

B.Sc. DEGREE EXAMINATION, APRIL 2026
BRANCH V(a) – PLANT BIOLOGY AND PLANT BIOTECHNOLOGY
FOURTH SEMESTER

COURSE : MAJOR – ELECTIVE
PAPER : HORTICULTURE
SUBJECT CODE : 23BT/ME/HC45
TIME : 3 HOURS

MAX. MARKS: 100

Q. No	SECTION A		CO	KL
	CHOOSE THE CORRECT ANSWER	(5 X 1 =5)		
1.	The study of vegetables is called _____. a) Olericulture b) Pomology c) Arboriculture d) Floriculture		1	1
2.	Seed viability refers to the _____. a) Size of seed b) Ability to germinate c) Colour of seed d) Weight of seed		1	1
3.	Jasmine flowers are harvested mainly at the _____. a) Fully open stage b) Seed stage c) Bud stage d) Wilting stage		1	1
4.	Which of the following is commonly used in organic nutrient management? a) Urea b) Superphosphate c) Ammonium nitrate d) Compost		1	1
5.	The dwarfing effect in bonsai is primarily achieved through _____. a) Genetic modification b) Restricted root growth and pruning c) Excess fertilization d) Hydroponic cultivation		1	1
6.	FILL IN THE BLANKS. (5 X 1 =5) An excellent growing medium which retains the water capacity of the soil is _____.		CO 1	KL 1
7.	Air layering is also called as _____.		1	1
8.	The primary commercial method of propagating roses is _____.		1	1
9.	The practice of growing and harvesting fruits and vegetables for sale at local markets is called _____.		1	1
10.	A transparent sealed glass container that creates a miniature ecosystem for plants is _____.		1	1
11.	STATE WHETHER TRUE OR FALSE. (5 X 1 = 5) Secateurs are used for cutting branches, de shooting and disbudding.		CO 1	KL 1
12.	The art of shaping plants into different forms or shapes is called Trophy.		1	1
13.	Mango is commercially propagated by seeds.		1	1
14.	Proper waterproofing is necessary for terrace gardens.		1	1
15.	The process of trimming grass to maintain uniform height is called mowing.		1	1
16.	MATCH THE FOLLOWING. (5 X 1 =5) Pruning shears - Neem sprays		CO 1	KL 1
17.	Green house - Silica gel		1	1
18.	Jasmine - Garden adornment		1	1
19.	Organic farming - Garden implement		1	1
20.	Dry flowers - Madurai		1	1

Q. No.	SECTION B ANSWER ANY EIGHT OF THE FOLLOWING IN 50 WORDS.	(8 X 2 =16)	CO	KL
21.	Why are clay pots considered suitable for growing plants?		2	2
22.	Define Hydroponics.		2	2
23.	How will you propagate Potato?		2	2
24.	What is meant by Truck Garden?		2	2
25.	Comment on Ikebana.		2	2
26.	Name the five ingredients used to prepare Panchagavya.		2	2
27.	Distinguish hedges from edges.		2	2
28.	Write short notes on vegetable forcing.		2	2
29.	State any two benefits of mulching.		2	2
30.	How to prolong the vase life of cut flowers?		2	2
Q. No	SECTION C ANSWER THE FOLLOWING IN 200 WORDS.	(4 X 6 =24)	CO	KL
31.	Categorise the various branches of horticulture with examples. (or)		3	3
32.	Write a note on pot culture, its types and significance.		3	3
33.	Give a brief account on any five Garden adornments. (or)		3	3
34.	Reveal the procedure involved in the propagation of Mango.		3	3
35.	Explain the principle and techniques involved in organic horticulture. (or)		4	4
36.	List the steps involved in the establishment of a rock garden.		4	4
37.	Describe the methods of creating a healthy, sustainable lawn. (or)		4	4
38.	Illustrate the technique of a Terrarium.		4	4
Q.No	SECTION D ANSWER THE FOLLOWING IN 1000 WORDS. DRAW DIAGRAMS WHEREVER NECESSARY.	(2 x 20 = 40)	CO	KL
39.	Discuss the history and scientific significance of the Indian Botanical Garden. (or)		5	5
40.	Elaborate the techniques of vegetative propagation and explain any four methods of layering.		5	5
41.	Design a layout for a kitchen garden and give a detailed account of the plants cultivated in it. (or)		5	5
42.	Explicate the techniques and styles involved in designing a Bonsai.		5	5
