

B.Sc.(Ag.) Honours Semester– III Examination, 2014
Course No. : HOR –211
(Fundamentals of Horticulture)
(Old Syllabus)

Signature of Centre Superintendent

Roll No.: (in figure) _____ (in words) _____
Student Index No. _____ Regn. No. _____ of _____

Time : Two hours

Full marks : 50

Questions are of value as indicated in the margin

Part-I

(Objective and Short Answer Type)
(Use only ball point pen)

Time : 30 minutes

Full marks : 20

- Note :** 1. Answer in question paper itself.
2. Striking, rewriting and overwriting are not allowed in the objective type questions.

1. State True (T) or False (F) in the space provided for following statements (*any five*):

1×5=5

- i) Training is always performed in mature trees. ☐
- ii) Papaya and pumpkin are rich in carotenoids. ☐
- iii) Tissue culture technique is commercially adopted in banana. ☐
- iv) Epicotyl grafting is commonly followed in litchi. ☐
- v) India ranks first in world fruits and vegetables production. ☐
- vi) Per unit area income from fruit crops is much less than field crops. ☐
- vii) Black pepper is known as 'king of spices'. ☐
- viii) The economic / edible part of ginger is called 'corm'. ☐

2. Fill in the blanks of the following (*any five*):

1×5=5

- i) Deficiency of vitamin C leads to _____ disease.
- ii) Economic part of black pepper is _____.
- iii) _____ is known as a root promoting hormone.
- iv) According to experts, per day per capital requirement of vegetables is _____ gram.
- v) In horticulture, _____ % post-harvest losses are generally noticed.
- vi) Indian Institute of Vegetable Research located at _____.
- vii) Guava is commonly propagated by _____ method.
- viii) _____ is the costliest spices in the world.

3. Answer in brief *any five* of the following questions:

2×5=10

- i) Veneer grafting

ii) Rhizome

iii) Aromatic plants

iv) Scion

v) Polyhouse

vi) Tree spice

vii) Pruning

viii) Cold frame

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Part–II

(Descriptive Type)

Time : 1.5 Hours

Full marks : 30

Questions are of value as indicated in the margin.

Answer **any three** questions .

4. Write in brief the importance of horticulture in India. Write on different branches of horticulture with suitable examples and their importance. 5+5=10
 5. Discuss on the following aspects (**any two**): 5×2=10
 - a) Role of fruits and vegetables in human nutrition.
 - b) Importance of Floriculture in India.
 - c) Micro-propagation and its usefulness
 6. Define propagation. Enlist different methods of vegetative propagation with suitable examples. What are the advantages of vegetative propagation over sexual propagation? 2+6+2=10
 7. Write in brief about the importance of grafting. Write also on the topics: role of rootstock, stock and scion relationship and graft incompatibility. 3+2+2.5+2.5=10
 8. Answer in brief (**any four**): 2.5×4=10
 - (a) Shade net house
 - (b) Components of a model nursery
 - (c) Propagation by cutting
 - (d) Hedge vs. edge
 - (e) Runner vs. sucker
 - (f) Callus culture
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