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

Registration Number:

Date & Session: 7-12-2022 (9am)

**B.Sc (ENVIRONMENTAL SCIENCE) – V SEMESTER**

**SEMESTER EXAMINATION: OCTOBER 2022**

**(Examination conducted in December 2022)**

**ES 5118: Air, Water and Land Pollution**

**Time: 2 ½ Hours Max Marks: 70**

**This paper contains one printed page and three parts**

**PART- A**

**Answer any TEN questions 10×2 = 20**

1. Define air pollution.
2. What is smog?
3. What is a photolytic reaction? Give an example.
4. What is emphysema?
5. What is an atopy? Give an example.
6. What is an Air Quality Index?
7. What is plumbism?
8. Mention the main sources of thermal pollution.
9. What are organochlorine pesticides? Give an example.
10. What was the cause of Exxon Valdez oil spill?
11. Define land pollution.
12. What are the effects of water logging?

**PART – B**

**Write explanatory note on any FOUR of the following 4 ×5 = 20**

1. Phagocytosis
2. Rubber cracking
3. Drinking Water Quality Standards
4. Arsenicosis
5. Effects of thermal pollution on aquatic biota
6. The Love Canal Tragedy

**PART- C**

**Answer ALL the questions 3×10 = 30**

1. With a neat sketch, explain the working principle and uses of a pipe type ESP.

**OR**

With neat sketches, explain the different types of scrubbers.

1. With a help of a schematic diagram, explain the Activated Sludge Process.

**OR**

Discuss the effects of oil pollution on marine biota. Add a note on oil booms. (6+4)

1. Discuss the various phytoremediation methods of a contaminated land.

**(OR)**

Discuss the land amendment with reference to phyto-capping technique.