



‘समानो मन्त्रः समितिः समानी’

UNIVERSITY OF NORTH BENGAL

B.Sc. Honours 3rd Semester Examination, 2021

CC5-BOTANY

MORPHOLOGY AND ANATOMY OF ANGIOSPERMS

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

GROUP-A

1. Answer any **five** questions from the following: 1×5 = 5
- (a) What is meant by obdiplostemonous condition?
 - (b) Define bordered pits.
 - (c) What is axial parenchyma?
 - (d) What is cremocarp?
 - (e) What is meant by quiescent centre?
 - (f) Give two examples of glandular hair.
 - (g) Explain rhitidome.
 - (h) What are water stomata?

GROUP-B

2. Answer any **three** questions from the following: 5×3 = 15
- (a) What are tracheary elements? Describe their structure and function. 1+2+2
 - (b) Point out the anatomical differences between isobilateral and bifacial leaves. 5
 - (c) Describe the different modifications of calyx with example. 5
 - (d) Write a note on laticiferous ducts. 5
 - (e) Distinguish between early and late wood. 5

GROUP-C

3. Answer any **two** questions from the following: 10×2 = 20
- (a) Discuss the recent concepts of shoot apex organisation in angiosperms. 10
 - (b) Compare the stem and leaf anatomy of a hydrophyte with a xerophyte. 10
 - (c) Write notes on — 5+5
 - (i) Periderm
 - (ii) Kranz Anatomy
 - (d) Describe the application of plant morphology in the field of forensic study and pharmacognosy. 5+5

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