

Bankura University
B.Sc. 4th Semester (Honours) Examination, 2022
BOTANY

Course ID: 41312

Course Code: SHBOT/402/C-9

Course Title: Plant Ecology & Phytogeography

Full Marks: 25

Time: 1h.15 min

The figures in the right hand side margin indicate marks.

UNIT I

1. Answer **any five** questions from the following: 1×5= 5
- (a) What do you mean by acclimation?
 - (b) Site one example of mutualism.
 - (c) What is secondary succession?
 - (d) Distinguish between net primary productivity (NPP) and gross primary productivity (GPP).
 - (e) What is 'keystone species'?
 - (f) What is canopy cover?
 - (g) Name two endemic plant species in India.
 - (h) What is soil horizon?

UNIT II

2. Answer **any two** questions from the following: 5×2= 10
- (a) Write a short note on 'Vegetation of Gangetic plain'.
 - (b) Briefly describe the factors responsible for endemism.
 - (c) Describe allopatric and sympatric speciation with suitable examples. 2.5+2.5
 - (d) Briefly describe the composition and roles of soil micro-organisms.
3. Answer **any one** question from the following: 10×1=10
- (a) Describe the Y-shaped energy flow model with suitable diagram. What is 10% rule of energy transfer? 8+2=10
 - (b) Differentiate population with community. Briefly describe the characteristics of population ecology. 2+8=10