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FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2014

(CUCBCSS-UG)

Core Course—Botany

BOT 1B 01—ANGIOSPERM ANATOMY

Time: Three Hours	Maximum : 80 Marks

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Part A	
I. Answer all questions. One word/fill in the blanks (1 mark each):	
1 Raphides present in plant parts is a type of crystal.	
2 is a living mechanical tissue.	
3 In amphicribral vascular bundles, xylem seen towards	
4 If phloem, seen on either side of the xylem, it is known as	
5 Phellem. phellogen and phelloderm together known as	
Answer in a single word:	
6 Who proposed Tunica Corpus theory?	
7 Give an example of unilacunar leaf trace.	
8 Which is the meristematic portion in vascular bundle.	
9 What is the baloon like structures seen in the inner cavity of xylem ves	sels?
10 Connections seen in between the adjacent plant cells is called.	
	(10 x 1 = 10 marks
Part B	
II. Answer all questions. Short answer questions:	
11 What is appostion?	
12 What are cystolyths?	
13 Define Histogen theory.	
14 What are hydathodes?	
15 Define sapwood.	
16 What is multilacunar leaf trace?	
17 What are the functions of cambium?	

18 What are the main differences between bordered and simple pits?

- 19 Define growth rings.
- 20 Define nectaries.

 $(10 \times 2 = 20)$

Part C

- III. Answer any six questions. Short essay 5 marks each:
 - 21 Give a brief account of cell wall materials.
 - 22 Write notes, on the different types of simple tissues.
 - 23 Explain various types of secretory tissues present in plants.
 - 24 Describe the structure of aerial roots present in *Tinospora*.
 - 25 Distinguish between the structure of monocot and dicot leaves.
 - 26 Explain the structure and functions of lenticels.
 - 27 Describe with diagram the structure of monocot stomata.
 - 28 Explain organization of root apex in monocots.

 $(6 \times 5 = 301)$

Part D

- IV. Answer any two questions. Essay 10 marks each
 - 29 Describe with diagrams the anomalous secondary thickening in Bignonia stern.
 - 30 Write an essay regarding the various types of reserve food material present in plant parts.
 - 31 Describe with diagrams the **periderm** formation.

 $(2 \times 10 = 20 \text{ marks})$