

KERALA AGRICULTURAL UNIVERSITY
B.Sc. (Hons.) Agriculture – 2009 Admission
Ist Semester Final Examination - March 2010

Cat. No. : Hort 1101
Title : Fundamentals of Horticulture (1+0)

Max. marks: 80
Time : 3 hours

Part A

I. Answer any ten question only (Define/Explain)

(10x1=10)

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|-------------------------|-----------------------|
| A1. Asexual Propagation | A7. Grafting |
| A2. Climacteric fruits | A8. Bearing habit |
| A3. Dormancy | A9. Top working |
| A4. Parthenogenesis | A10. Maturity Index |
| A5. Apomixis | A11. Incompatibility |
| A6. Fruit drop | A12. Growth retardant |

Part B

II. Write ten short answers only

(10x3=30)

- B1. Write brief note on approach grafting in Mango
B2. "T" Budding in Rose
B3. What is layering? Discuss on air layering
B4. What is mulching and its advantages ?
B5. Rootstock-Scion relationship
B6. Mixed cropping in Horticultural crops
B7. What is drip irrigation and its advantages
B8. Stone Grafting in Mango
B10. Various types of cutting used for propagation
B11. Differentiate between training and pruning
B12. Mention different systems of Planting

Part C

III. Answer any six question only

(6x5=30)

- C1. Explain climatic zones of India and Kerala with suitable illustrations in Horticultural crops.
C2. Explain Principles, Planning, layout of Orchard
C3. Role of Plant Growth Regulators in Horticultural crops.
C4. Describe different factors responsible for unfruitfulness in fruit crops.
C5. Explain on Bud sports and chimeras
C6. Discuss on anatomical and physiological basis of rooting of cuttings
C7. Write on Seedlessness in Horticultural crops, its significance and induction
C8. What is fertigation and the different systems of irrigation in Horticultural crops

Part D

IV Answer any one question only

(1x10=10)

- D1. Explain on Plant propagating structures.
D2. Micropropagation of Horticultural crops