**ST. JOSEPH’S COLLEGE (AUTONOMOUS), BANGALORE-27**

DATE: 13-04-2018

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

**SEMESTER EXAMINATION: APRIL 2018**

ES 215: Ecology

Time-2 ½ hrs Max Marks-70

(For supplementary candidates)

Do not write the register number on the question paper

Please attach the question paper along with the answer script.

**This paper contains ONE printed pages and THREE parts**

**Instruction: Draw diagrams wherever necessary**

**PART- A**

**Answer any ten of the following: 10 X 2 = 20**

1. Define ecology. List any two divisions
2. Define ‘Ecosystem’. Mention two examples.
3. Differentiate a food chain and a food web.
4. What are biogeochemical cycles? List the types.
5. What is an ecological indicator? Give an example.
6. What are ecological equivalents? Give an example.
7. Differentiate immigration and emigration.
8. What is niche partitioning? Give an example.
9. What is photo-periodism?
10. State the Liebig’s law of minimum.
11. What is pesticide resistance?
12. Define ‘co-evolution’. Cite an example.

**PART- B**

**Write explanatory notes on any four of the following: 4 X 5 = 20**

1. Pond ecosystem
2. Anthropogenic influences on Carbon cycle
3. Hydrarch
4. r and K strategies
5. Types of niches
6. Industrial melanism

**PART- C**

**Answer all the following: 10 X 3 = 30**

1. Write an elaborate note on Homeostasis and feedback.

**OR**

Comment on the energy flow in ecosystems.

1. Write note on the characteristics of a community

**OR**

Discuss the characteristics of a population.

1. Discuss the effects of light on vegetation.

**OR**

Discuss the impact of temperature on animals.