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Time : 2 Hours**OLERICULTURE****Subject Code**

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Total No. of Questions : 4**(Printed Pages : 4)****Maximum Marks : 50**

- INSTRUCTIONS :**
- (i) All questions are compulsory.
 - (ii) Figures to the right indicate full marks.
 - (iii) Draw diagram wherever necessary.
 - (iv) Start each question on fresh page.

1. (A) Name the following : 3
- (i) The insect pest of pumpkin, the maggots of which, feed on the internal tissue of the fruits causing premature fruit drop.
 - (ii) The botanical name of muskmelon.
 - (iii) The colour used to indicate extreme level of toxicity in pesticides.
- (B) Answer the following questions in *one or two* sentences : 3
- (i) State *two* varieties of bhendi resistant to yellow vein mosaic disease.
 - (ii) State vegetative parts used to propagate sweet potato.
 - (iii) How does staking help in Dioscorea cultivation ?
- (C) Answer the following in **40-60** words : 4
- (i) Discuss in detail, planting of sweet potato using vine cuttings.
 - (ii) Discuss cultivation of pumpkin with respect to climatic requirement and trailing.

2. (A) Match the pairs : 3

A

- (i) Dioscorea
- (ii) Radish
- (iii) Long bean

B

- (i) Vigna sesquipedalis
- (ii) Arka suryamukhi
- (iii) Propagated by tubers
- (iv) Arka Nishant

(B) Answer the following questions in *one or two* sentences each : 3

- (i) State *two* harvesting indices of muskmelon.
- (ii) What is the spacing recommended for watermelon cultivation ?
- (iii) How are the elephant foot yam corms stored for seed purpose ?

(C) Write short notes on the following : 4

- (i) Uses of sweet corn
- (ii) Harvesting of radish.

3. (A) State true *or* false : 3

- (i) The Amorphophallus corms are highly susceptible to poor drainage conditions.
- (ii) Maharashtra is the leading state in India in onion production.
- (iii) Mature watermelon fruit produces metallic sound when thumped.

(B) Answer the following questions in *one or two* sentences : 3

- (i) What is the soil requirement for cultivating bhendi ?
- (ii) Name *two* improved varieties of cluster bean developed by IARI, Pusa.
- (iii) State the edible parts of drumstick plant.

(C) Answer the following : 6

- (i) Discuss harvesting and post harvest curing in onion.
- (ii) Discuss cultivation of yard long bean with respect to varieties and support.
- (iii) Discuss cultivation of cluster bean with reference to sowing and manuring.

(D) State *six* advantages of use of hydrogen peroxide with silver in disinfection of soil. 3

Or

- (D) (i) Draw neat labelled diagram of beds (showing all the required dimensions) used for planting of cucumber in polyhouse. 2
- (ii) State the material components of beds used for cucumber cultivation in polyhouse. 1

4. (A) Fill in the blanks : 3

- (i) The age of the capsicum seedlings used for transplanting in polyhouse should be.....
- (ii) The yellow vein mosaic disease in bhendi is transmitted by..... insect.
- (iii) The curry leaf is vegetatively propagated by.....

(B) Answer the following in *one or two* sentences : 3

- (i) How do aphids affect bhendi crop ?
- (ii) What is the material used to train cucumber vines in polyhouse ?
- (iii) State *two* improved varieties of capsicum recommended for cultivation in polyhouse in Goa.

- (C) Answer the following : 6
- (i) Discuss in detail about harvesting of capsicum fruits in polyhouse cultivation.
 - (ii) Discuss cultivation of curry leaf with reference to training and pruning and harvesting.
 - (iii) State *four* uses of drumstick plant.
- (D) State *six* precautions to be taken while spraying pesticides to avoid human health hazards. 3

Or

- (D) State signs and symptoms of pesticide poisoning seen in human being. 3