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RNLKWC/B.Sc.-CBCS/IIIS/BOT/H/C5T/22

2022

BOTANY
[HONOURS]
(CBCS)

(B.Sc. Third Semester End Examinations-2022)

PAPER-C5T

Full Marks: 40

Time: 02 Hrs

The figures in the right hand margin indicate marks
Candidates are required to give their answers in their own words as
far as practicable
Illustrate the answers wherever necessary

[Morphology Anatomy]

Group - A

1. Answer any five of the following: 5x2=10
- a) What is hydathode? Where is it found?
 - b) What is rhytidome?
 - c) What is periblem.
 - d) Write two applications of plant anatomy in pharmacognosy.
 - e) What are bordered pit?
 - f) What is Kranz anatomy?
 - g) What are mechanical tissues? Write their uses.
 - h) What are tyloses? Give diagram.

(2)

Group – B

2. Answer any four of the following: **4x5=20**
- a) Write notes on Apical cell theory and Histogen theory. 5
 - b) Draw and describe the anatomy of a typical monocot leaf. 5
 - c) Differentiate early wood and late wood. 2.5+2.5
 - d) Discuss the development and composition of periderm. 3+2
 - e) Describe the anomalies in Bignonia and Aristolochia stem. 2.5+2.5
 - f) Draw and discuss the structure of lenticels. 5

Group – C

3. Answer any one of the followings: **1x10=10**
- a) Draw and describe the different types of vascular bundles found in angiosperms. What is meant by intercalary meristem? 5+5
 - b) What is Quiescent centre? Define annual ring. Differentiate adcrustation and incrustation. Give the basic concept of nodal anatomy. Write the seasonal activity of Vascular cambium. 1+1+3+2+3