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Reg. No.....

FIRST SEMESTER B.Sc. DEGREE EXAMINATION, JANUARY 2014

(UG—CCSS)

Complementary Course

Botany

BO IC 01—ANGIOSPERM ANATOMY AND MICROTECHNIQUE

			A beginner entitles			
: Three Hours				Maximum: 30 Weightage		
Objective Type	Objective Type Questions: Answer all the twelve questions:					
1 Which one of the following in not a component of epidermis?						
(a) Stor	mata.	(b)	Trichomes.			
(c) Cell	ulose and pectin.	(d)	Lignin.			
2 In which of the following passage cells are found?						
(a) Med	lula.	(b)	Endodermis.			
(с) Нур	odermis.	(d)	Pericycle.	med a current and the		
3 Which of the following is primary lateral meristem?						
(a) Vas	cular cambium.	(b)	Cork cambium.	masof disignal in		
(c) Inte	r fascicular cambium.	(d)	Fascicular cambium.	•		
4 With which of the following tissues latex producing cells are mostly associated?						
(a) Med	ula.	(b)	Phloem.			
(c) Xyle	em.	(d)	Cortex.			
5 Which of th	5 Which of the following angiosperms do not possess vessels in their xylem?					
(a) Hibi	scus and Vinca.	(b)	Lilium and Asparagu	s.		
(c) Drin	nys and Trochodendron.	(d)	Yucca and Dracaena.			
6 The term p	hloem was conined by ——		-			
7 ——— are ballon like outgrowths from xylem parenchyma protrude into the vessels						
through the pits due to injury /infection.						

- 8 ——— is a colourless, sweet tasting liquid and is used as reagent for dehydrating delicate filaments of algae and fungi.
- 9 The term means the sudden stoppage of the life processes with respect to the entire organism and more specially individuals cells.
- 10 Where do you find extra xylary fibres?
- 11 What is phellogen?
- 12 What for aceto carmine is used?

 $(12 \times \frac{1}{4} = 3 \text{ weightage})$

- II. Short answer questions. Answer all nine questions:
 - 13 Explain the concept of Histogen theory.
 - 14 Enumerate the components of complex tissues.
 - 15 List out the types of vascular bundles.
 - 16 Explain the principle and use of electron microscope.
 - 17 List out the agents used in dehydration and clearing.
 - 18 What is progressive staining and explain its significance.
 - 19 Distinguish hydathodes from pneumatophores.
 - 20 Explain the classification of meristematic tissues.
 - 21 Explain the structural function of sclerenchyma.

 $(9 \times 1 = 9 \text{ weightage})$

- III. Short essay or paragraph questions: Answer any five questions from seven:
 - 22 Describe the structure and function of parenclyma.
 - 23 What are tissues and explain the types of tissues.
 - 24 Elucidate the structure and function of laticiferom tissue.
 - 25 Describe the organization of root apex and its differentiation.
 - 26 Explain the principle and uses of compound microscope.
 - 27 Describe paraffin method and its significance.
 - 28 Explain the significance of retrogressive staining and counter staining.

 $(5 \times 2 = 10 \text{ weightage})$

- IV. Essay type questions: Answer any two questions from three:
 - 29 Describe the secondary growth in Dicot root with labelled diagram.
 - 30 Explain the structure of Dicotyledonous and monocotyledonous leaves in transverse section with labelled diagram.
 - 31 Write an account of Microtomy.

 $(2 \times 4 = 8 \text{ weightage})$