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**Time : 2 Hours****HORTICULTURE (E)****(Pre-Vocational)****Subject Code**

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**Total No. of Questions : 4****(Printed Pages : 4)****Maximum Marks : 40**

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**INSTRUCTIONS :** (i) *All* questions are compulsory.(ii) There are *four* questions of **10** marks each.

(iii) Solve each question on a fresh page.

(iv) Figures to the right indicate full marks.

1. (A) Fill in the blanks by choosing the correct alternative from the bracket : 2

(i) Filler is an additional plant, planted at the centre of each square in ..... system of planting fruit crops.

(Rectangular, Quincunx, Triangular, Square)

(ii) Layout plan of Orchard includes ..... .

(labour, market, transport, store house)

(B) State any *four* points to be considered while selecting site for cultivation of horticulture crops. 2

(C) Answer the following questions in **4** to **5** sentences each : 6

(i) Explain Square system of planting Horticulture crops with the help of diagram.

(ii) Write a short note on procedure for Digging and re-filling of the pit for planting fruit crops.

(iii) Explain contour system of planting fruit crops.

2. (A) Match the following : 2

| <b>Pest</b>           | <b>Crop</b> |
|-----------------------|-------------|
| (i) Rhinoceros beetle | (a) Banana  |
| (ii) Tea mosquito     | (b) Coconut |
|                       | (c) Cashew  |

(B) Define the term 'Training' of fruit plants. 1

(C) Answer the following questions in **4** to **5** sentences each : 4

(i) List out any *four* objectives of Pruning in fruit plants.

(ii) Explain Open Centre System of Training fruit crops with diagram.

(D) Write the nature of damage and control measure for Mango stem borer. 3

3. (A) Draw the diagrams showing following systems of irrigation in fruit crops : 2
- (i) Ridge and Furrow method
- (ii) Ring and Basin method.
- (B) What is irrigation ? 1
- (C) Answer the following questions in **4** to **5** sentences each : 4
- (i) Write *two* points of difference between Macro-nutrients and Micro-nutrients. Give suitable examples.
- (ii) State any *four* advantages of Sprinkler irrigation system.
- (D) List any *three* deficiency symptoms of Nitrogen observed in plants. 3
4. (A) Write any *two* maturity indices of the following fruits : 2
- (i) Coconut
- (ii) Banana.
- (B) Write any *four* uses of Auxins used as plant growth regulator in Horticulture crop. 2
- (C) Answer the following questions in **6** to **7** sentences each (any *two*) : 6
- (i) Briefly explain the important steps involved in the technique of Softwood grafting method of propagation in Cashew with diagram.

- (ii) Explain Coconut cultivation with special reference to :
  - (a) Tall varieties
  - (b) Spacing
  - (c) Selection of seedlings.
- (iii) Explain banana cultivation with special reference to :
  - (a) Varieties
  - (b) Spacing
  - (c) Aftercare to be taken.