QP CODE: D2BBT2402	(Pages: 2)	Reg. No : .....
		Name : .....

SECOND SEMESTER FYUGP EXAMINATION, APRIL 2025

MINOR COURSE

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.	What is the role of ethylene in fruit ripening?	BL2	CO2, CO3
2.	Classify plants based on their economic importance with examples.	BL2	CO3, CO4
3.	Name two environmental factors that influence transpiration.	BL2	CO2, CO3
4.	Describe binomial, family, and uses of cardamom.	BL2	CO3, CO4
5.	Define a simple leaf with an example.	BL1	CO1, CO3
6.	Comment on the different types of aestivation in angiosperm flowers with suitable examples	BL2	CO1, CO3
7.	Define the action spectrum of photosynthesis.	BL2	CO2, CO3
8.	What is the role of abscisic acid (ABA) in leaf abscission?	BL2	CO2, CO3
9.	Identify the binomial, family, and useful part of two fibre-yielding plants.	BL3	CO3, CO4
10.	How do stomata regulate the rate of photosynthesis?	BL3	CO2, CO3

Section B

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

11.	Explain and differentiate the structure of monochasial and dichasial cymes with suitable diagrams and examples.	BL1	CO1, CO3
12.	Describe the role of abscisic acid and ethylene in plant responses to environmental stress.	BL2	CO2, CO3

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13.	How does the structure of guard cells facilitate stomatal opening and closing?	BL2	CO2, CO3
14.	Analyze the role of pulses in agriculture and human nutrition with reference to black gram and green gram.	BL3	CO3, CO4
15.	Explain the process of imbibition and its significance in plant life.	BL2	CO2, CO3
16.	Analyze the industrial and medicinal importance of *Santalum album* and *Curcuma longa.*	BL3	CO3, CO4
17.	How can understanding passive absorption help in improving water management in agriculture?	BL3	CO2, CO3
18.	Discuss the role of light in photoblastic seed germination.	BL2	CO2, CO3
	Section C		
	Answer any one question. Each carries 10 marks (1 x 10 = 10 Marks)		
19.	Discuss the process, mechanisms, and practical applications of vernalization in crop production.	BL2	CO2, CO3
20.	Explain in detail the mechanism of ascent of sap in plants.	BL3	CO2, CO3
	CO : Course Outcome		
	BL : Bloom's Taxonomy Levels (1 – Remember, 2 – Understand, 3 – Apply, 4 – Analyse, 5 – Evaluate, 6 – Create)		