zeugens
 - ii) Oasis
- 7. a) State **two** ways in which glacier moves

- b) State three differences between a young river valley and a glaciated valley
- 8. The diagram below represents the action of waves on the coastline. Use it to answer questions (a) and (b)

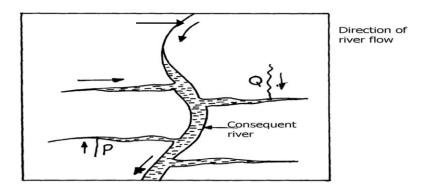


- a) Name the features marked X and Y.
- b) List **three** ways in which waves erode the coastline.
- 9. Name **two** sources of underground water.
- 10. a)i) What is chemical weathering
 - ii) State **five** factors that affect the rate of chemical weathering in equatorial regions
 - b) Explain the following chemical weathering process
 - i) Carbonation
 - ii) Hydrolysis
 - c) Explain four economic importance of weathering to physical and human environments
- 11. a) Name **two** types of tides
 - b) Give **three** ways in which the shape of the landmasses may influence movement of ocean waters
 - (c) State **four** sources of underground of water
 - (d) State **five** ways in which springs occur
 - (e) Account for **four** ways in which desert vegetation adopt to the climate of their environment
- 12. (a) Hamada and Erg
 - (b) Explain **three** processes of wind erosion
 - (c) With the aid of well labeled diagrams, describe the formation of:
 - i) A Barchan
 - (ii) Rock pedestal
 - (iii) An oasis
 - (d) Name **three** features resulting from water deposition in desert
- 13. State **three** reasons why wind erosion is predominant in desert areas.
 - (b) Describe **three** processes by which wind erodes.
 - (c) With aid of well labeled diagrams, describe the formation of the following desert features;
 - (i) Rock pedestal.
 - (ii) Zeugen.
 - (d) State **four** ways in which desert land forms influence man's activities.
- 14. (a) Differentiate between oceans and seas.
 - (b) Explain **three** sources of salinity in the oceans .
 - (c) State **three** features on the ocean floor.
- 15. (a)(i) What is the difference between a sea and an ocean?
 - (ii) Explain any **three** ways in which islands are formed.
 - (b) (i) Describe how Lake Victoria was formed.

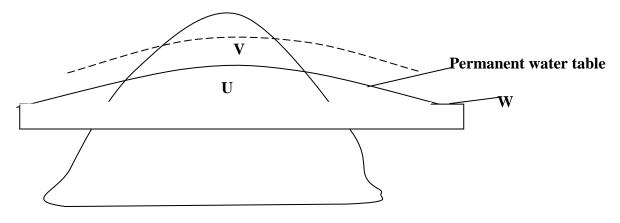
- (ii) Explain any **three** ways in which **Lake Victoria** has influenced the climate of surrounding areas
- (c) (i) Distinguish between aridity and desertification
 - (ii) Explain any three physical causes of aridity and desertification
- 16. (a) (i) What is chemical weathering?
 - (ii) Name any three surface features that result from carbonation.
 - (b) The diagram below shows a feature resulting from weathering. Use it to answer the questions that follow:-



- (i) What is the name of the feature?
- (ii) Describe how the feature is formed.
- 17. (a) Differentiate between a river system and a river regime.
 - (b) The diagram below shows a drainage pattern. Use it to answer the questions that follow:-



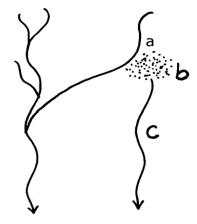
- (i) Name the drainage pattern.
- (ii) Name the parts labelled **P** and **Q**
- 18. (a) Name any **two** features deposited by glacier in lowland areas.
 - (b) Describe how a roche moutonee is formed.
- 19. (a) The diagram below shows zones of underground water. Use it to answer the questions that follow:-



(i) Name the parts labelled U and V.

- (ii) Name the surface water feature likely to form at the part labelled **W**.
- (b) Explain how the nature of underground rocks influences the existence of underground water
- 20. (a) (i) State **two** ways in which wind erodes the surface of the earth
 - (ii) Explain three ways thorough which wind transports its load
 - (b) Using well labeled diagrams, describe how the following desert features re formed:-
 - (i) Zeugen
 - (ii) Rock pedestal
 - (c)(i) Give the name given to rocky desert in the Sahara
 - (ii) Explain three positive effects of desert features to both human and physical environment
- 21. (a) What is a lake?
 - (b) (i) Name **two** types of lakes formed due to vulcanicity
 - ii) explaining how lake Victoria has influence the climate of the surrounding area
 - (c) (i) State four main reasons why lakes within the Rift valley are salty
 - (ii) Name any **three** fresh water lakes in Kenya which are within the rift valley
 - (d) Explain any **four** economic significance of lakes to Human activities
- 22. (a) Name three types of tides
 - (b) Differentiate between oceans and seas
- 23. (a) (i) Differentiate between aridity and desertification
 - (ii) Describe **three** ways through which wind erodes the desert areas
 - (b) Using well labelled diagrams describe how the following desert features are formed:
 - (i) Rock pedestals
 - (ii) Yardangs
 - (c) State **five** uses of desert features
- 24. (a) State **four** factors which may cause a waterfall to form
 - (b) (i) Describe how river braids are formed
 - (ii) Name **three** features resulting form river rejuvenation
 - (c) Describe how a river capture occurs
 - (d) Give **two** reasons as to why Lake Naivasha is a fresh water lake
- 25. Give **three** ways through which rocks may be metamorphosed
- 26. (a) (i)State **two** processes though which the wind erodes the surface.
 - (ii) Explain three ways though which wind transport its load
 - (b) Describe how the following desert features are formed:
 - (i) Oasis
 - (ii) Zeugen
 - (c) Explain **four** ways in which desert land forms are of significance to human activities
- 27. (a) (i) Name **two** ways in which ice moves
 - (ii) State **two** factors which facilitate the movement of ice
 - (b) Identify **two** erosional features in glaciated lowlands
 - (c) Describe how the following features are formed:
 - (i) Outwash plain
 - (ii) Moraine-dammed lake
 - (d) Explain **four** ways in which a glaciated landscape is of significance to human activities
- 28. (a) Differentiate between mechanical and chemical weathering

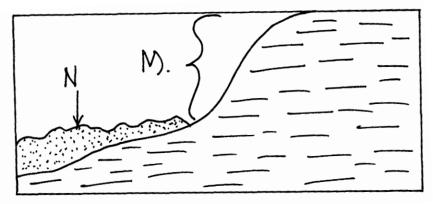
- (b) State three factors which influence weathering
- 29. a) Differentiate between a spring and well.
 - b) With aid of a well labeled diagram, show the three Zones of ground water.
 - c) List four candidates necessary for the formation of an artesian well.
 - d) Explain three ways in which ground water is of significant to human activities.
 - e) i) Define the term Karet scenery
 - ii) Give two conditions for the development of Karet landscape
 - iii) Outline the significance of Karet landscape to human activities.
- 30. (a) Use the diagram below to answer the following questions



- (i) Name the parts labelled:-
- (ii) State four causes of river rejuvenation
- 31. a i) Differentiate between denudation and mass wasting.
 - ii) Explain **two** reasons why chemical weathering is dominant in humid tropics.
 - b) Explain **three** factors that influence mass wasting.
 - c) With aid of a diagram, explain the process of solfluxion.
 - d) i) State **four** negative effects of mass wasting.

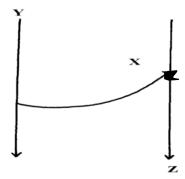
Name the:

i) Type of mass movement shown



- iii) Features M and N
- iv) State the factor that influenced the process above
- a) State **three** reasons why wind is a major agent of land sculpture in the desert.

- b) Explain any **two** processes of wind erosion in deserts.
- c) With and of well labeled diagram, explain how a deflation hollow is formed.
- d) State **four** characteristics of a seif dune.
- 33. a) State **two** causes of coastal submergence.
 - b) Name **three** conditions necessary for the growth of coral polyps.
- a) State **two** ways in which wind transport it's load
 - b) Highlight the factors that influence the formation of a desert sand dune
- 35. a) Name **three** sources of lake water.
 - b) State **three** factors that determine the size of a lake.
- 36. a) i) What is a river?
 - ii) Distinguish between a river confluence and a river tributary
 - b) Describe how a river erodes its channel by the following processes
 - i) Hydraulic action
 - ii) Abrasion
- 37. a) Describe the process of a river capture
 - b)State five characteristics of a flood plain
- 38. a) i) Name **four** features resulting from water action in deserts
 - ii) State three factors which contribute to the development of deserts
 - iii) Name **three** types of deserts according to the nature of their surfaces
 - b) i)Explain three factors which influence wind transportation in deserts
 - ii) How is an oasis formed?
- 39. (a) What is the difference between swash and backwash
 - (b) Why is wave cut platform and cliff line in Mombasa found above the sea level?
- 40. (a) Define the term river capture
 - (b) The diagram below shows a river capture, name the features marked X, Y, Z



- 41. (a) Differentiate between **accordant** and **discordant** drainage systems
 - (b) State three factors that facilitate formation of deltas
- 42. a) i) What is a desert

- ii) Name three types of desert landscapes
- b) i) Name **two** processes of wind erosion responsible for sculpturing desert landscapes
- ii) Using well labeled diagrams describe how a zeugen may be formed
- c) i) Name four desert landforms found in deserts associated with the action of water
 - ii) What is the significance of desert landforms
- 43. (a) (i)Name **three** processes of wind erosion in desert
 - (ii) State three factors which influence the rate of wind transportation
 - (b) With the help of a well labeled diagram describe the formation of the following features:-
 - (i) Rock pedestal
 - (ii) Oasis
 - (c) (i)List three external land forming processes which lead to the formation of lakes
 - (ii) Explain **three** ways in which lakes influence the natural environment
 - (d (i) With the aid of a well labelled diagram, Describe how limestone pillars are formed in Karst scenery
 - (ii) Explain three significance of resultant feature in limestone areas to human activities