

M.Sc. (Ag.)Semester -IV Examination 2015

Horticulture

Course : HOR 505

(Technological Advancement of Fruit, Vegetable and Ornamental Crops)

Time : Three Hours

Full Marks : 50

Questions are of value as indicated in the margin.

Answer **any five** questions

1. What do you mean by Organic Farming? Discuss in details about the essentiality of Organic Horticulture in India. Discuss about the various problems & prospects of Organic Farming of horticultural crops in India. 2+4+4=10
 2. Discuss in details about the principles and methods of Organic Horticulture. Describe the various components of Organic Horticultural system with suitable examples. 5+5=10
 3. What do you mean by high density planting? Write its advantages and limitations. Enumerate HDP technology in mango or guava. 1+3+6=10
 4. What is protected cultivation? Discuss in brief about the scope and importance of protected cultivation in India with special reference to horticultural crops with suitable examples. 2+8=10
 5. What do you mean by micro-irrigation system? Writedown advantages & disadvantages of micro-irrigation system Describe different types of micro-irrigation system along with various components. 2+8=10
 6. Define Tissue culture? Describe in details about the importance of Tissue culture technology in horticultural crops. Discuss the bottlenecks in production of Tissue culture plants in India. 2+5+3=10
 7. Define Hi-Tech Horticulture. Discuss about different components of Hi-Tech Horticulture with suitable examples. Describe the prospects of Hi-Tech Horticulture in India. 2+5+3=10
 8. Write short notes on the following (**any four**) : 2.5×4=10
 - (a) Jalkund
 - (b) Cold frame
 - (c) Low tunel
 - (d) Use of plastics in horticulture
 - (e) Transgenic varieties in fruits & vegetable crops
 - (f) Role of biofertilizers in Organic farming
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