

**ST JOSEPH’S UNIVERSITY, BENGALURU -27**

**B.Sc. (ENVIRONMENTAL SCIENCE) – II SEMESTER**

**SEMESTER EXAMINATION: APRIL 2023**

**(Examination conducted in May 2023)**

**ES 221 – ECOLOGY-THEORY AND PRACTICE**

**(For current batch students only)**

**Time: 2 Hours Max Marks: 60**

**This paper contains 1 printed page and 3 parts**

**PART-A**

**Answer any SIX of the following 6q X2m = 12m**

1. List the methods of studying Ecology.
2. Define an ecosystem.
3. List any four characteristics of a community.
4. List the types dispersion of a population.
5. What is the succession process on a rocky area called?
6. What are Ecological equivalents? Give an example.
7. Define carrying capacity of an ecosystem.
8. What is Industrial Melanism?

**PART-B**

**Write explanatory notes on any FOUR of the following 4q X7m = 28m**

1. Structure of the Ecosystem
2. Carbon cycle
3. Types of succession
4. Classification of biomes.
5. Liebig’s Law of Minimum
6. Darwin’s postulates.

**PART-C**

**Answer all the questions 2q X10m = 20m**

1. Explain the process of Energy flow in an ecosystem.

**OR**

Write elaborate notes on the types of Ecological Niche.

1. Describe the influence of abiotic factors on flora and fauna (5+5)

**OR**

Explain Batesian and Mullerian mimicry with suitable examples. (5+5)