

KERALA AGRICULTURAL UNIVERSITY

B.Sc (Hons.) Forestry. 2012 Admission

Vth Semester Final Examination- February-2015

Cat. No: Fmau.3106

Marks: 80

Title: Tree propagation and nursery Technology (1+1)

Time: 3 hours

I) State whether True or False

(10 x 1=10)

1. Shade houses act as an intermediate stage between green house and field planting
2. Auxin induces lateral bud formation
3. Usually one to two year old shoot portion is used for air layering
4. ABA antagonizes the effect of Giberellic acid
5. Cytokinin promotes apical dominance
6. In apospory embryo sac develops from vegetative cell of the ovule
7. Autograft is a graft derived from the tissue of the recipient
8. Parthenocarpy is the production of fruit after fertilization
9. Stolon is a trailing stem capable of producing roots and shoots from the node
10. Broad leveled plants with iron deficiency shows chlorosis

II Write short notes on any TEN

(10 x 3=30)

1. Fertigation and its advantages
2. Types of germination
3. Softwood and hardwood stem cuttings
4. Differentiate between apomixes and parthenocarpy
5. Conditions for successful grafting
6. Techniques for retaining seed viability
7. Mulching
8. Recalcitrant seeds
9. Mist propagation
10. Root suckers
11. Stock-scion incompatibility
12. Seed certification

III Write short essays on any SIX of the following

(6 x 5 =30)

1. Role of growth regulators in propagation
2. Different factors affecting rooting of cuttings
3. Anatomical and Physiological aspects of graft union
4. Green houses

5. Merits of seed propagation
6. Different methods of layering
7. Propagation by naturally occurring special plant parts
8. Components and design for commercial tree nurseries

IV Write essay on ANY ONE

(1 x 10=10)

1. Different method of grafting and budding techniques
2. Principles and practices involved in site selection and lay out of nursery
