VEGETATION

- 1. d) (i) Measure distances/estimation of heights of plants
 - Collect sample of plants
 - Draw sketches/transects
 - Record/take notes
 - Take photographs of plants/area
 - Count plants
 - Feeling the leaves
 - Conduct interview
 - (ii) How to identify different types of plants
 - By appearance
 - Their colour
 - By their leave size/patterns/type
 - By their age
 - By the nature of their bark
 - By texture of their leaves
 - By their system of the roots
 - The type of fruits.
- 2. a) (i) W- Rainforest
 - X- Bamboo
 - Y-Health and moorland

(ii)

- Savanna vegetation consists of trees and grass
- Wetter areas/near forests the vegetation consists of tall trees similar to those found in forests and woodlands
- Wetter areas have tall thick grass.
- Gradually away from the forest, the trees become fewer and shorter
- Grass is shorter in drier areas
- In drier areas the trees are short and more scattered.
- Some trees are deciduous type
- Most trees are umbrella shaped
- Most common trees are acacia and other thorny trees.
- Where the rainfall is lowest grass is tufted and coarse/trees scrub
- There are scattered baobab trees and other drought resistant trees.
- Along river valleys there is riverine vegetation and thick bush.
- (iii) Canada-Prairies

Russia- Steppe

Australia-Downs

b)

- Fire- Often large areas of forests are destroyed by fires and take long to recover.
- Diseases and pests attack mainly the planted forests causing many trees to die.
- Human activities/settlements/charcoal burning/logging have destroyed many forest areas.
- Over exploitation leads to depletion of certain tree species such as Meru oak, Campor and Elgon teak. These trees take long to manure.

- Government policy of degazetting of some forests made people free to clear many forested areas.
- Prolonged drought leads to degeneration of forest some of which take long to recover.
- 3. a) Natural vegetation is the plant cover which is growing wildly on its own.

b)

- The vegetation is adapted to long, hot dry summers.
- Some plants are evergreen
- Grasses dry up during summer and germinate during winter.
- Woody scrub is common in very dry areas.
- Some plants have small, spiny leaves while others have thick skinned or leathery leaves.
- Some plants have long roots.
- Some plants have thick barks
- Some plants have large and fleshy bulbous roots.
- Some trees are deciduous.

4.

- Campaigns against indiscriminate cutting down of trees/educating people/ reducing overgrazing.
- Establishment of vegetation/forest reserves
- Restriction on cutting down of trees
- Development of energy saving technology to reduce high consumption of wood fuel
- Use of alternative sources of energy
- Encouraging the planting of more trees to reduce reliance on existing ones

- Establish Nyayo tea zones to act as buffer zone.
- 5. (i) Variation in rainfall
 - (ii) Variation of temperature
 - (iii) Variation of altitude/relief.
 - (iv) Aspect
 - (v) Soil
 - (vi) Human activities

Variation of rainfall

Areas that receive high rainfall are forested while those receiving low rainfall have grassland vegetation.

Variation of altitude/relief

Vegetation varies with height above sea level (e.g. montane in high altitude) as altitude influence climate and soil.

Aspect

Areas on leeward slopes of Mountains have different vegetation from thick growth of vegetation in the windward side because they receive different amounts of sunshine and rainfall.

Soil

Sandy soil/swamp soil/saline soil influence growth of different types of vegetation. Vegetation on slopes is determined by soil catena.

Drainage

Vegetation is as luxuriant along water courses/along coastal flats because surface water supply is reliable/waterlogged areas support swamp vegetation.

Human activities

Settlement/mining/ farming interferes with the original vegetation leading to growth of secondary / derived vegetation/desertification.

Wild animals

Destroy vegetation leading to secondary type/desertification. They aid in seed dispersal.

- 6. State two reasons why mountain top have no vegetation.
 - Temperatures are too low to support plant growth.
 - There is no soil to support plant growth/bare rock.
 - Water is in frozen state.
- 7. Vegetation refers to plant life on earth surface.
- 8. Areas where coniferous forests are found.
 - Cool temperate continental climate/Siberian type.
 - Cool temperate eastern margin- Laurentian type.
 - West coast of Canada.
 - Scandinavian region
- 9. Characteristics of temperate grasslands
 - Trees are scarce except along water courses.

- In moist areas the grass is tall.
- Where it is drier there is short tough grass
- Grass withers in autumn and dries up in winter but sprouts during spring.
- Presence of scattered trees
- Common trees are acacia
- 10. Secondary vegetation comprises natural processes colony on a place which is in the process of receiving due to interference by man while planted vegetation comprises of plants grown in a place by people e.g. agro forestry.
- 11. Two significance of vegetation to physical and human environment.
 - Vegetation is of aesthetic value as it adds beauty to landscape.
 - Vegetations roots binds soil together protecting soil against erosion
 - Plant decay to form humus adding fertility to soil.
 - a) Ground close-up
 - Acacia vegetation
 - b) Thorny like leaves to reduce rate of water loss.
 - Have long tap root to tap underground water
 - Plant seeds remain dormant awaiting short rains.