D 92933	
---------	--

(Pages: 2)

Name	

THIRD SEMESTER (CBCSS_UG) DEGREE EXAMINATION NOVEMBER 2020

Environment and Water Management

EWM 3B 03—ENVIRONMENTAL CHEMISTRY—I

Time: Two Hours

Maximum: 60 Marks

Section A

Answer atleast seven questions. Each question carries 2 marks. All questions can be attended. Overall Ceiling 14.

- 1. What are Aerosols?
- 2. What is TLC?
- 3. What is Capillary water?
- 4. Define Beer Lamberts law.
- 5. Distinguish between persistent and non persistent pollutants.
- 6. What are primary nutrients?
- 7. Define radioactive pollution.
- 8. Which are the major zones of the atmosphere?
- 9. What are secondary pollutants?
- 10. What are the effects of carbon monoxide on human beings?

 $(7 \times 2 = 14 \text{ marks})$

Section B

Answer atleast **five** questions. Each question carries 6 marks. All questions can be attended. Overall Ceiling 30.

- 11. Explain the various sources of soil pollutants.
- 12. What are the sources and sinks of carbon dioxide?
- 13. Explain hydrological cycle.
- 14. Give an account of air quality standards.

- 15. Briefly describe the ion exchange chromatography.
- 16. What are the different types of chromatography?
- 17. Give an account of soil water.

 $(5 \times 6 = 30 \text{ marks})$

Section C

Answer any **two** questions. Each question carries 8 marks.

- 18. What is global warming? Explain the causes and effects of global warming.
- 19. Explain the different chemical reactions in the atmosphere.
- 20. Give an account of essential elements in soil.
- 21. Give an account of working principle and components of flame photometer.

 $(2 \times 8 = 16 \text{ marks})$