

K20U 0295

Reg. No.:

Name :

Il Semester B.Sc. Degree (CBCSS - Supplementary/Improvement) Examination, April 2020

2B02 BOT/PLS : A	RSE IN BOTANY/PLANT SCIENCE Ingiosperm Anatomy and Microtechnique (2014-2018 Admissions)
Time : 3 Hours	9 gninista elduob to eonsolling Max. Marks: 40
	6. Give an anatomical explanation of why dicot leaves a
Answer all the questions.	
Main component of prima	ary cell wall is griwoliot entro auc) yns rewen
(Cellulose, Hemicellulose	s, Pectin, Suberin)
	7. Briefly explain the structure and function primary cell
(Safranin, Orcein, Hemati	oxylin, Trypan blue) 10191092 sriktuods nielove yheha .a.
3 Perforation plate is seen i	9. Give an illustrated note on phicem elements ni
	ve tubes, Fibers) marghem wolf V malghem s at lartW .01
4 is an example	of secondary meristem. ymotana latod niniqua yllenii . M
(Vascular cambium, Fasio	cular cambium, Apical meristem, Cork cambium) (4×1=4)
	G - TRA9
	PART – B Answer any one of the following.
Answer any eight.	
	at are the characteristics of meristematic cells?
6. Brief note on different typ	es of xylem vessels based on thickening.
7. What are the different typ	
8. Briefly describe about diff	ferent types of pits.

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- 9. Distinguish between sieve tubes and sieve elements with suitable diagram.
- 10. Give the formula of two fixatives.
- 11. Brief about maceration.
- 12. What is tylosis? What is its significance in wood?
- 13. Differentiate between leaf trace and leaf gap.
- 14. What is the significance of double staining?
- 15. What are bulliform cells? What is its significance?
- 16. Give an anatomical explanation of why dicot leaves are dorsiventral. $(8 \times 2 = 16)$

PART - C

Answer any four of the following.

- 17. Briefly explain the structure and function primary cell wall with suitable diagrams.
- 18. Briefly explain about the secretory substances in plants with suitable diagram.
- 19. Give an illustrated note on phloem elements.
- 20. What is a meristem? How meristems are classified? all ablations, serious 1
- 21. Briefly explain floral anatomy.
- 22. List out the anatomical adaptations of xerophytes. (4×3=12)

PART - D

Answer any one of the following.

- 23. What is a tissue? How tissues are classified? Write a brief note on simple tissues with suitable diagrams. Is not passed out one land. It metanom as a land.
- 24. Explain the anomalous secondary thickening in Boerhaavia stem with suitable diagram.
- 25. What is microtomy? Write an essay of different types of microtomes. $(1 \times 8 = 8)$