

QP CODE: D2BBT2502	(Pages: 2)	Reg. No :
		Name :
SECOND SEMESTER FYUGP EXAMINATION, APRIL 2026		
(Regular/Improvement/Supplementary)		
Discipline Specific Core (DSC) Courses - Minor		
BOT2MN101 : Plant Morphology, Physiology & Plant resources		
(Credits: 4)		
Time: 2 Hours	Maximum Marks: 70	
Section A		
Answer the following questions. Each carries 3 marks (Ceiling: 24 marks)		
1.	Define phyllotaxy and name its types.	BL1 CO1, CO3
2.	Briefly explain the structure of spadix inflorescences with suitable diagrams and examples.	BL1 CO1, CO3
3.	What is imbibition, and how does it occur in biological systems?	BL1 CO2
4.	What is the cohesion-tension theory?	BL2 CO1, CO2, CO3
5.	What are antitranspirants?	BL2 CO2, CO3
6.	How does stratification help in breaking dormancy?	BL2 CO2, CO3
7.	What is devernalization?	BL2 CO2, CO3
8.	Summarize the medicinal and economic uses of Turmeric.	BL2 CO3, CO4
9.	Identify the binomial, family of coconut and describe the morphology and uses of coconut as an oil-yielding plant.	BL3 CO3, CO4
10.	Classify plants based on their economic importance with examples.	BL2 CO3, CO4
Section B		
Answer the following questions. Each carries 6 marks (Ceiling: 36 Marks)		
11.	Examine the various types of placentation found in angiosperms with examples.	BL4 CO1, CO3
12.	Explain the concept of the "red drop" and its implications for photosynthesis.	BL2 CO2, CO3
(PTO)		

13.	How does the structure of guard cells facilitate stomatal opening and closing?	BL2	CO2, CO3
14.	Describe the process of passive absorption of water with a labeled diagram.	BL2	CO2, CO3
15.	Compare climacteric and non-climacteric fruits with examples.	BL2	CO2, CO3
16.	Explain the process of abscission, including the role of enzymes in the abscission zone.	BL2	CO2, CO3
17.	Illustrate the importance of spices with reference to pepper, cardamom, and clove.	BL3	CO3, CO4
18.	Examine the significance of latex-producing plants with a detailed study of rubber.	BL3	CO3, CO4

Section C

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

19.	Discuss C4 photosynthesis and how it helps plants adapt to high temperatures and low CO ₂ conditions.	BL3	CO2, CO3
20.	Explain in detail the functions and commercial applications of auxins, gibberellins, and cytokinins.	BL2	CO2, CO3

CO : Course Outcome

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