Reg. No.:....

Code No.: 20858 E Sub. Code: EEBO 21

B.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2024

Second Semester

Botany

Elective — ALLIED BOTANY - II

(For those who joined in July 2023 onwards)

Time: Three hours Maximum: 75 marks

PART A — $(10 \times 1 = 10 \text{ marks})$

Answer ALL questions.

Choose the correct answer:

1. Roots are

- (a) Descending, Negatively geotropic, Positively phototropic
- (b) Descending, positively geotropic, negatively phototropic
- (c) Ascending, positively geotropic, negatively phototropic
- (d) Ascending, negatively geotropic, positively phototropic

	Which one of the following plant is a climber?	10. Root pressi	ire is developed in
3.	(a) Catharanthus (b) Vol. (and (c) Phyllanthus (d) Colens Which one of the following is the correct	(a) Xylen (c) Corte PĄl	(b) Phloem
	(a) Class. Series. Order and Tamily (b) Division. Order. Class. Series. and Family (c) Order. Division. Class. Series, and Family	Each ansv 11. (a) Expla	ver should not exceed 250 words. in the different types of Phyllotaxy. Or
4.	Which part is edible in Tamarind? (a) Epicarp (b) Mesocarp (c) Endocarp (d) Both (a) and (b)	stems	in briefly about the modification of . ut the importance of Euphorbiaceae. Or
5.	Which one is a water conducting tissue? ' (a) Xylem (b) Phloem	Casal	rate the floral characters of the family piniaceae.
6.	(c) Collenchyma (d) Sclerenchyma Open vascular bundles are seen in (a) Dicot stem (b) Dicot root	leaves	are the internal morphology of monocot with dicot leaves. Or
	(c) Monocot stem (d) Monocot root		in the structure and function of enchyma.
7.	Anther is also called as (a) Sporangium (b) Megasporangim (c) Microsporangium (d) Stamen	14. (a) Briefly Micros	y explain the structure of sporangium. Or
8.	Double fertilization is exhibited by in	(b) Give a	short note on Double Fertilization.
	(a) Algae (b) Fungi (c) Gymnosperms (d) Angiosperms	15. (a) Write sketch	short notes on Chloroplast with
9.	Photosynthesis is process. (a) Catabolic (b) Anabolic (c) Amphibolic (d) All	(b) Write water.	Or an account on active Absorption of
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PART C — $(5 \times 8 = 40 \text{ marks})$

Answer ALL questions choosing either (a) or (b). Each answer should not exceed 600 words.

16. (a) What are Inflorescences? Explain about special types of inflorescences.

Or

- (b) What is aestivation? Explain its types with suitable sketches.
- 17. (a) Explain the floral characters of the family Asclepiadaceae.

Or

- (b) Explain the general characteristics of the family Rutaceae.
- 18. (a) Illustrate the structure of dicot Root.

Or

- (b) Describe Phloem tissues with suitable diagrams.
- 19. (a) Illustrate the structure of Megasporangium.

Or

- (b) Write an essay on the structure of Dicot seed.
- 20. (a) Differentiate between cyclic and non-cyclic Photophosphorylation.

Or

(b) Explain the physiological role of Cytokinins.