QP Code: U25DRIS016

Reg. No : .....
Name : .....

ST MARY'S COLLEGE (AUTONOMOUS), THRISSUR-20

I SEMESTER (FYUGP/FYVP) DEGREE EXAMINATIONS, NOVEMBER 2025
(Regular/Improvement/Supplementary)
CHE1FM105 : Environmental Chemistry
2024 Admission Onwards
(Credits: 3)

Time:1. 5 Hours **Maximum Marks: 50**

Section A

*Answer **All**. Each question carries **2** Marks.* ***(Ceiling: 16 Marks)***

1. Mention any three functions of the atmosphere.
2. What are the abiotic components of the environment?
3. Interpret the role of the stratosphere for protecting the living organisms on earth?
4. Evaluate the use of Ammonia and CO_2 as alternative refrigerants.
5. What are the negative consequences of pharmaceutical waste?
6. What are the sources of contamination in marine water?
7. What are some common sources of soil pollution from industrial activities?
8. List the harmful effects of biomedical waste on both human health and the environment.
9. Compare the effects of thermal pollution and radioactive pollution.
10. Explain how degradable wastes differ from non-degradable wastes in terms of their impact on soil health.

Section B

*Answer **All**. Each question carries **6** Marks.* ***(Ceiling: 24 Marks)***

11. Describe the various parts of the environment.
12. Differentiate between pollutant and contaminant.
13. Analyse the effects of CFCs on stratospheric ozone depletion and how it can be prevented?
14. Assess the quality of water using BOD and COD methods.
15. Compare plastic and pesticide pollution in terms of sources and effects on ecosystems. Suggest different control measures for both.

Turn Over

Section C

Answer ***any one****. Each question carries* ***10*** *Marks.* ***(1x10=10 Marks)***

16. Analyze and compare the causes and consequences of photochemical and London smog.
17. List out the various water quality parameters. How are these parameters determined experimentally?

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