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Total No. of Pages : 02

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 :**

1. SECTION-A is COMPULSORY consisting of FIVE questions carrying TWO marks each.
2. SECTION-B contains EIGHT questions carrying FOUR marks each and students have to attempt any SIX questions.
3. 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 :**

- Q1. 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.
- Q5. Define nuclear fallout and biodegradability.

SECTION-B

- Q6. Discuss various sources and classification of air pollutants.
- Q7. Write about mercury pollution in water and its determination as organomercurals.
- Q8. How will you determine the chloride and heavy metal content in water?

- Q9. 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.