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MCH-023

M. SC. IN CHEMISTRY/

M. SC. IN ANALYTICAL CHEMISTRY

(MSCCHEM/MSCANCHEM)

Term-End Examination

June, 2026

MCH-023 : ENVIRONMENTAL CHEMISTRY

Time : 2 Hours

Maximum Marks : 50

Note : Answer any *five* questions. All questions carry equal marks.

1. (a) Name the *three* main classes of rocks and explain the formation of any *one* of these. 5

- (b) Write the full form of ISSS. Name the methods of mechanical analysis of soil texture and briefly describe any *one* of these. 5
2. (a) List the functions of boron as a micronutrient in plants. 5
- (b) Explain how the abnormal properties of water help in the operations of hydrological cycle. 5
3. (a) Define alkalinity and differentiate it from basicity. Explain with the help of an example. 5
- (b) What are the different parameters of water quality concerns for agricultural

use ? Describe in brief the effect of any
one of these parameters. 5

4. (a) What are the various forms of frozen
precipitation in the atmosphere ?
Briefly describe the process of
precipitation. 5

(b) Describe the influence of wind speed
and wind direction on the dispersion of
air pollutants. 5

5. (a) What is photochemical smog ? Write the
pollutants involved in it. 5

(b) Write the full form of NAMP and
AAQM. Give their role in air quality
monitoring. 5

6. (a) What type of effluents arise from textile industry ? Explain the main textile waste water problems. 5
- (b) Define integrated pest management. Write any *three* advantages of IPM. 5
7. (a) What are Planktons ? Name the classes of planktons and explain their significance. 5
- (b) How is the land pollution by wastes different from those of water or air pollution especially in urban areas ? Explain. 5

8. Write short notes on any *two* of the following : 2×5=10

- (a) Beneficial role of soil organisms
- (b) Stages in hydrological cycle
- (c) Effect of air pollutants on visibility
- (d) Occurrence of hazardous waste

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