ST. JOSEPH'S COLLEGE (AUTONOMOUS), BANGALORE-560 027

MID-SEMESTER EXAMINATION - AUGUST 2019

B.Sc. ENVIRONMENTAL SCIENCE – III SEMESTER

ES318: ENVIRONMENTAL MICROBIOLOGY, ENVIRONMENTAL BIOTECHNOLOGY AND BIOSTATISTICS

TIME: 1 Hour **Max. Marks: 30**

Instruction: Draw diagrams wherever necessary

PART-A

Answer any five of the following. **5x2=10**

1. Define Environmental microbiology. List any two of its significances.
2. What are neutrophiles? Mention two examples.
3. What is a sick building syndrome?
4. Differentiate between atmospheric pressure and hydrostatic pressure.
5. Define soil microflora. Mention two examples.
6. Differentiate between a population and a sample.
7. Differentiate between univariate and bivariate data.

PART-B

Write explanatory notes the following. **2x5=10**

8. Role of salinity on microbial growth.

OR

In-situ bioremediation techniques.

9. Key differences between Bar diagram and Histogram.

OR

Construct a Pie chart using the following data.

Vector borne diseases	Malaria	Dengue	Chikungunya	Zika
Number of patients	250	1750	850	150

PART- C

Answer the following. **1x10=10**

10. Discuss the role of temperature as an environmental determinant.

OR

Explain the various random and non-random sampling techniques.