



REG NO:

DATE: 27-11-2020

ST. JOSEPH'S COLLEGE (AUTONOMOUS), BENGALURU – 27  
B.Sc. ENVIRONMENTAL SCIENCE – V SEMESTER  
SEMESTER EXAMINATION: OCTOBER 2020

**ES – 5218: ENV. SANITATION, HEALTH & SAFETY AND ENV. TOXICOLOGY**

TIME: 2½ HOURS

MAX MARKS: 70

This question paper comprises of 3 parts and one printed page

Instruction: Draw diagrams wherever necessary

**PART – A**

Answer any ten of the following

10X2 = 20

1. What is sanitary value chain?
2. List the 5Rs of principle of waste management.
3. List any four categories of biomedical wastes.
4. What is Dosimetry?
5. List any two effects of noise pollution.
6. Define Asbestosis. List any two symptoms.
7. What is environmental labelling?
8. What is an EMS? List any two of its advantages.
9. What are Xenobiotics? List any two agricultural xenobiotics.
10. Compare Acceptable Daily Intake and Virtual Safety
11. List the objectives of chronic toxicity studies.
12. Define LC<sub>50</sub> and LD<sub>50</sub>.

**PART – B**

Write explanatory notes on any four of the following

4X5 = 20

13. Solid Waste Management Rules, 2016
14. E-waste and its management
15. Fukushima episode
16. LCA – general principles and practices
17. Hypersensitivity
18. Bioassay and its types

**PART – C**

Answer all the questions

3X10 = 30

19. With a sketch, provide a detailed account of the incineration of solid waste.

OR

Explain the techniques of salvaging materials from solid wastes.

20. Explain the occupational pneumoconiosis with reference to silicosis.

OR

Discuss the impacts of radiation on human.

21. Describe the steps involved in the experimental design of acute toxicity studies.

OR

Discuss the toxicokinetic processes (ADME) that control the fate of chemicals within the body.

ES-5218-A-20