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**GANDHI INSTITUTE OF ENGINEERING AND TECHNOLOGY UNIVERSITY,
ODISHA, GUNUPUR
(GIET UNIVERSITY)**

**B. Sc. (Ag.)(Fourth Semester) Examinations, April – 2025
HORT-224 - Production Technology for Ornamental, MAP &
Landscaping**

Time: 2 hrs

Maximum : 50 Marks

The figures in the right hand margin indicate marks.

PART – A

Q.1. Fill in the blanks with suitable word / figure.

(0.5 x 10 = 5 Marks)

- Best quality of jasmine oil obtained from..... Jasmine species
- Isabgol husk is made up ofand
- Slab side in carnation is due to.....
- Queen of orchid.....
- First Blue colour variety of rose.....
- Summer flowering cultivar of chrysanthemum.....
- Chemical compound present in periwinkle.....
- Lemon grass harvesting starts from.....months after planting
- Scientific name of Bergamout mint.....
- Chemical compound present in costus.....

Q. 2. Define (or) Explain the following in one or two sentences.

(1 x 5 = 5 Marks)

- Coppicing
- Resupination
- Hedge and Edge
- Disbudding in rose
- Geotropical bending in gladiolus

Q3. Match the following

(0.5 x 10 = 5 Marks)

Column – A

Column – B

- | | |
|----------------------|-------------------------|
| (a) Isabgol | (i) Roots |
| (b) Lily | (ii) Isabgol |
| (c) French Marigold | (iii) Tuberose |
| (d) Sugandhi | (iv) Husk |
| (e) Niharika | (v) Boron Deficiency |
| (f) Vetiver | (vi) Purity |
| (g) Calyx splitting | (vii) Lemon grass |
| (h) Topple | (viii) Jealously |
| (i) African Marigold | (ix) Calcium Deficiency |
| (j) Arka Sugandhi | (x) Vulgar mind |

Q4. Write True or False against each statement

(0.5 x 10 = 5 Marks)

- a. Tissue culture media used for orchids is knudson
- b. Chrysanthemum is day neutral plant
- c. Solvent used for jasmine oil extraction is methanol
- d. Harvesting stage of carnation is paint brush stage
- e. Purification of oil done by diethyl ether
- f. Commercially Palmarosa is propagated by slips
- g. Dendrobium orchids contains largest number of species in orchids
- h. Providing external support to carnation is called as netting
- i. Chemical present in mint is eugenol
- j. Placing the flower stem in water is called as precooling

PART – B

Attempt ANY FIVE questions. All question carries equal marks

(6 x 5 = 30 Marks)

- 5. Describe the production technology of periwinkle along with processing?
- 6. Discuss about propagation methods followed in monopodial and sympodial orchids?
- 7. Write the cultivation practices followed for tuberose along with varieties?
- 8. List out and describe the special intercultural operations followed in chrysanthemum?
- 9. Discuss about physiological disorders in rose along with causes, symptoms and control measures?
- 10. Write the scientific name, family, chemical compound present in the following crops
Lemon grass, Vetiver, Isabgol, Palmarosa, Geranium and Sarpagandha

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