Bankura University

B.Sc 4th Semester (Honours) Examination,2021 Subject: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 margin indicate full marks Answer all the questions.

UNIT I

1. Answer any five of the following questions:

 $(1 \times 5 = 5)$

- a) What is pedogenesis?
- **b)** What are obligate parasites?
- c) What do you mean by micro-consumer?
- d) Differentiate between natality & mortality.
- e) Who is referred to as 'Father of Phytogeography'?
- **f**) Give two examples of artificial ecosystems.
- g) What are 'pioneer species'?
- h) What are 'diazotrophs'?

UNIT II

2. Answer any two of the following questions:

 $(5 \times 2 = 10)$

a) Briefly describe the Phosphorus Cycle.

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b) Write short notes on *any two* of the following:

2.5+2.5=5

- (i) Population dispersion
- (ii) Age pyramid
- (iii) Soil profile
- c) Schematically represent the Pyramid of Energy. What is 10% rule of energy transfer?

3+2=5

d) What do you mean by fundamental and realized niche? How do you differentiate niche from habitat? What is ecotone? 2+2+1=5

UNIT III

3. Answer any one of the following questions:

 $(10 \times 1 = 10)$

- a) Differentiate primary and secondary succession. Describe the process of succession in aquatic ecosystem with suitable examples of vegetation.
- **b)** What is Continental Drift Theory? Briefly describe each phytogeographical zones of India with examples of plant species of each zone. 2+8=10