**AGROFORESTRY**

1. two reasons for seed treatment of tree species before planting

* Break dormancy

Control pests and diseases

2. four ways by which Re-afforestation help in land reclamation

* Add organic matter from falling leaves
* Recycles soil erosion
* Control soil erosion
* Improve drainage of swampy areas

Play part in hydrological cycle

3. four advantages of agro forestry

* Source of wood fuel (energy)
* Source of income
* Conserve environment/reduce soil erosion/improve water catmint
* Source of food /fruits
* Medicine/value
* Aesthetic value
* Feed for livestock
* Labour saving

5. (a) A – Pollarding technique (½mk)

 B – Coppicing (½mk)

(b) An example of a tree species suitable for technique B and C as a method of harvesting B

(i) Calliandra calothyrus

(ii) Markahmia lutea

(iii) Psidum guajava

(iv) Croton macrostachyus ( ½ x 1 = ½mk)

 C (i) - Grevillea robusta

- Calliandra calothyrsus

 - Croton cacrostachyus ( ½ x 1= ½mk)

6. -Deep rooted

* Nitrogen fixing/ leguminous
* Fast growing

Good in by product production

7. (a) Five characteristics of trees used in agroforestry are;

* Fast growth rate
* Nitrogen fixing/leguminous
* Good in by product use timber, fruits etc
* Deep rooted
* Nutritious and palatable
* easily coppiced
* Non-competitive ability with main crop (5x1=5mks)

(b) The benefits of agroforestry are:

* Provides food
* Source of energy/fuel
* Fodder for livestock
* Aesthetic value
* Provides shelter
* Income generation
* Soil and water conservation
* Balancing of atmospheric gases (8x1=8mks)

8. four forms of agro- forestry

* Alley cropping
* Woodlots
* Multi-storey
* Source of wood fuel
* Source of income
* Labour saving
* Aesthetic value
* Reduces the carbon dioxide reducing the depletion of Ozone layer

Used as a method of soil and water conservation

9. - Border//edge grow

* Source of wood fuel
* Source of income
* Labour saving
* Aesthetic value
* Reduces the carbon dioxide reducing the depletion of Ozone layer
* Used as a method of soil and water conservation

10. - fast growth

 -Deep rooted

 -Nitrogen fixing

 -Good by-products

 - Friendly to crops/not affent crop