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B.M.S COLLEGE FOR WOMEN
BENGALURU – 560004

III SEMESTER END EXAMINATION – JAN/FEB-2024

B.Sc. – BOTANY
PLANT ANATOMY AND DEVELOPMENTAL BIOLOGY
(NEP Scheme 2021-22 onwards F+R)

Course Code: BOT3DSC03

Duration: 2 ½ Hours

QP Code: 3018

Max marks: 60

Instructions: 1. Answer all the sections.

2. Draw diagrams wherever necessary.

SECTION-A

I. Answer any FIVE of the following. Each question carries TWO marks. (5x2=10)

1. What is triple fusion?
2. List any four types of stomata.
3. What is amphicribal vascular bundle?
4. Mention the types of meristems on the basis of their position.
5. Define microsporogenesis.
6. What is bilateral symmetry in plants? Give an example.
7. What is plant morphogenesis?

SECTION-B

II. Answer any FOUR of the following. Each question carries FIVE marks. (4x5=20)

8. Sclerenchyma.
9. Microspore tetrad and its types.
10. Primary structure of dicot root.

11. Polarity in multicellular system.
12. Primary structure of monocot leaf.
13. Laticiferous tissue.

SECTION-C

III. Answer any THREE of the following. Each question carries TEN marks. (3x10=30)

14. Give an account of complex permanent tissues.
15. Explain the anomalous secondary growth in *Dracaena* stem.
16. Explain shoot apical meristem (SAM), and add a note on the theories of organization of SAM.
17. Describe the structure of anatropous ovule and add a note on types of ovules.
18. Explain a. free nuclear endosperm.
b. ABC model specification of floral organs.



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Question Paper Template with Course Outcome and Bloom's Taxonomy

Time:	2.5 Hours	Marks:60		
		Marks	CO	Bloom's level
1.	a) What is triple fusion?	2	1	1
	b) List any four types of stomata.	2	1	2
	c) What is amphicribal vascular bundle?	2	1	1
	d) Mention the types of meristems on the basis of their position.	2	1	1
	e) Define microsporogenesis	2	4	2
	f) What is bilateral symmetry in plants? Give an example.	2	4	4
	g) What is plant morphogenesis?	2	1	2
2.	a) Sclerenchyma.	5	1	1
	b) Microspore tetrad and its types.	5	4	1
	c) Primary structure of dicot root.	5	1	2
	d) Polarity in multicellular system.	5	2	1
	e) Primary structure of monocot leaf	5	1	2
	f) Laticiferous tissue.	5	2	1
3.	a) Give an account of complex permanent tissues	10	1	2
	b) Explain the anomalous secondary growth in Dracaena stem.	10	2	1
	c) Explain shoot apical meristem (SAM), and add a note on the theories of organization of SAM.	10	1	1
	d) Describe the structure of anatropous ovule and add a note on types of ovules	10	1	4
	e) Explain a. Free nuclear endosperm. b. ABC model specification of floral organs.	5 5	1 1	2 2

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