Reg. No. :



II Semester B.Sc. Degree (CCSS - Reg./Supple./Improv.)

CORE COU	Examination, May 2016 RSE IN BOTANY/PLANT SCIE Angiosperm Anatomy and Micr	
	(2014 Admn. Onwards)	add busine admid- (1)
Time: 3 Hours	дительно уррезунательных	Total Marks: 40
	SECTION - A	THE CHIVE BRY TOUR B
Answer all:	es a complex tissue,	15. Discuss xylem
A dehydrating agent	dvantages of microtome sections over	16, What are the ad
a) Carnoy's fluid	b) Safranin	
c) Acetone	d) DPX	
Vascular tissues are redu	uced in	Answer any Jour o
a) Xerophytes	b) Halophytes	17. What is meant b
c) Hydrophytes	d) Mesophytes	18. Briefly describs
3. Conductive wood		
a) Heartwood	b) Hardwood	
c) Sapwood	d) Softwood is a world a noise	
4. Reserve food in Aleurone	e grains.	
a) Starch	b) Fats	
c) Protein	d) Oils	(4×1=4)
	SECTION - B	
Answer any eight question	s:	
5. Give the characteristics		
The state of the s		

- 6. Differentiate between ring porous and diffuse porous wood.
- 7. Write the composition of FAA. To ent of betalet ashould auditor ent asubald P.T.O.

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- 8. What is tyloses?
- 9. What is a whole mount? How is it prepared?
- 10. Give an account on different types of starch grains.
- 11. Explain extra stelar secondary growth.
- 12. What is vital staining? Give an example.
- 13. Write about the different types of collenchyma.
- 14. Give any four anatomical adaptations seen in hydrophytes.
- 15. Discuss xylem as a complex tissue.
- 16. What are the advantages of microtome sections over free hand sections?

 $(8 \times 2 = 16)$

SECTION-C

Answer any four questions:

- 17. What is meant by dehydration? State its advantages and name the reagents used.
- Briefly describe how normal secondary growth occurs in the dicot stem.
- 19. Explain the structure of the dorsi-ventral leaf with the aid of a diagram.
- 20. What is maceration? How is it done?
- 21. Write notes on non living inclusions you have studied.
- 22. Write an account on secretory tissues.

 $(4 \times 3 = 12)$

SECTION - D

Answer any one question:

- Describe anomalous secondary growth in Dracaena stem with labelled sketches.
- 24. What is meant by double staining? Explain the process of preparing a permanent slide.
- 25. Discuss the various theories related to the organisation of shoot apex.

 $(1 \times 8 = 8)$