

BACHELOR'S DEGREE EXAMINATION, OCTOBER 2025
2025 ADMISSIONS REGULAR
SEMESTER I - MAJOR (BOTANY)
BO1DSCA01B24 - Frontiers in Plant Science

Time : 1.5 Hours

Maximum Marks : 50

Part A

Answer all questions. Each question carries 1 mark.

(1x10=10)

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| 1. Describe Golden rice. | [CO1,Understand] |
| 2. Define Ecology. | [CO1,Remember] |
| 3. Name the person who introduced high-yielding hybrid varieties of sugarcane. | [CO1,Remember] |
| 4. Name the group of plants that shows "circinate vernation" | [CO2,Remember] |
| 5. Identify a plant which is commonly known as 'Monkey cup'. | [CO2,Remember] |
| 6. Name the most expensive coffee in the world. | [CO2,Remember] |
| 7. Explain GIS. | [CO3,Understand] |
| 8. Define bioindicators. | [CO4,Understand] |
| 9. Define Phytoremediation | [CO4,Understand] |
| 10. Name the commercial product obtained from <i>Trichopus zeylanicus</i> . | [CO4,Remember] |

Part B

Answer any 2 questions from the bunch of CO1. Each question carries 5 mark.

(5x2=10)

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| 11. Explain the contributions of E K Janaki Ammal. | [CO1,Understand] |
| 12. Discuss the contributions of Carolus Linnaeus. | [CO1,Understand] |
| 13. Discuss the research areas of plant physiology. | [CO1,Understand] |

Part B

Answer any 2 questions from the bunch of CO2. Each question carries 5 mark.

(5x2=10)

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| 14. Distinguish algae and bryophytes. | [CO2,Understand] |
| 15. Discuss on the benefits on <i>Cordyceps</i> . | [CO2,Understand] |
| 16. Explain the production method of <i>Kopiluwak</i> . | [CO2,Understand] |

Part B

Answer any 2 questions from the bunch of CO4. Each question carries 5 mark.

(5x2=10)

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| 17. Write the different ways to maintain ecological balance. | [CO4,Apply] |
| 18. Differentiate between crustose, fruticose and foliose lichens with example. | [CO4,Understand] |
| 19. Prepare a note on timber plants. | [CO4,Apply] |

Part C

Answer any 1 question from the bunch of CO3. Each question carries 10 mark.

(10x1=10)

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| 20. Discuss the applications of IoT in Botany. | [CO3,Understand] |
| 21. Explain the applications of PCR. | [CO3,Understand] |