



K20P 0309

Reg. No. :

Name :

**II Semester M.Sc. Degree (CBSS-Reg./Suppl./Imp.) Examination, April 2020
(2014 Admission Onwards)**

CHEMISTRY

CHE2 E.01 : Environmental Chemistry and Disaster Management

Time : 3 Hours

Max. Marks : 60

SECTION – A

Answer **all** questions in **one** word or **one** sentence. **Each** question carries **one** mark.

1. What is thermal pollution ?
2. What are primary pollutants ?
3. Define a pollutant.
4. Mention the sources of radioactive pollution.
5. When did Environmental Protection Act came into force ?
6. What is acid rain ?
7. What is a chromatogram ?
8. Differentiate smoke and smog.

(8×1=8)

SECTION – B

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

9. Write the principle of AAS.
10. What is Green House Effect ?
11. Differentiate natural and man-made disasters.
12. Mention the layers of atmosphere.
13. Differentiate disaster and hazard.
14. What are the effects of global warming ?
15. Mention the sources and impacts of radioactive pollution.
16. What are environmental impacts of a disaster ?
17. Write the principle of gas chromatography.
18. Write a note on photochemical smog.
19. Mention the impacts of climate change.
20. What is remote sensing ? Write the major steps in remote sensing.

(8×2=16)

P.T.O.



SECTION – C

Short paragraph questions. Answer **any four** questions. **Each** question carries **3** marks.

21. Mention the sources of SO_2 in the atmosphere and its impacts on plants.
22. What is ozone depletion ?
23. How dissolved oxygen in water is determined ?
24. What are pandemics ?
25. Describe the organizational structure for disaster management in India.
26. Write the principle and applications of X-ray fluorescence.
27. Describe any two air pollution accidents in India.
28. Mention the steps in disaster management cycle. (4×3=12)

SECTION – D

Essay type questions. Answer **four** questions. **Each** question carries **6** marks.

29. A) Discuss the process of vulnerability analysis.
OR
B) Describe the waste water treatment methods.
30. A) Mention the sources of soil pollution. Describe the pollution control methods.

OR

- B) Describe the type and effects of urban disasters.
31. A) Mention the steps for formulating a disaster risk reduction plan.

OR

- B) Describe the instrumentation of AAS. Mention its application in chemical analysis.
32. A) What is Green House Effect ? Mention the types and sources of green house gases in the atmosphere.

OR

- B) Mention the water quality parameters. Describe the procedure for the determination of COD in water. (4×6=24)
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