



**GIET UNIVERSITY, GUNUPUR – 765022**  
**B. Sc. (Ag.) (First Semester) Regular Examinations, January – 2024**  
**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)**

- a. .... Vegetable is having highest vitamin A content.
- b. Removal of unwanted parts of plant is called as.....
- c. Removal of apical portion to encourage lateral growth is called.....
- d. Scientific name of Aloe vera.....
- e. Application of fertilizer along with water is called as .....
- f. Layering is the ..... method of propagation technique.
- g. The marking of position of the plant in the field is called.....
- h. Botanical name of Onion.....
- i. Process of covering soil with organic or inorganic material is called .....
- j. Study of vegetables is called as.....

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

**(1 x 5 = 5 Marks)**

- a. Nursery
- b. Pomology with example
- c. Weeding
- d. Plantation crop with example
- e. Pruning

**Q3. Match the following**

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

Column – A			Column – B	
(a)	Onion		<b>i.</b>	Training
(b)	Carrot		<b>ii.</b>	Ripening hormone
(c)	Gibberellins		<b>iii.</b>	Pruning
(d)	Ethylene		<b>iv.</b>	Cell elongation
(e)	Hedging back		<b>v.</b>	Non climacteric fruit
(f)	Modified leader system		<b>vi.</b>	Climacteric fruit
(g)	Abscissic acid		<b>vii.</b>	IAA
(h)	Auxin		<b>viii.</b>	Apiaceae
(i)	Grape		<b>(ix)</b>	Stomatal closing
(j)	Sapota		<b>(x)</b>	Alliaceae

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

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

- a. Chilli belongs to family solanaceae
- b. Green colour pigmentation on leaves is due to chlorophyll
- c. Market garden is situated nearly 10kms.
- d. Growth hormone used for breaking seed dormancy is ABA
- e. Artificial supply of water is called as Fertigation.
- f. Tree used as wind breaker plant banana
- g. In hilly area square system of planting is followed
- h. Botanical name of rose is *Rosa indica*
- i. Niacin is the chemical name of vitamin B<sub>2</sub>.
- j. Auxins derived from Arabic word.

**PART – B**

**Attempt ANY FIVE questions. All question carries equal marks (6 x 5 = 30 Marks)**

- 5. Define layout, write about different systems of planting?
- 6. Define Olericulture? Classify vegetables based on any 5 categories?
- 7. What is training and pruning? Write about different types of Training followed in plants?
- 8. Define PGR? Write about role of auxin and gibberellins in plant growth and development?
- 9. What is asexual method of propagation? Write in brief about any two budding with diagrams?
- 10. Define climate and write about influence of climatic factors on growth of plants?

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