

Bankura University

B.Sc. 2nd Semester (Honours) Examination, 2022

Subject: Botany

Course ID: 21314

Course Code: SH/BOT/203/GE-2

Course Title: Plant Ecology, Morphology & Taxonomy

Full Marks: 25

Time: 1 Hour 15 Minutes

The figures in the right-hand margin indicate marks.

Answer all the questions.

UNIT I

1. Answer *any five* of the following questions: 1 × 5 = 5
- a) What are the basic components of an ecosystem?
 - b) What do you mean by sere?
 - c) What is biogeochemical cycle?
 - d) What is Schimper-Braun series?
 - e) What is lodicule?
 - f) What is the full form of ICN?
 - g) Name the acronym of the Central National Herbarium, Howrah?
 - h) Write down the floral formula of the Rubiaceae family?

UNIT II

2. Answer *any two* of the following questions: 5 × 2 = 10
- a) Briefly describe the theories of endemism. Name one endemic species in India 4+1
 - b) What is a Taxon? What are the basic criteria of valid publication of a taxon? 1 + 4 = 5
 - c) What is phyllotaxy? Briefly describe the different types of spiral phyllotaxy? 1 + 4 = 5
 - d) Enumerate the diagnostic characteristics of the family Orchidaceae.

UNIT III

3. Answer *any one* of the following questions: 10 × 1 = 10
- a) What is fruit? What are the different parts of a fruit? Describe the different types of dehiscent and indehiscent fruits. 1+1+8 = 10
 - b) Describe the different stages of the nitrogen cycle. Mention the importance of the nitrogen cycle? 8+2 = 10

