Date:12-12-2022 (9am )

Registration number:



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

**B.Sc. ENVIRONMENTAL SCIENCE - V SEMESTER**

**SEMESTER EXAMINATION: FEBRUARY 2021**

**ES 5218 – Environmental Sanitation, Health and Safety**

**and Environmental Toxicology**

**Time- 2 ½ hrs Max Marks-70**

**This question paper comprises of 3 parts and two printed pages**

**Instruction: Draw diagrams wherever necessary**

**PART – A**

**Answer any TEN of the following 10X2 = 20**

1. List the steps in solid waste management.
2. Differentiate biodegradable and non-biodegradable wastes.
3. What is Occupational health?
4. Differentiate sound and noise.
5. What is a bio hazard?
6. What is Life Cycle Analysis?
7. Differentiate toxicants and pollutants.
8. What are agricultural xenobiotics?
9. Define No Effect Level.
10. Define Hyposensitivity.
11. What is LC50?
12. What is Selective toxicity?

**PART – B**

**Write explanatory notes on any FOUR of the following 4X5 = 20**

1. Segregation of Biomedical Wastes
2. Silicosis
3. Fukushima episode
4. Liquid Scintillation counter
5. Bioassay and its types
6. Biological factors affecting toxicity

**PART – C**

**Answer ALL the questions 3X10 = 30**

19. Present an account of energy recovery and disposal of urban solid wastes.

**OR**

Explain the ill-effects of radiation on human beings.

20. Provide an account of the non-auditory effects of noise on human beings. Add a note on noise standards. (6+4 = 10 m)

**OR**

Comment on Absorption and Excretion with respect to toxicology.

21. Present a detailed account of experimental design of acute toxicity studies.

**OR**

Explain the various categories of toxic effects.