

AGRICULTURE

OPENER TERM 3 EXAM

MARKING SCHEME

FORM 2

1. a) Seed bed

- This is a piece of land which as been prepared ready to receive planting materials. **b) Nursery bed.**
- This is a special nursery bed prepared for raising seedlings before transplanting. c) **Seedling bed**
- -This is a special type of nursery bed used for raising seedlings which have been removed from the nursery bed due to overcrowding before they are ready for transplanting. **d) Pricking out.**
- This is the removal of seedlings from a nursery bed to a seedling

bed. e) Hardening off

This is the practice of preparing seedlings to adapt to ecological conditions prevailing in the seedbed by gradually reducing shade and watering

2. Why nurseries are used in crop propagation

- They facilitate production of many seedlings in a small area.
- Routine management practices are easily and timely carried out.
- They make provision of best conditions for growth, such as fine tilth, levelled field and shade possible.
- They facilitate the planting of small seeds which develop into strong seedlings that are easily transplanted.
- They ensure transplanting of only those seedlings that are healthy and vigorously growing.
- They facilitate transplanting of seedlings that arealready established thus reducing the period taken in the field.
- Excess seedlings from the nursery may be sold, thus become a source of income to the farmer. **3. Factors considered when selecting a nursery site** Nearness to the water source.
- Type of soil.
- Topography Previous cropping Security.



- Well sheltered place.

4) Main nursery management practices

Mulching

Watering

Weed control

Pricking out

Shading

Pest and disease control

Hardening off

5) Methods of grafting

- Whip or tongue grafting
- Side grafting
- Approach grafting
- Bark grafting
- Notch grafting 6. a) Layering

iThis is the process by which a part of system i ☐ induced to produce roots while still attached to the mother plant,

- b) Typeof layering
- Marcotting/aerial layering
- Tip layering
- Trench layering
- Compound/serpentine layering
- 7. a) I Marcotting/aerial layering
- II Tip layering
- III Trench layering
- IV Compound/

8. Importance of tissue culture in crop production

- It is used to recover and establish pathogen free plants especially in the Control of viral diseases.



- It is used in the mass production of propagules.
- It is fast and requires less space than use of cuttings.
- 9. a) A Whip/tongue grafting
- B Side grafting
- C Notch grafting
- b) X Scion Y -

Root stock

c) Compatibility

10. a) Budding

This is the practice of uniting a vegetative bud (scion) to a seedling of another plant (root stock) b)

Methods of budding

- T-budding
- Top budding
- Patch budding

11. Routine activities carried out on tree seedlings after transplanting

- Watering
- Mulching
- Provision of temporary shade to conserve moisture