



K19P 0267

Reg. No. :

Name :

**II Semester M.Sc. Degree (Reg./Suppl./Imp.) Examination, April 2019
(2014 Admission Onwards)**

CHEMISTRY

CHE 2E01 : 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. Define stratopause.
2. What is humus ?
3. Define a contaminant.
4. What is PAN ?
5. Write down important characteristics of organochlorine pesticide.
6. Define biomonitoring.
7. What are point sources of pollution ?
8. Write down environmental application of GIS.

SECTION – B

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

9. What are soil minerals ?
10. What is acid deposition ?

P.T.O.

11. Define hazardous waste.
12. What is risk assessment ?
13. Applications of trickling filters.
14. What are environmental mutagens ?
15. Define ambient air quality.
16. What is soil erosion ?
17. Define non-degradable pollutants.
18. What are the reasons for soil salinization ?
19. Write the process of anaerobic digestion of wastes.
20. Define global warming potential.

SECTION – C

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

21. Explain disaster management cycle.
22. What are the causes of acid rain ?
23. Illustrate the soil horizons and pollutant disposal.
24. What are the primary waste water treatment methods ?
25. Describe the socio-economic impacts of floods.
26. Explain the composition of sea water.

SECTION – D

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

27. A) What are the sources of air pollutants ? Describe its effects on plants.

OR

- B) Write an account on the composition of various water sources.



28. A) Describe the biological treatment methods of sewage.

OR

- B) Explain the sources and control of thermal pollution.

29. A) Describe the principle, instrumentation and environmental applications of GIS.

OR

- B) What are the pollutants in drinking water ? Comment on the different standards of drinking water.

30. A) What are natural disasters ? Explain the cause of cyclones in the tropics.

OR

- B) Describe the socio-economic impacts of earthquakes.