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Name.....

Reg. No..... **21**

FIRST SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2014

(CUCBCSS-UG)

Core Course—Botany

BOT 1B 01—ANGIOSPERM ANATOMY

Time : Three Hours

Maximum : 80 Marks

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 amphicribal 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 are the balloon like structures seen in the inner cavity of xylem vessels ?
- 10 Connections seen in between the adjacent plant cells is called.

(10 × 1 = 10 marks)

Part B

II. Answer *all* questions. Short answer questions :

- 11 What is apposition ?
- 12 What are cystoliths ?
- 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 ?

Turn over

- 19 Define growth rings.
- 20 Define nectaries.

(10 × 2 = 20 marks)

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 × 5 = 30 marks)

Part D

IV. Answer any *two* questions. Essay 10 marks each :

- 29 Describe with diagrams the anomalous secondary thickening in Bignonia stem.
- 30 Write an essay regarding the various types of reserve food material present in plant parts.
- 31 Describe with diagrams the periderm formation.

(2 × 10 = 20 marks)