



16

K22P 0159

Reg. No. :

Name :

II Semester M.Sc. Degree (CBSS – Reg./Supple./Imp.) Examination, April 2022
(2018 Admission Onwards)

CHEMISTRY**CHE2E.01 : Environmental Chemistry and Disaster Management**

Time : 3 Hours

Max. Marks : 60

SECTION – AAnswer **all** questions in **one** word or **one** sentence. **Each** question carries **one** mark.

1. What is a primary air pollutant ?
2. Define resilience.
3. What is remote sensing ?
4. What are the constituents of photochemical smog ?
5. What is eutrophication ?
6. Name the instrument used to measure cadmium in an effluent sample.
7. Define air pollution.
8. What is disaster management ?

(8×1=8)

SECTION – BAnswer **any eight** questions. Answer may be **two** or **three** sentences. **Each** question carries **two** marks.

9. Differentiate COD and BOD.
10. What are the consequences of acid rain ?
11. Give two applications of ion selective electrode.
12. Explain soil profile.
13. How can we classify disasters ?
14. What are the components of GIS ?
15. What is the principle behind the working of GC ?

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16. What are the effects of radioactive pollution ?
17. Give two methods to control soil pollution.
18. Write a short note on air quality standards.
19. What is disaster mitigation ?
20. What is Kyoto protocol ?

(8×2=16)

SECTION – CShort paragraph questions. Answer **any four** questions. **Each** question carries **3** marks.

21. Explain Bhopal gas disaster.
22. What are the steps involved in disaster management cycle ?
23. What are the causes and consequences of ozone layer depletion ?
24. Explain various segments of atmosphere.
25. Briefly explain the features of Disaster Management Act in India.
26. Write short notes on risk management and crisis management.
27. What are the threats of carbon dioxide pollution ?
28. Explain some measures that can be adopted to control thermal pollution.

(4×3=12)

SECTION – DEssay type questions. Answer **four** questions. **Each** question carries **6** marks.

29. Explain the sources and effects of air pollution.

OR

Explain the various strategies of disaster management plan in India.

30. Explain the working of AAS with its principle and instrumentation.

OR

Discuss sewage treatment processes.

31. Explain the organizational structure in disaster management in India.

OR

Explain the toxic effects of pesticides in man and environment.

32. Explain some technologies adopted for disaster management.

OR

Discuss the formation and adverse effects of photochemical smog.

(4×6=24)