

Board of Departmental Examination, Himachal Pradesh
Departmental Examination, June, 2018

Paper No. 3 Rules & Acts for the Technical Officers of Horticulture Department.

Max. Marks: 100
Time allowed: 3 Hrs

- Notes: 1. Attempt any five questions in all.
2. Question No.1 is compulsory.
3. All questions carry equal marks.
4. Books are not allowed inside examination hall.

Q.No. I. Describe the following:

- (i) Erratic trend of fruit production in Himachal Pradesh; What are the interventions required for management thereof ?
- (ii) Major objectives of World Bank funded H.P. Horticulture Development Project; Describe in brief its main component pertaining to Horticulture Department.

(2 x 10 = 20)

Q.No.II. Write short notes on (any four) of the following :

- (i) Bio-fertilisers and their role in sustainable agriculture.
- (ii) Integrated Pest Management and its components.
- (iii) Scope for organic farming in horticulture.
- (iv) Citrus decline and its management.
- (v) Apple Replant Disease and its management.

(4 x 5 = 20)

Q.No.III. Differentiate (any four) of the following :

- (i) Quarantine and Post-entry quarantine.
- (ii) Cold store & CA Store.
- (iii) Bio-fertilisers and bio-pesticides.
- (iv) Seedling & Clonal rootstocks.
- (v) Polliniser & Pollinator.

(4 x 5 = 20)

Q.No. IV.

1. Describe the role of Micro-nutrients in balanced development of fruit plants. What are the deficiency symptoms of Calcium, Boron, Zinc and Iron; how can one overcome the same.
2. Which is the Nodal Department for implementation of Insecticides Act, 1968 in H.P.? Describe the role and responsibilities of an Insecticides Inspector.

(2 x 10 = 20)

Q.No. V. Write short notes on any four of the following :

- (i) Role of sanitation in disease management in an orchard.
- (ii) Deficiency symptoms of Nitrogen, Potash and Phosphorus in plants.
- (iii) Soil and tissue analysis for better crop management.
- (iv) Canopy management in stone fruits.
- (v) Importance of Mulching in orchards.

(4 x 5 = 20)

Q.No. VI. How will you manage the following ?

- (i) Bee colonies during pollination in an orchard.
- (ii) Attack of wax moths in bee colonies.

(2 x 10 = 20)

Q.No. VII. Describe in brief (any four) of the following:

- (i) Incentives for on farm water management under MIDH.
- (ii) Community Caning Service.
- (iii) Market Intelligence and its use in horticulture.
- (iv) Ways and means to reduce post-harvest losses in horticulture.
- (v) Rain water harvesting and its judicious use in crop production.

(4 x 5 = 20)

Q.No. VIII. How will you control the following ?

- (i) Citrus canker.
- (ii) Anar butterfly.
- (iii) Mango hopper.
- (iv) Citrus psylla.
- (v) Mango malformation.

(5 x 4 = 20)