



‘समानो मन्त्रः समितिः समानी’

UNIVERSITY OF NORTH BENGAL
B.Sc. Honours 4th Semester Examination, 2023

CC10-BOTANY

PLANT SYSTEMATICS

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 valid publication?
 - (b) What do you mean by cladogram?
 - (c) What do you mean by specific epithet?
 - (d) Name the family in which carpel of the flower is obliquely placed.
 - (e) Name the largest herbarium of India.
 - (f) Name the largest Botanical Garden of the world.
 - (g) What is homonym?
 - (h) Gynobasic style is present in which family?

GROUP-B

2. Answer any **three** questions from the following: 5×3 = 15
- (a) Briefly describe the diagnostic features of family Solanaceae. 5
 - (b) What do you mean by rule of priority? Write the importance of it. 2+3
 - (c) What is typification? Describe in short about various type of specimens with proper explanations. 1+4
 - (d) Write short notes on: 2½+2½
 - (i) Author citation
 - (ii) Principle of priority
 - (e) Describe the major contributions of 2½+2½
 - (i) Theophrastus and (ii) Linnaeus.

GROUP-C

3. Answer any **two** questions from the following: 10×2 = 20
- (a) Give a short account of the biological species concept. Write the advantages and disadvantages of applying this concept. 3+7
 - (b) Compare and contrast the diagnostic feature of family Asteraceae and Euphorbiaceae. 5+5
 - (c) Compare and contrast the Bentham and Hooker’s system of classification with that of Engler and Prantl’s system. Write the merits and demerits of Bentham and Hooker’s system of classification. 6+(2+2)
 - (d) Write in brief the theories of origin of angiosperms. 10

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