

Bankura University
B.Sc 4th Semester (Honours) Examination, 2021
Subject: Botany

Course ID: 41313

Course Code: SHBOT/403/C-10

Course Title: Plant Systematics

Full Marks: 25

Time: 1h 15 min

UNIT I

1. Answer *any five* of the following:

1x5=5

- (a) Define taxonomic hierarchy.
- (b) Write the acronym of Central National Herbarium.
- (c) What is the alternative name of the family Brassicaceae?
- (d) What do you mean by monophyly?
- (e) Name a genus of Orchidaceae bearing unisexual flower.
- (f) What is a monograph in taxonomy?
- (g) Write the full form of ICN.

UNIT II

2. Answer *any two* of the following:

5x2=10

- (a) Distinguish between phenetics and cladistics. Write the major advantages of numerical taxonomy over conventional taxonomy. 2+3=5
- (b) Mention the floral characters of Musaceae. Name one economically important plant of this family stating its uses. 3+2=5
- (c) Write the importance of botanic gardens in taxonomic studies. Name one botanic garden of international repute. 4+1=5
- (d) What do you mean by "rule of priority" of publication of scientific name? Define any three nomenclatural types with examples. 2+3=5

UNIT III

3. Answer *any one* of the following:

10x1=10

- (a) Characterise the family Acanthaceae with suitable sketches. Compare its fruit character with that of Cucurbitaceae. (5+3)+2=10
- (b) Give an outline of the classification proposed by Bentham and Hooker. What do you mean by APG III classification? 8+2=10