

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

First Semester B.Sc Botany Degree Examination, November 2024

BOT1CJ101 – Aesthetic Botany

(FYUGP 2024 Admission)

Time: 2 hours

Max. Marks : 70

Course Outcome Mapping Scheme

1	2	3	4	5	6	7	8	9	10
CO2	CO1	CO1	CO2	CO1	CO2	CO1	CO4	CO2	CO2
11	12	13	14	15	16	17	18	19	20
CO2	CO3	CO3	CO2	CO1	CO4	CO2	CO3	CO2	CO4

PART – A

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

1. Comment on drip irrigation and its advantages.
2. How *Iwagumi* stands apart from other aquascaping styles?
3. Differentiate between the common greenhouse materials.
4. What is eco-printing? What are its applications?
5. What is Golden hour? Comment on its importance in photography
6. Give the industrial importance of ornamental plants.
7. Why botanists prefer stippling method for illustration?
8. Which are major garden tools used in *Bonsai* preparation?
9. Distinguish between the *Hokidachi*, *Moyogi* and *Chokkan* types of *Bonsai*
10. What are the major goals of landscaping?

PART – B

(All questions can be attended, each question carries Six marks. Ceiling -36 Marks)

11. Elucidate the principles involved in garden designing
12. Describe any three styles of *Ikebana*, citing their key features
13. Explain any six aesthetic characteristics of plants, citing examples
14. What the major processes and techniques involved in Botanical printing?
15. Write a note on the various compositions involved in photography
16. Give the advantages and disadvantages of chemical fertilizers. Cite examples.
17. Differentiate between bio-fertilizers and bio-pesticides, giving examples
18. Differentiate between the procedures involved in the simple, trench and air layering methods.

PART - C

(Answer *anyone* question, each question carries Ten marks)

19. Explain the various components and types of soil, describing their features.
20. Differentiate between the various types of propagating structures, highlighting their advantages.

1 x 10 = 10 Marks

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE**First Semester B.sc Botany Honours Degree Examination, November 2024****Multi Disciplinary Course****BOT1FM105 – Plant Propagation**

(FYUGP 2024 Admission)

Time: 1.5 hours

Max. Marks : 50

Course Outcome Mapping Scheme

1	2	3	4	5	6	7	8	9	10
CO2	CO2	CO2	CO1	CO2	CO1	CO1	CO2	CO4	CO2
11	12	13	14	15	16	17			
CO2	CO2	CO2	CO2	CO2	CO2	CO1			

PART – A**All questions can be attended. Each question carries Two mark. Ceiling -16 Marks**

1. Explain hardening and transplantation
2. Explain the significance of micropropagation
3. List out the importance of plant propagation
4. Write about the various components which are present in the soil
5. Describe about biofertilizer using suitable example
6. Compare between hot beds and cold frames
7. What is meant by olericulture?
8. List out any four nursery tools that are used in plant propagation
9. Briefly explain the economic importance of Orchid and Anthurium cultivation
10. Explain seed dormancy and the necessity of seed treatment

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

11. Explain budding and differentiate between T-budding and Patch budding
12. Differentiate between asexual and sexual methods of plant propagation
13. Comment on the 'horticulturists ideal soil' and compare it with other types of soils.
14. Differentiate between drip irrigation and sprinkler irrigation
15. Briefly explain the steps of cultivation of mushrooms.

PART - C

Answer any *one* questions.

Each question carries Ten marks.

16. Explain the various types of propagation method for plants which cannot produce seeds.
17. Examine the significance of terrarium and bonsai, and explain their preparation methods.

1 x 10 = 10 Marks

FAROOK COLLEGE (AUTONOMOUS), KOZHIKODE

First Semester B.Sc Degree Examination, November 2024

BOT1MN103 – Economic Botany

(FYUGP 2024 Admission)

Time: 2 hours

Max. Marks : 70

Course Outcome Mapping Scheme

1	2	3	4	5	6	7	8	9	10
CO3	CO1	CO3	CO1	CO3	CO1	CO1	CO1	CO1	CO1
11	12	13	14	15	16	17	18	19	20
CO3	CO1	CO1	CO1	CO1	CO1	CO3	CO1	CO1	CO3

PART – A

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

1. Compare primary and secondary introduction.
2. Identify the chemical constituents of *Rauwolfia* and explain their importance.
3. Write the underground parts of wild edible plants with their form of usage.
4. Explain parboiling.
5. Analyse the reasons for under utilization of some plants.
6. Distinguish the plant surface fibres with example.
7. List out the nutritional values of legumes.
8. Explain the general characteristics of essential oils.
9. Summarize the health benefits of coffee.
10. What is ratooning?

PART – B

All questions can be attended. Each question carries Six marks. Ceiling -36 Marks

11. Examine the under utilized leafy vegetables and their nutritional importance.
12. Distinguish the morphology of useful parts and explain the economic importance of spices.
13. Explain the chemical constituents of *Adhatoda* and medicinal importance in detail.
14. Explain the process of rubber tapping and the processing of latex.
15. Analyse the health benefits of nuts.
16. Write down the methods of production, and economic importance of wheat.
17. Choose the conservation methods of under utilized plants.
18. Classify plant genetic resources based on the extent of domestication and breeding.

PART – C

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

19. Examine the morphology and explain the products and by-products of sugarcane.
20. Explain Vavilov's concept of centre of origin and centre of diversity with suitable examples.

(1 x 10 = 10 Marks)