

24U219

(Pages: 2)

Name :

Reg. No :

SECOND SEMESTER UG DEGREE EXAMINATION, APRIL 2025

(FYUGP)

CC24UBOT2MN101 - PLANT MORPHOLOGY, PHYSIOLOGY AND PLANT RESOURCES

(Botany - Minor Course)

(2024 Admission - Regular)

Time: 2.0 Hours

Maximum: 70 Marks

Credit: 4

Part A (Short answer questions)

Answer *all* questions. Each question carries 3 marks.

1. Explain the difference between pinnately and palmately compound leaves. [Level:2] [CO1]
2. Classify the arrangement of floral parts based on the position of the ovary. [Level:2] [CO1]
3. Describe water potential. [Level:2] [CO2]
4. Explain apoplast pathway of passive absorption. [Level:2] [CO2]
5. Explain action spectrum and absorption spectrum in photosynthesis. [Level:2] [CO2]
6. Explain "ascent of sap" and its importance in plants. [Level:2] [CO2]
7. Explain fruit ripening and its significance in plants. [Level:2] [CO3]
8. Explain seed dormancy and its significance in plants. [Level:2] [CO3]
9. Describe the binomial and family of two pulses you have studied. [Level:2] [CO4]
10. Describe the binomial, family and morphology of useful part of Sandal. [Level:2] [CO4]

(Ceiling: 24 Marks)

Part B (Paragraph questions/Problem)

Answer *all* questions. Each question carries 6 marks.

11. Describe the different types of cymose inflorescence with examples. [Level:2] [CO1]
12. Explain different types of transpiration and significance. [Level:2] [CO2]
13. Explain photorespiration. [Level:2] [CO2]
14. Describe the mechanism of photoperiodism. [Level:2] [CO3]
15. Discuss the structural and physiological changes in the abscission zone. [Level:2] [CO3]
16. Explain the role of ethylene in plant growth. [Level:2] [CO3]

17. Explain the binomial, family, morphology of useful part and uses of Pepper and Clove. [Level:2] [CO4]
18. Explain the binomial, family, morphology of useful part and uses of two bevarages you have studied. [Level:2] [CO4]

(Ceiling: 36 Marks)

Part C (Essay questions)

Answer any *one* question. The question carries 10 marks.

19. Explain the different types of placentation with the help of suitable diagrams and examples. [Level:2] [CO1]
20. Explain the significance of transpiration in plants and the role of antitranspirants in agriculture, with suitable examples and applications. [Level:2] [CO2]

(1 × 10 = 10 Marks)
