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RNLKWC/B.Sc.-CBCS/IIIS/BOT/H/C5T/21

2021

BOTANY

[HONOURS]

(CBCS)

(B.Sc. Third End Semester Examination-2021)

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*

Group - A

- 1. Answer any five of the following: 5x2=10**
- a) What are sap wood and Heart wood ? 2
 - b) Define dendrochronology. 2
 - c) What is lithocyst? Where it is found? 2
 - d) What is kranz anatomy? 2
 - e) Write two applications of plant anatomy in plant systematics
 - f) What is Periderm? 2
 - g) Distinguish between vascular cambium and cork cambium 2
 - h) What are plasmodesmata? 2

(2)

Group – B

2. Answer any four of the following: **4x5=20**
- a) Write the ontogeny structure and functions of tracheae. 2+2+1
 - b) Write notes on Tunica and Corpus theory. 2.5+2.5
 - c) What are stomata? Describe the different types of stomata with sketches. 1+4
 - d) Describe the anomalies in the secondary growth of *Boerhaavia stem* and *Dracaena stem*. 2.5+2.5
 - e) Write the comparative account of ring and diffuse porous wood. What is meant by tylosis ? 4+1
 - f) What is root stem transition? Describe the anatomy of a typical dorsiventral leaf. 1+4

Group – C

3. Answer any one of the followings: **1x10=10**
- a) Describe the principle of the construction and distribution of the mechanical tissue of plants. What is stone cell. 8+2 = 10
 - b) Describe with suitable example the anatomical adaptations of xerophytes and hydrophytes. 5+5 = 10
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