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Total No. of Questions: 15

# M.Sc.(Chemistry) (2018 Batch) (Sem.-1) ENVIRONMENTAL CHEMISTRY

Subject Code: CHL-405-18 M.Code: 75117

Time: 3 Hrs. Max. Marks: 50

### INSTRUCTION TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of FIVE questions carrying TWO marks each.
- SECTION-B contains EIGHT questions carrying FOUR marks each and students have to attempt any SIX questions.
- SECTION-C will comprise of TWO compulsory questions with internal choice in both these questions. Each question carries EIGHT marks

### SECTION-A

# Answer the following:

- Name common pesticides responsible for soil and water pollution.
- Q2. With the help of chemical equations, explain how ozone, a constituent of tropospheric reactions is formed and removed?
- Q3. Enlist various parameters used to assess the quality of air and water pollution.
- Q4. State the different atmospheric stratification.
- Define nuclear fallout and biodegradability.

### SECTION-B

- Q6. Discuss various sources and classification of air pollutants.
- Write about mercury pollution in water and its determination as organomercurals.
- Q8. How will you determine the chloride and heavy metal content in water?

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- Discuss the role of chromatography in analysis of water pollution.
- Q10. Discuss various reasons for acidic soil.
- Q11. Write about pesticide degradation by microbes and their role in soil protection.
- Q12. Briefly discuss the effects of radiations on man and environment.
- Q13. Discuss Minamata disaster.

## SECTION-C

Q14. Discuss in detail various effects of water and air pollution on life and environment.

OR

Discuss various methods to determine the organic contents in water.

Q15. Elaborate in detail on the pesticide residue analysis in soil.

OR

Write an informative note on the protection and control from radiation toxicity.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

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