Reg. No. : ....

Name : ....

II Semester M.Sc. Degree (CBSS – Reg./Suppl. (Including Mercy Chance)/ Imp.) Examination, April 2021
(2014 Admission Onwards)
CHEMISTRY
CHE2E.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 an epidemic ?

2. What are greenhouse gases ?

3. Define a xenobiotic.

4. What is los angeles smog ?

5. Write any two uses of biofilms.

6. What is non-point source of pollution ?

7. Define black carbon.

8. What is GIPs ?

(8×1=8)

SECTION – B

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

9. What is an aquifer ?

10. Define oxygen demanding waste.

P.T.O.

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11. What are secondary air pollutant ?

12. What are water-borne diseases ?

13. Define biomagnification.

14. What is high volume air samples ?

15. Define nuclear fission.

16. Composition of storm water.

17. Define activated sludge.

18. What are air pollution indicators ?

19. What is photochemical smog ?

20. Define risk analysis.

(8×2=16)

SECTION – C

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

21. Describe the process of soil formation.

22. Illustrate the vertical stratification of atmosphere.

23. What is oxygen sag curve ?

24. Comment on risk management act and policy in India.

25. Classify the different pesticides based on their chemical properties.

26. What are the climatic factors that triggered Bhopal gas tragedy ?

27. What are tertiary waste water treatment methods ?

28. Describe any two detectors of gas chromatography.

(4×3=12)

SECTION – D

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

29. A) Describe the process of preparedness, planning and development of risk reduction plan with reference to Tsunami.

OR

B) Describe the causes and effect of eutrophication.

30. A) Explain the sources of pollution in soil and their control measures.

OR

B) Explain the methods for control of air pollution in industries.

31. A) Describe the principle, instrumentation and environmental applications of AAS.

OR

B) What are the sources and effects of radioactive pollution ?

32. A) Explain the climate changed induced disasters and mitigatory measures.

OR

B) Describe the applications of remote sensing and GIS in disaster prediction and management.

(4×6=24)