

M.Sc. (Envi.) Semester - 2 (CBCS) Examination**March/April - 2025****Environmental Chemistry (Core)****Time: 2:30 Hours****Marks: 70****Instructions:**

1. All questions are compulsory.
 2. Figures to the right indicate marks.
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- Que-1 Answer the following: (Any Seven) (14)**
1. Explain stoichiometry.
 2. What is chemical equilibrium?
 3. What are the importance of filtration.
 4. Define coagulation.
 5. Explain the importance of NPKs.
 6. What are the steps of nitrogen pathway?
 7. What is organic compound?
 8. What are the effect of carbon monoxide on human health?
- Que-2 Answer the following: (Any two) (14)**
1. Write a note on acid-base reaction.
 2. Describe the saturated and unsaturated hydrocarbons in detail.
 3. Explain the Gibbs energy.
- Que-3 Answer the following (Any two) (14)**
1. Explain the sedimentation.
 2. Describe the Biological Oxygen Demand.
 3. Write a detailed note on redox potential.
- Que-4 Answer the following (Any two) (14)**
1. Describe the degradation of fungicides in soil.
 2. Write in detail NPK in soil.
 3. Enlist the soil microorganism and explain their functions.
- Que-5 Answer the following: (Any two) (14)**
1. Describe the effect of pesticides and insecticides on environment.
 2. Write a note MIC carginogens in the air.
 3. Discuss pesticides in water.
