

Board of Departmental Examination, Himachal Pradesh
Departmental Examination, April, 2017

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) Challenges in present scenario of horticulture in Himachal Pradesh.
- (ii) HP Nurseries cum Demonstration Orchards Development & Management Society – New approach to manage PCDOs.
- (iii) Post harvest management of horticultural crops.
- (iv) Reasons for depletion of bee-flora in HP

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

(4 x 5 = 20)

- (i) Solar fencing; its scope and limitations.
- (ii) Scope of High Density Plantation of fruit crops in HP.
- (iii) Specific Apple Replant Disease and its management.
- (iv) Citrus decline and its management.
- (v) Rain water harvesting and its judicious utilization in horticulture.

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

(4 x 5 = 20)

- (i) *Apis indica* & *Apis mellifera*.
- (ii) Polliniser & Pollinator.
- (iii) Seedling & Clonal rootstocks.
- (iv) Contact & Systemic pesticides.
- (v) Quarantine and Post-entry quarantine.
- (vi) Cold store & CA Store.

(5 x 4 = 20)

Q.No. IV.

1. Describe the role and responsibilities of (i) Insecticides Inspector and (ii) Insecticides Analyst under Insecticides Act, 1968. Which is the Nodal Department for its implementation in HP ?
2. What are the penalties laid down in HP Fruit Nurseries Registration Act, 2015 for violations by a nurseryman ? Who is Appellate Authority under the Act.

(2 x 10 = 20)

Q.No. V. Write short notes on (any five) of the following :

- (i) Importance of Weather Based Crop Insurance Scheme for fruit crops.
- (ii) Use of pheromones in insect control.
- (iii) Deficiency symptoms of Boron, Copper & Zinc
- (iv) Important clonal rootstocks of apple and stone fruits.
- (v) Varroa mite- a threat to beekeeping.
- (vi) Objectives of Market Intervention Scheme.

(5 x 4 = 20)

Q.No. VI. Describe in brief with examples (any four) of the following :

- (i) Bio pesticides.
- (ii) Bio fertilizers.
- (iii) Bio-control.
- (iv) Value addition in fruits.
- (v) Use of Plant Growth Regulators in horticulture.
- (vi) Physical and mechanical control of pests and diseases.

(4 x 5 = 20)

Q.No. VII. How will you manage (any four) of the following :

- (i) Apple Rejuvenation Scheme.
- (ii) Risks of pesticides resistance in agriculture.
- (iii) Usefulness of Community Caning Service.
- (iv) Salient features of Rashtriya Krishi Vikas Yojna.
- (v) Incentives for water management and mechanization under MIDH.

(4 x 5 = 20)

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

- (i) Excessive vegetative growth in fruit trees.
- (ii) Manipulation in soil pH.
- (iii) Wax moths in a bee hive.
- (iv) Swarming in honeybees.
- (v) Fruit flies in Guava.

(4 x 5 = 20)