

QP CODE: D3BBT2403

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Reg. No : .....

Name : .....

**THIRD SEMESTER FYUGP EXAMINATION, NOVEMBER 2025****Discipline Specific Core (DSC) Course - Minor****BOT3MN201 : Plant Diversity & Angiosperm Taxonomy****(Credits: 4)****Time: 2 Hours****Maximum Marks: 70****Section A****Answer the following questions. Each carries 3 marks (Ceiling: 24 marks)**

1.	What is mycorrhiza? Name its two main types	BL1	CO1, CO2, CO3
2.	What is prothallus?	BL1	CO1, CO3
3.	What are effective publications in biological nomenclature, and why are they important?	BL1	CO4
4.	Define saprophytic nutrition with one example from fungi.	BL2	CO1, CO2, CO4
5.	Comment on individual contributions of Bentham and Hooker.	BL1	CO4
6.	Explain why bryophytes are called " <i>Amphibians of the plant kingdom</i> "	BL2	CO1, CO2
7.	Write two differences between isogamy and anisogamy.	BL2	CO2
8.	Write a note on gills in <i>Agaricus</i> ?	BL2	CO1, CO4, CO5
9.	How are fleshy plant specimens preserved for herbarium purposes?	BL2	CO4
10.	Define scalariform conjugation in <i>Spirogyra</i> .	BL2	CO2

**Section B****Answer the following questions. Each carries 6 marks (Ceiling: 36 Marks)**

11.	Explain the reproductive strategies of lichens. How do these methods help them survive and spread in diverse environments?	BL2	CO1, CO2
12.	Describe the salient features of pteridophytes.	BL2	CO1, CO2

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13.	Describe the morphology and external features of <i>Riccia</i> .	BL2	CO1, CO2
14.	Discuss any three important botanical gardens in India and explain their significance in conservation.	BL2	CO4, CO5
15.	Give an account of the different methods of reproduction in <i>Nostoc</i> .	BL2	CO2, CO3, CO4
16.	Compare nature of inflorescence in following families such as Fabaceae, Caesalpiniaceae and Mimosaceae.	BL2	CO5
17.	Explain the anatomical features of <i>Cycas</i> leaflet in transverse section.	BL2	CO1, CO2, CO4
18.	Construct a detailed account of the general characters of angiosperms, explaining how these features contribute to their success on land.	BL2	CO2

### Section C

**Answer any one question. Each carries 10 marks (1 x 10 = 10 Marks)**

19.	Write a detailed account of the general structure, reproduction, and life cycle of cyanobacteria.	BL2	CO1, CO2
20.	Write a detailed account of the general characteristics and anatomical features of gymnosperms.	BL2	CO1, CO3

**CO : Course Outcome**

**BL : Bloom's Taxonomy Levels** (1 – Remember, 2 – Understand, 3 – Apply, 4 – Analyse, 5 – Evaluate, 6 – Create)