



**GIET UNIVERSITY, GUNUPUR – 765022**  
**B. Sc (AG) (First Semester) Examinations, June – 2021**  
**HORT-111– Fundamentals of Horticulture**

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)

- \_\_\_\_\_ is commercially used as propagating material in Strawberry.
- \_\_\_\_\_ is known as the ripening hormone.
- Banana belongs to family\_\_\_\_\_.
- \_\_\_\_\_ is having highest ascorbic acid content among fruit crops.
- Application of fertilizer along with irrigation water is known as \_\_\_\_\_.
- \_\_\_\_\_ number of mango plants is required for 1 ha of land with 10mX10m spacing using square method of planting.
- IIHR stands for \_\_\_\_\_.
- ICAR- Directorate of Medicinal and Aromatic Plants Research is located at \_\_\_\_\_
- \_\_\_\_\_ variety of mango is suitable for High density planting.
- In hilly area, \_\_\_\_\_system of planting is followed.

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

(1 x 5 = 5 Marks)

- Propagation
- Training
- Parthenocarpy
- Landscaping
- Fertigation

**Q3. Match the following**

(0.5 x 10 = 5 Marks)

Column – A			Column – B	
(a)	Paclobutrazole		(i)	Pruning
(b)	Open Centre		(ii)	Cole crop
(c)	Cauliflower		(iii)	Root initiation
(d)	Lemon grass		(iv)	Aromatic crop
(e)	IBA		(v)	Plantation crop
(f)	Lawn		(vi)	Training
(g)	Thinning out & Heading back		(vii)	Propagating structure
(h)	Coffee		(viii)	Mowing
(i)	Lath house		(ix)	Medicinal plant
(j)	Sarpagandha		(x)	Flowering hormone

**Q4. Write True or False against each statement**

**(0.5 x 10 = 5 Marks)**

- a. The condition where flower cannot be fertilized by the pollen of the same is called Self incompatibility
- b. Water use efficiency is the ratio of Yield / Evapotranspiration.
- c. Contour system of planting is followed in Hilly areas
- d. Mulching decreases water holding capacity of the soil.
- e. Paraquat is used as pre-emergence herbicide in fruit orchard.
- f. Soil alkalinity can be overcome by Lime application
- g. *Allium cepa* is the botanical name of Chilli.
- h. The active ingredient found in Cinchona used for curing Malaria is Quinine.
- i. When stamens mature first than the carpel, it represents Protogyny condition.
- j. Growing vegetables in the residential houses to meet requirement of the family is known as Hydroponics

**PART – B**

**Attempt ANY FIVE questions. All question carries equal marks**

**(6 x 5 = 30 Marks)**

5. What do you mean by manure and fertilizer? Give a brief note on fertilizer application in horticultural crops.
6. What do you mean by Plant Propagation? Write in brief about various methods of propagation followed in fruit crops.
7. Write short notes on: a) Principles of orchard management b) Kitchen gardening.
8. Differentiate between training and pruning? Explain in brief about various types of training followed in fruit orchard?
9. Write the systems of irrigation adopted in fruit orchard?
10. Write short notes on a) Scope and importance of Horticulture in India b) Mulching

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