

**Board of Departmental Examination, Himachal Pradesh**  
**Departmental Examination, April, 2014**

**Paper: -3      Rules and Acts for the Technical Officers of Horticulture Department**

**MM: 100**  
**Time allowed: 3 Hrs**

Notes:

1. Attempt ~~five~~ <sup>in all</sup> five questions. First question is compulsory.
2. All questions carry equal marks.
3. Books are not allowed inside the examination hall.

- Q.N. 1      Write short notes on the following :-
- (i) Problem of Horticulture Industries in the State.
  - (ii) What are the norms of assistance for the area expansion under fruit crops, creation of water resources, organic farming, protected cultivation and anti hail nets under the centrally sponsored Horticulture Mission for North East and Himalayan States (HMNEH)  
(10+10)= 20
- Q.N. 2      Write briefly on the following:-
- (i) Botanical names of Plum, Apple, Banana, Cherry and Strawberry
  - (ii) Mango malformation
  - (iii) Constraint in strawberry cultivation
  - (iv) Integrated Nutrient Management(INM)
  - (v) Pollination in Kiwi fruit plants  
(5x4)=20
- Q.N. 3      What are the main reasons for low productivity in Apple orchards in Himachal Pradesh?  
How it can be improved?  
20
- Q.N. 4      Write briefly on following
- (i) Role of clonal rootstocks in enhancing productivity of Apple fruit crop.
  - (ii) Processed products & value addition.
  - (iii) Name two important diseases affecting Mango and Citrus fruit crops & suggest control measure.
  - (iv) Norms of assistance under National Mission on Micro-Irrigation (NMMI)  
(4x5)=20
- Q.N. 5      Write short notes on any four of the following :-
- (i) Role of HPMC in the Development of Horticulture Industry of the State.
  - (ii) Migratory bee keeping
  - (iii) Incentives available for beekeeping under the state plan & central sponsored schemes
  - (iv) Integrated pest management (IPM).
  - (v) Norms of assistance for training of famers under State Plan Scheme.  
(4x5)=20

(P.T.O)

Q. N. 6 Write briefly on any four of the following points

- (i) Control of frost in Mango
- (ii) Modern Technique for control of hail storm
- (iii) Canopy management in fruit crops
- (iv) Important features of Weather based Crop Insurance Scheme
- (v) Bio- fertilizer

(4x5)=20

Q.N. 7 Write short notes on the following

- (i) Nutritional value of mushroom
- (ii) Scope of cut flower cultivation in the State.
- (iii) Major constraints in marketing of mushroom
- (iv) What are major natural calamities affecting fruit crops? How we can combat it?

(4X5)=20

Q.N. 8 Write briefly on following

- (i) List out constraints in implementation of Himachal Pradesh Fruit Nurseries Registration Act, 1973
- (ii) What is the importance of leaf sampling in fruit trees? What is the time of leaf sampling of Mango, Litchi, Kinnow, Peach & Almond fruit trees?
- (iii) What are control measures for attack of fruit fly in Guava?
- (iv) What is the Market Intervention Scheme (MIS)?

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(4X5)=20