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GIET UNIVERSITY, GUNUPUR – 765022
B. Sc. (Ag.)(First Semester) Examinations, March – 2023
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. Precursor of ethylene is
- b. system of planting accommodates 9% less plants than square system of planting..
- c. Scientific name of beet root is.....
- d. Author name of Basic Horticulture book is.....
- e. ABA is antagonistic of growth regulator.
- f. Air layering is also called as
- g. Union of male and female gametes to produce zygote is known as.....
- h. Scientific name of Guava is
- i. Application of fertilizer along with water is called as.....
- j. Banana belongs to the family

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

(1 x 5 = 5 Marks)

- a. Formal garden
- b. Kitchen garden
- c. Parthenocarpy
- d. Airlayering
- e. Tropical climate

Q3. Match the following

(0.5 x 10 = 5 Marks)

Column – A		Column – B	
(a)	Sexual propagation	(i)	Non climacteric
(b)	Mango	(ii)	<i>Solanum lycopersicum</i>
(c)	Tomato	(iii)	Mitosis
(d)	Basic Horticulture	(iv)	<i>Solanum melongena</i>
(e)	Potato	(v)	Climacteric
(f)	Asexual propagation	(vi)	Dr Jitendra Singh
(g)	Litchi	(vii)	<i>Solanum tuberosum</i>
(h)	Brinjal	(viii)	Meiosis
(i)	Ethylene	(ix)	Ascorbic acid
(j)	Vitamin C	(x)	Methionine

Q4. Write True or False against each statement

(0.5 x 10 = 5 Marks)

- a. Study of fruit science is called as olericulture
- b. Training is done to shape or build a strong framework of the trees.
- c. Onion belongs to the family anacardiaceae.
- d. Plants which can grow in water scarce conditions are called as mesophyte.
- e. In hilly area square system of planting is followed.
- f. Planting trees at ultra-low spacing is called meadow orchading.
- g. Chemical used for fumigation is captan.
- h. Height of raised bed in nursery should be 15-20 cm.
- i. Growing of grasses as a green carpet is known as lawn.
- j. Transfer of plant from one pot to another pot is known as potting.

PART – B

Attempt ANY FIVE questions. All question carries equal marks

(6 x 5 = 30 Marks)

5. Write down different methods of fertilizer application followed in horticultural crops.
6. What is irrigation? List out various systems of irrigation followed in horticultural crops and explain in brief about any four with diagram.
7. Define green house? Write in brief about classification of greenhouse based on cost.
8. What is asexual method of propagation? Write in brief about budding.
9. Define Horticulture and write about Scope and importance of Horticulture in India?
10. Define climate and write about influence of climatic factors on growth of plants?

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