



REG NO:

DATE: 30-11-2020

ST. JOSEPH'S COLLEGE (AUTONOMOUS), BENGALURU-27
B.Sc. ENVIRONMENTAL SCIENCE V-SEMESTER
SEMESTER EXAMINATION: NOVEMBER 2020
ES 5118: AIR, WATER AND LAND POLLUTION

Time: 2½ Hours

Max. Marks: 70

This question paper contains one printed page and three parts.

Instruction: Draw diagrams wherever necessary.

PART- A

Answer any ten of the following.

10×2=20

1. Define air pollution.
2. Differentiate between point source and area source of air pollution.
3. What is necrosis of leaves?
4. Write the formula for calculating Stoke's settling velocity of particles.
5. What is the effect of air pollutants on electronic goods?
6. What are the stages of primary treatment of sewage?
7. What is a zoogloal film?
8. What is an oil boom?
9. What is Minamata disease?
10. What is soil sickness?
11. What is chemo remediation of soil?
12. Mention any two adverse effects of water logging.

PART- B

Write explanatory notes on any four of the following.

4×5=20

13. Rubber cracking
14. Louvre type inertial separator
15. Air Quality Index
16. Trickling filter
17. Wet Cooling tower
18. Pesticide pollution

PART- C

Answer all questions.

3×10=30

19. Discuss the impact of air pollution on human.

OR

With the help of a neat sketch, explain the working mechanism of a pipe type electrostatic precipitator.

20. With the help of a flow diagram, explain the Activated Sludge Process.

OR

With the help of a flow diagram, explain the effluent treatment of an electroplating industry.

21. Give an account of the reclamation of saline and alkaline soil.

OR

Discuss the various phyto-remediation techniques of the contaminated soil.