



Register Number:

DATE: 28-10-2019

ST. JOSEPH'S COLLEGE (AUTONOMOUS), BENGALURU – 27
B.Sc. ENVIRONMENTAL SCIENCE – V SEMESTER
SEMESTER EXAMINATION: OCTOBER 2019

ES – 5215: 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. Define solid waste management.
2. What are the five 'R's of solid waste management?
3. What are hazardous wastes?
4. What is chromosomal aberration?
5. Define noise pollution. Mention the unit of its measurement.
6. List any four physical hazards with respect to occupational health.
7. What is anthracosis? List its symptoms.
8. Define environmental toxicology.
9. Differentiate a contaminant and a pollutant.
10. Define bioassay. Mention its types.
11. Differentiate dose and dosage.
12. Compare safety and risk.

PART – B

Write explanatory notes on any four of the following

4X5 = 20

13. Plastic management rules, 2016
14. Dosimetry
15. Auditory effects of noise on man
16. Salient features of the Factories Act, 1948
17. Significance of LD₅₀ and LC₅₀ in toxicity studies
18. Factors affecting toxicity tests

PART – C

Answer all the questions

3X10 = 30

19. Write elaborate notes on the management methods of urban solid waste.

OR

Explain the techniques of salvaging materials from solid wastes.

20. Describe the effects of occupational pneumoconiosis with reference to Silicosis.

OR

Discuss the methods of bio-medical waste management.

21. Explain the experimental design of acute toxicity studies.

OR

Describe the various categories of toxic effects.