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GIET UNIVERSITY, GUNUPUR – 765022

B. Tech (Fourth Semester – Regular) Examinations, June – 2021

BPCAG4010 – Principles of Horticultural Crops and Plant Protection

(Agricultural Engineering)

Time: 2 hrs

Maximum: 50 Marks

Answer ALL Questions

The figures in the right hand margin indicate marks.

PART – A: (Multiple Choice Questions)

(1 x 10 = 10 Marks)

Q.1. Answer ALL questions

[CO#] [PO#]

- | | | |
|---|--------------------|-----|
| a. Which of the following is a temperate fruit crop ? | 1 | 1 |
| (i) Mango | (ii) Banana | |
| (iii) Apple | (iv) Litchi | |
| b. Vitamin A is an important constituent in which fruit crop ? | 1 | 1 |
| (i) Mango | (ii) Sapota | |
| (iii) Pineapple | (iv) Aonla | |
| c. The cultivation of fruit crops is called as | | |
| (i) Pomology | (ii) Olericulture | 1 1 |
| (iii) Arboriculture | (iv) Floriculture | |
| d. Which of the following fruit is not suitable for hot Arid region ? | 2 | 1 |
| (i) Banana | (ii) Ber | |
| (iii) Pomegranate | (iv) Aonla | |
| e. Ginger is propagated by | 2 | 1 |
| (i) Bulb | (ii) Corm | |
| (iii) Runner | (iv) Rhizome | |
| f. 'Knob' is the edible part of which vegetable ? | 3 | 1 |
| (i) Carrot | (ii) Turnip | |
| (iii) Colocasia | (iv) Knolkhol | |
| g. Number of plants required for planting mango in 2 hectare of land at a spacing of 10m x 10m is | 3 | 1 |
| (i) 100 | (ii) 500 | |
| (iii) 200 | (iv) None of these | |
| h. Which of the following vegetable is a dioecious vegetable ? | 3 | 1 |
| (i) Bottle gourd | (ii) Pointed gourd | |
| (iii) Pumpkin | (iv) Bitter gourd | |
| i. Which of the following is used as cut flower ? | 4 | 1 |
| (i) Marigold | (ii) Jasmine | |
| (iii) Gladiolus | (iv) None of these | |
| j. Botanically pineapple fruit is | 4 | 1 |
| (i) Balaustra | (ii) Sorosis | |
| (iii) Berry | (iv) Pome | |

PART – B: (Short Answer Questions)**(2 x 5 = 10 Marks)**Q.2. Answer **ALL** questions

[CO#] [PO#]

- | | | |
|--|---|---|
| a. Maturity indices of Papaya, Banana and Guava | 1 | 1 |
| b. Preventive measures for control of pest and diseases in Horticultural crops | 2 | 1 |
| c. Classification of Horticultural plants based on temperature requirement | 2 | 1 |
| d. Characteristics of ideal soil for Horticultural crops | 3 | 1 |
| e. Different methods of seed extraction | 4 | 1 |

PART – C: (Long Answer Questions)**(6 x 5 = 30 Marks)**Answer **ANY FIVE** questions

Marks [CO#] [PO#]

- | | | | |
|---|-----|---|---|
| 3. Define Horticulture. Write in brief the scope and importance of Horticulture in India | (6) | 1 | 1 |
| 4. Write down the influence of climatic factors on growth and yield of Horticultural crops | (6) | 1 | 1 |
| 5. Describe the five important varieties of tropical fruits, solanaceous vegetables and cut flowers in tabular form. | (6) | 2 | 1 |
| 6. Write in brief the post-harvest handling of horticultural crops to reduce the losses at different stages. | (6) | 2 | 1 |
| 7. Why pruning and training are necessary in horticultural crops, describe with example. | (6) | 3 | 1 |
| 8. What do you mean by propagation? Explain briefly about the merits and demerits of sexual method of propagation. Write the different vegetative methods of propagation. | (6) | 3 | 1 |
| 9. What is micro-propagation? What are the merits and demerits of micro-propagation? Give suitable examples of horticultural crops propagated by this method. | (6) | 4 | 1 |
| 10. Write in detail about different types of manures. What are the merits of application of manures in orchard? | (6) | 4 | 1 |

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