

1B1N25153

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Reg. No:.....

Name:

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

First Semester B.Sc Degree Examination, November 2025

BOT1CJ101 – Aesthetic Botany

(FYUGP 2024 Admission onwards)

Time: 2 hours

Max. Marks : 70

PART – A

All questions can be attended
Each question carries Three marks
Ceiling -24 Marks

		COs	Knowledge Level (KL)	Marks
1	What are seasonal shifts in plant aesthetics?	CO1	U	3
2	Write are mist chambers? What is their specific use in horticulture ?	CO2	U	3
3	What is a terrarium? Describe the essential components required to set up a basic terrarium.	CO2	Ap	3
4	Briefly describe any three potting materials used in potting mixtures.	CO2	U	3
5	Write a short note on seed treatment.	CO2	U	3
6	Enlist the precautions to avoid insect pests of horticultural plants.	CO2	U	3
7	Differentiate between micro and macro photography with examples.	CO4	Ap	3
8	Mention any three shading techniques used in botanical illustration.	CO4	Ap	3
9	Describe the major types of Ikebana floral arrangements.	CO6	C	3
10	How does botanical printing promote eco-friendly art and awareness of plant diversity?	CO6	An	3

PART – B
All questions can be attended.
Each question carries six marks.
Ceiling -36 Marks

		COs	Knowledge Level (KL)	Marks
11	Discuss the aesthetic characteristics of plants and explain how they influence garden design.	CO1	U	6
12	Explain the major types of gardens with respect to their design, style and key features. Give examples.	CO5	U	6
13	Give an account of indoor gardening. What are the common indoor plants used in interior landscaping?	CO5	U	6
14	Give an account on the important garden tools and implements.	CO2	U	6
15	Discuss the basic elements to be considered while capturing botanical photographs ?	CO4	Ap	6
16	Describe the process and applications of resin embedding of flowers.	CO6	C	6
17	Prepare a step-by-step plan to create a botanical print using plant parts.	CO6	C	6
18	What is a green house? Explain the design and working principle of green houses.	CO2	U	6

PART - C
Answer any *one* questions.
Each question carries Ten marks.

		COs	Knowledge Level (KL)	Marks
19	Give a comparative account on various vegetative propagation methods.	CO2	U	10
20	Describe the principle and techniques involved in Bonsai making. What are the different styles of Bonsai? List the tools needed for Bonsai cultivation.	CO1	U	10

1 x 10 = 10 Marks

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

First Semester B.Sc Degree Examination, November 2025

BOT1MN101 – Plant Ecology, Conservation and Plant Interactions

(FYUGP 2024 Admission onwards)

Time: 2 hours

Max. Marks : 70

PART – A

All questions can be attended. Each question carries Three marks.

Ceiling -24 Marks

		COs	Knowledge Level(KL)	Marks
1	How vivipary serves as a halophytic adaptation?	CO1	U	3
2	What are velamen roots? Write their importance.	CO1	U	3
3	Comment on biodiversity hotspots.	CO2	U	3
4	What is endemism? Give example.	CO2	U	3
5	What are RET plants?	CO4	U	3
6	Write notes on Pollen bank.	CO5	U	3
7	What is the significance of core zone in National parks?	CO4	A	3
8	Comment on the role of secondary metabolites in plant defense mechanism.	CO3	A	3
9	What is Mycorrhizae? Write its importance.	CO3	U	3
10	Describe on mutualism as a plant interaction.	CO3	U	3

PART – B

All questions can be attended. Each question carries six marks.

Ceiling -36 Marks

		COs	Knowledge Level(KL)	Marks
11	How <i>Opuntia</i> adapts itself to thrive in xerophytic conditions?	CO1	U	6
12	Explain the different categories of biodiversity.	CO2	U	6
13	Comment on the various threats to biodiversity.	CO2	A	6
14	Analyze the consequences of biodiversity loss.	CO2	A	6
15	Explain various <i>in-situ</i> methods of conservation.	CO5	U	6

16	What are biosphere reserves? Give examples.	CO5	U	6
17	Describe plant- animal interactions and its role in ecosystem services.	CO3	A	6
18	Explain about plant-pollinator interactions with suitable examples.	CO3	A	6

PART - C

**Answer any *one* question.
Each question carries Ten marks.**

		COs	Knowledge Level(KL)	Marks
19	What is ecological succession? Explain the various stages in succession that takes place in aquatic bodies.	CO1	U	10
20	What is the significance of biodiversity conservation? Explain the various methods to conserve biodiversity.	CO5	A	10

1 x 10 = 10 Marks

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FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

First Semester B.Sc Degree Examination, November 2025

BOT1FM105(2) – Plant Propagation

(FYUGP 2024 Admission onwards)

Time: 1 ½ hours

Max. Marks : 50

PART – A

All questions can be attended.
Each question carries Two mark.

Ceiling -16 Marks

		COs	Knowledge Level(KL)	Marks
1	Define a poly-house	1	R	2
2	State any two reasons why plant propagation is necessary.	1	E	2
3	List the four major components of soil	2	R	2
4	Mention one advantage and one disadvantage of using chemical fertilizers.	2	Apply	2
5	How is compost manure prepared?	2	U	2
6	What is a seed bed?	3	R	2
7	Differentiate between surface irrigation and sprinkler irrigation (any one point).	2	Apply	2
8	What are biopesticides? Give one example	2	R	2
9	What is meant by olericulture?	1	U	2
10	State one economic benefit of mushroom farming.	4	Apply	2

PART – B
All questions can be attended.
Each question carries six marks.
Ceiling -24 Marks

		COs	Knowledge Level(KL)	Marks
11	Describe the main types of plant propagation. Compare sexual and asexual propagation with at least two advantages and disadvantages of each.	3	R,U,C	6
12	What are the different methods of plant protection? Explain any two methods with examples.	2	R,U	6
13	What is vegetable gardening? Describe the layout, tools used, and the benefits of practicing vegetable gardening at home.	4	R,U, Apply	6
14	What are biofertilizers? Explain their types, mode of action, and significance in sustainable agriculture.	2	R, E,C	6
15	Explain the steps involved in transplanting seedlings. Mention the importance of hardening	2	R,,A,	6

PART - C
Answer any *one* questions.
Each question carries Ten marks.

		COs	Knowledge Level(KL)	Marks
16	What is seed propagation? Explain seed dormancy, seed treatment, and the conditions required for successful seed propagation. Add a note on the preparation and care of seed beds	3	R,U,C	10
17	Define bonsai. Describe the process of preparing and maintaining, including plant selection, container choice, pruning methods, and care requirements.	4	1. R,U,A	10

1 x 10 = 10 Marks