

**H.P.BOARD OF DEPARTMENTAL EXAMINATION
DEPARTMENTAL EXAMINATION OF OTHER GAZETTED OFFICERS/
OFFICIALS OF HIMACHAL PRADESH SESSION APRIL, 2010**

PAPER-3 (RULES AND ACTS FOR HORTICULTURE DEPARTMENT)

Time Allowed: 3 Hours.

Maximum Marks: 100

- Notes:-** 1. Attempt any five questions. First question is compulsory.
2. All questions carry equal marks.
3. Books are not allowed inside the examination hall.
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Q.No.1 Enlist various schemes being implemented by the Department of Horticulture Under State and Centre Plans. Discuss in detail any two State Plan schemes Being implemented for the welfare of the farming community. **(20 marks)**

Q.No.2 a) Write short notes on the following:-

- (i) Canopy management in Apple trees.
- (ii) Fruit drop and its causes.
- (iii) Incompatibility in propagation.
- (iv) Inducing precocity in Apple.
- (v) Methods of multiplication of clonal root stock.
- (vi) Difference between summer and winter Spray oils.
- (vii) Name major pests and diseases of Mango in Himachal Pradesh.
- (viii) Major constituents of Honey.
- (ix) Major commercial varieties of Pomegranate in H.P.
- (x) Problems of Circus Cultivation in H.P.

(10 x 2 = 20 marks)

Q.No.3 (1) Discuss in brief any four of the following:-

- (i) Compost Production for White Button Mushroom.
- (ii) Mushroom Spawn Production.
- (iii) Growing of White Button Mushroom
- (iv) Use of Spent Compost.
- (v) Marketing of Mushroom.

(5 x 2 = 10 marks)

(2) The Beeking Industry of the State of Himachal Pradesh is under going critical Phase. What are the threats and how can they be overcome? **(10 marks)**

Q.No.4 Discuss in detail the various components, services and incentives being Provided to the farmers under Horticulture Technology Mission by Department Horticulture Himachal Pradesh. **(20 marks)**

Q.No.5 (1) Expand following:-

- (i) HPMC
- (ii) HPAIC
- (iii) HPKVIB
- (iv) NIRD
- (v) MANAGE
- (vi) NHB
- (vii) NAARM
- (viii) APEDA
- (ix) FAO
- (x) SAMETI

(10 x 1 =10 marks)

(2) What are the future strategies for sustainable horticultural development in Himachal Pradesh?

(10 marks)

Q.No.6 Multiple choice Questions:-

(i) Mango is mainly propagated by:

- (a) layering (b) Bride Grafting (c) Cleft Grafting (d) Veneer Grafting.

(ii) True to type plants are obtained from the seeds of”

- (a) Guava (b) Ber (c) Pomegranate (d) Sweet Orange.

(iii) The dwarfing root stock for Mandrin is:

- (a) Jatti Khatti (b) Kharna Khatta (c) Sweet Orange (d) Trifoliate Orange.

(iv) The dwarfness in apple is induced if grafted on:

- a) Apple Seedling (b) Malling 26 (c) Malling 796 (d) Malling Marton 111.

(v) The name of Mandrin Hybrid is:

- (a) Pearl tangelo (b) Citrange (c) Coorgmandrin (d) Kinnow.

(vi) Lucknow 49 is the variety of:

- (a) Guava (b) Ber (c) Mango (d) Karonda.

(vii) The fruit only ripens after harvest:-

- a) Mango (b) Sweet Orange (c) Avocado (d) Sapota.

(viii) The fruit which can be commercially grown only under Sub- Tropical Conditions:

- (a) Guava (b) Grapes (c) Litchi (d) Mangos teen.

(ix) The fruit contains highest Vitamin C:

- a) Golden b) Citrus c) Litchi d) Anola

- (x) The leading variety of Apple grown in Himachal Pradesh:
a) Golden Delicious b) Ambri © Gloster d) Royal Delcious
- (xi) The Apple fruit are of high quality from:
a) Shimla b) Kinnaur c) Rajgarh d) Karsog.
- (xii) Sweet Orange variety known as:-
a) Pineapple b) Nagpur Santra c) Coorg Orange d) Kinnow.
- (xiii) Dormancy of seeds of peach can be overcome by the use of:
a) NAA b) Gibberellic Acid c) 2, 4-D d) Gramaxona
- (xiv) The spongy tissue formation on mango is due to:
a) Pathological infection b) Physiological disorder c) Inssect attack
d) Nutritional deficiency.
- (xv) The fruit which can be grown under more water stress:
a) Pomegranate b) Ber c) Guava d) Mango. **(15 x 1 = 15 marks)**

Q.No.7 Briefly describe any four of the following:-

- (i) Implication of WTO on trade.
- (ii) Use of Remote Sensing in Horticulture.
- (iii) Role of woman in horticulture development.
- (iv) Orchard floor management.
- (v) Salient features of Weather Based Crop Insurance.
- (vi) Reasons for low productivity in Apple. **(4 x 5 = 20 marks)**

Q.No.8 Discuss any one of the following:-

- (i) H.P. Fruit Nurseries Registration Act, 1973.
- (ii) H.P.Agricultural Pests, Diseases and Naxious Weeds Act, 1969. **(20 marks)**
