K25P 2873

Reg. No. : .....

Name : .....

III Semester M.Sc. Degree (C.B.C.S.S. – O.B.E. – Reg./Supple./Imp.) Examination, October 2025
(2023 Admission Onwards)
CHEMISTRY/CHEMISTRY WITH DRUG CHEMISTRY SPECIALIZATION
(Open Elective Course)
MSCHD03O02/MSCHE03O02 : Environmental Chemistry and Disaster Management

Time : 3 Hours Max. Marks : 60

SECTION – A

Answer **any 5** questions. **Short answer** questions. **Each** question carries **3** marks.

1. Define hazard and risk. Give one example for each.
2. What is the purpose of Material Safety Data Sheet (MSDS) ?
3. What is resilience in the context of disaster management ?
4. Define BOD and state its significance in water quality assessment.
5. Define flash point and fire point of fuels.
6. Define a pollutant. Give one example each for natural and anthropogenic pollutants. **(5×3=15)**

SECTION – B

Answer **any 3** questions. **Paragraph** questions. **Each** question carries **6** marks.

7. Explain the composition of sea water and river water.
8. Explain the classification of hazardous symbols and give one example for each category.
9. Describe the various stages of the disaster management cycle.
10. Explain the process of eutrophication and its environmental impacts.
11. Discuss the harmful effects of sulphur dioxide (SO_2) and nitrogen oxides (NO_x) on human health. **(3×6=18)**

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SECTION – C

Answer **any 3** questions. **Essay** type questions. **Each** carries **9** marks.

12. Describe the causes, consequences and control measures of the greenhouse effect.

13. Discuss safety measures and first aid procedures for burns caused by acids, alkalis, phenol and bromine.

14. Write a note on the major nuclear disasters and their management.

15. Discuss sewage treatment methods and industrial waste water treatment processes.

16. Explain the principle of Atomic Absorption Spectroscopy (AAS). Discuss the applications of AAS in pollution analysis. **(3×9=27)**

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