

M.SC(Envi.) Semester – 2 (CBCS) Examination**March/April - 2024****Air and Water Pollution (Core)****Time: 02:30 Hours****Marks: 70****Instructions:**

1. All questions are compulsory.
2. Figures to the right indicate marks.

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- Q.1 Answer the following (any 7) 14**
- (1) State the long term impact pollution on human health of air
 - (2) How do we know when water is drinkable or usable?
 - (3) Name some of the chemicals and drugs which can be derived from the ocean.
 - (4) Which are the major components of air?
 - (5) What are conservative pollutants and give two examples?
 - (6) What are “El Nino and La Nina”?
 - (7) What are causes and effects of ozone layer depletion?
 - (8) Global warming is the main causative for sea level rise - Explain
 - (9) Name some of the major hazardous chemicals in form of pollutants in air.
 - (10) State the major causes of water pollution
- Q.2 Answer the following (any two) 14**
- (1) Describe the types and sources of pollutants
 - (2) Explain the mechanism of green house gases and concept of global warming
 - (3) State the major classification of air pollutants
- Q.3 Answer the following**
- (1) Describe the plume behaviour and dispersion of air pollutants **05**
 - (2) Explain – wind velocity and turbulence **05**
 - (3) Explain – Temperature lapse rates **04**
- OR**
- Q.3 Answer the following 14**
- (1) Write a detailed note on sampling and measurement of air pollutants
 - (2) State the controlling measures of air pollutants
- Q.4 Answer the following**
- A. Attempt any two 10**
- (1) Describe the sources of thermal pollution
 - (2) Write a note on types and sources of water pollution
 - (3) Discuss the prevention measures for thermal pollution
- B. Attempt any one 04**
- (1) Give an account for effects of thermal pollution on marine life
 - (2) Write a note on thermal power plant pollution
- Q.5 Answer the following (any two) 14**
- (1) Write a detailed note on preliminary and primary treatment of wastewater
 - (2) Explain – some methods removal of nitrogen and phosphorus from wastewater
 - (3) Which are the advanced biological systems for treatment of wastewater
 - (4) Purification of water - Explain
