

2025 III 17

0930

Seat No.

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Time : 1½ Hours

HORTICULTURE (E)

(Pre-Vocational)

Subject Code

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Total No. of Questions : 4

(Printed Pages : 4)

Maximum Marks : 40

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) system of planting fruit crops accommodates double number of plants than square system.

(Quincunx, Triangular, Rectangular, Hexagonal)

(ii) Lay out plan of an orchard includes

(Labour, market, store-house, transport)

(B) Draw the diagram and explain “square system” of planting fruit crops. 2

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

- (i) State any *four* points to be considered while selecting site for cultivation of fruit crops.
- (ii) Explain the contour system of planting fruit crops.
- (iii) Briefly explain the procedure of digging and refilling of pit for planting fruit plant.

2. (A) Match the following : 2

Pests	Crops
(i) Tea mosquito	(a) Mango
(ii) Red palmweevil	(b) Cashew
	(c) Coconut

(B) Define the term 'Pruning' of fruit plants. 2

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

- (i) List out any *four* objectives of pruning in fruit plants.
- (ii) Explain Open Centre System of Training fruit crops.
- (iii) Explain nature of damage and management of mango stem borer.

3. (A) Draw the diagrams showing the following systems of irrigation : 2

- (i) Ridge and Furrow method
- (ii) Ring and Basin method.

(B) Write any *two* advantages of partial flooding method of irrigation. 1

(C) Name any *two* carriers of potassium nutrient element in plants. 1

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

(i) What are macro-nutrients ? Give examples.

(ii) State the advantages of sprinkler irrigation system.

(iii) Write the criteria for essentiality of nutrient element.

4. (A) Write the maturity indices of the following fruits : 2

(i) Mango

(ii) Coconut.

(B) State any *four* uses of Auxins in Horticulture. 2

(C) Answer the following questions in 6 to 7 sentences each (any *two*) : 6

(i) With reference to the following points explain commercial cultivation of Banana :

(a) Varieties

(b) Propagation

(c) Planting distance.

- (ii) Explain Coconut cultivation with special reference to :
 - (a) Tall varieties
 - (b) Spacing and pit size
 - (c) Selection of seedlings.
- (iii) Briefly explain the important steps involved in the technique of soft wood grafting in cashew.