

Board of Departmental Examination, Himachal Pradesh Departmental Examination..O.C.T.O.B.E.R., 2016.

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

MM: 100

Time Allowed: 3 hrs.

- Notes: 1. Attempt any five questions ^{which in all} ~~carry equal marks~~. First question is compulsory.
2. All questions carry equal marks.
3. Books are not allowed inside Examination Hall.

Q. No. 1(i) Describe in detail about the salient feature of Himachal Pradesh Pest Diseases and Obnoxious weeds Act, 1969. (12)

(ii) Role of organic farming and its promotion in Horticulture Crops. (4)

(iii) Importance of Integrated Pest Management. (4)

Q. No. 2. Write a short note on the following:

(i) Division of labour / caste system on honey bees and their roles in bee colony (8)

(ii) Enumerate the factors affecting granulation of honey (4)

(iii) What are the most common equipments used for rearing of Honey Bees in modern apiary. (4)

(iv) Different types of assistance with subsidy pattern and amount available under MIDH for Bee Keeping. (4)

Q. No. 3. Differentiate any four of the following:

(i) Central Leader System and Modified Training System in fruit trees.

(ii) American Foul Brood & European Foul Brood disease of Honey Bees.

(iii) Drip Irrigation System and Sprinkler Irrigation System.

(iv) Parasitoids and Predators.

(v) Chlorinated Hydrocarbons and Organo Phosphorus Insecticides.

(vi) Tricogramma and Tricoderma.

(vii) Universal Carton and Telescopic Carton.

(4x5)=20

Q. No. 4.(i) Describe in detail about deficiency symptoms of any three major nutrients and three minor nutrients of Apple fruit plants and their remedial measures. (12)

(ii) Write in brief about the sampling techniques for collection and analysis of Mango and Citrus fruits (8)

Q. No. 5.(i) Importance of Weather Base Crop Insurance Scheme for fruit crops.

- (ii) What are the main salient features of World Bank Aided – H.P. Horticulture Development Project.

(10x2)=20

Q. No. 6.(i) What are the important precautions which have to be kept in mind while handling hazardous pesticides during foliar application / operations in Agriculture/Horticulture crops.

(10)

- (ii) In contrast to the past 25-30 years there had been sea variations in climate change. Being technical officer what strategy has to be followed to cope with the present situation in relation to horticulture crops.

(5)

- (iii) Write a short note of Pradhan Mantri Krishi Sinchayee Yojna (PMKSY).

(5)

Q. No. 7. Write a short note on any four of the following along with their scientific name and control measures:

- (i) Anar Butter Fly.
- (ii) Woolly Apple Aphid.
- (iii) Root Rot Disease of Apple.
- (iv) Mango Mealy Bug.
- (v) Citrus Leaf Minor.
- (vi) Litchi Mite.
- (vii) Codling Moth of Apple.

(4x5) = 20

Q. No. 8. Write a short note of any five of the followings:

- (i) Role of microbes in sustainable agriculture.
- (ii) Importance of Soil Borne Phosphate Solubilizing Micro-organisms.
- (iii) Vermicompost technique for promotion of organic farming.
- (iv) Role of Bio agents in Pest Suppression.
- (v) Control of fruit cracking in Pomegranate.
- (vi) Aims of fruit & vegetable preservation.
- (vii) Different type of grades of Apple and Peach fruit crops.

(5x4)=20