		PART C — (5 × 8 = 40 marks) er ALL questions, choosing either (a) or (b). ch answer should not exceed 600 words.					
6.	(a)	Describe Phloem tissues with suitable diagrams.					
		Or					
	(b)	Explain the theories of Meristems.					
7.	(a)	Compare the internal morphology of monocot leaves with dicot leaves.					
		Or					
	(b)	Write an essay on Dicot stem with sketch.					
8.	(a)	Describe the various stages of secondary thickening of dicot root.  Or					

Explain the stages of anomalous secondary

(a) Elaborate the types of nodes with diagrams.

(b) What are the epidermal tissues? Explain its

Enlist the scope and importance of

(a) Describe various steps in double staining.

Or

growth of Dracaena.

types.

Microscopy.

19.

Time: Three hours Maximum: 75 marks PART A —  $(10 \times 1 = 10 \text{ marks})$ Answer ALL questions. Choose the correct answer: Which one is a water conducting tissue? Xylem (b) Pholem Collenchyma Sclerenchyma Meristematic tissue is a tissue. Conducting Permanent Temporary Secretory Casparian bands are seen in

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(a) Epidermis

(c) Pericycle

Reg. No. :....

B.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2022.

Second Semester

Botany — Core

PLANT ANATOMY AND MICRO TECHNIQUES

(For those who joined in July 2020 onwards)

Sub. Code: AMBO 21/

**CMBO 21** 

Endodermis

Phloem

4.	Open vascular bundles are seen in					
	(a)	Dicot stem	(b)	Dicot root		
	(c)	Monocot stem	(d)	Monocot root		
	How many numbers of protoxylem or phloe bundles are present in dictor root?					
	(a)	2 to 9	(b)	1 to 5		
	(c)	2 to 6	(d)	2 to 8		
	Abnormal/anomalous secondary growth occurs in					
	(a)		(b)			
	(c)	Wheat	(d)	Sunflower		
	Trilacunar node is present in					
	(a)	Aralia	(b)	Azadirachta		
	(c)	Justicia	(d)	Pongamia		
	The space found above the leaf trace is					
	(a)		(b)			
	(c)	Pit	(d)	Pit membrane		
	Photograph which is taken from microscope known as					
	(a)	Macrograph	(b)	Monograph		
	(c)	Micrograph	(d)	Pictograph		
	Which of the following is an azodye?					
		Safranin	(b)	Haematoxylin		
	(c)	Aniline blue	(d)	Orange G		
		Page	2 C	ode No. : 10736 I		

## PART B — $(5 \times 5 = 25 \text{ marks})$

Answer ALL questions, choosing either (a) or (b). Each answer should not exceed 250 words.

11. (a) Define Meristems. Give short notes on its types.

Or

- (b) Explain in brief about simple tissues.
- 12. (a) Illustrate the structure of dicot Root.

Or

- (b) Illustrate the internal morphology of dorsiventral leaf.
- 13. (a) Illustrate the normal secondary growth of dictor stem.

Or

- (b) How does anomalous secondary growth takes place in Boerhaavia?
- 14. (a) Explain in brief about Hairs.

Or

- (b) Write short notes on stomatal types.
- 15. (a) Explain the principle and working mechanism of simple microscope.

Or

(b) How do you prepare sample for permanent slide?

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