



'সমানো মন্ত্র: সমিতি: সমানী'

UNIVERSITY OF NORTH BENGAL

B.Sc. Honours 3rd Semester Examination, 2021

CC5-TEA SCIENCE

MORPHOLOGY AND ANATOMY

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

1. Answer any **five** from the following: 1×5 = 5
 - (a) What is Phyllotaxy?
 - (b) What is aestivation?
 - (c) Give example of a compound leaf.
 - (d) What is an annular ring?
 - (e) Give example of a dorsiventral leaf.
 - (f) What is phellogen?
 - (g) Why secondary growth is present in dicot plants?
 - (h) Give example of a spadix inflorescence.

2. Answer any **three** from the following: 5×3 = 15
 - (a) Write a brief account on vascular cambium.
 - (b) What is heartwood and sapwood?
 - (c) Write a short note on the types of vascular bundle.
 - (d) Briefly explain apical cell theory.
 - (e) Differentiate between simple and complex tissues.

3. Answer any **two** from the following: 10×2 = 20
 - (a) Give a detailed description on the monocot root with diagram.
 - (b) Explain the mechanism of double fertilization.
 - (c) Classify different types of fruits with example.
 - (d) Describe the structure of a dicot leaf with diagram.

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