

2054  
B.E. (Mechanical Engineering)  
Eighth Semester  
HS-806: Environment Sciences

Max. Marks: 50

Time allowed: 3 Hours

*NOTE: Attempt five questions in all, including Question No. 1 which is compulsory and selecting two questions from each Unit.*

x-x-x

I. Attempt the following:-

- a) What are the major components of environment?
- b) Define level of tolerance.
- c) Differentiate between primary and secondary pollutants.
- d) What are the different types of air pollution?
- e) What are the main sources of land pollution? (5x2)

**UNIT - I**

- II. a) How do ecology and environmentalism differ? In what way does environmentalism depend on the science of ecology? (2x5)  
b) What Is Ecological Balance? Describe its importance.
- III. a) Explain the principles of air pollution control and various control equipments at source.  
b) The layer of life-protecting ozone is found at the top of the stratosphere. However, it is getting depleted. What is the impact of Antarctic ozone hole progression on human health? (2x5)
- IV. a) Explain with examples the natural changes of environment.  
b) Describe the principal characteristics of environment. (2x5)

**UNIT - II**

- V. a) What are the various groundwater remediation technologies?  
b) Describe in detail the method of Chemical Oxygen Demand (COD). (2x5)
- VI. a) Why burning waste is not an acceptable practice of solid waste management?  
b) Describe the different sources and characteristics of solid waste. (2x5)
- VII. a) What are the ill effects of noise pollution on health?  
b) Describe the methods to control noise pollution. (2x5)

x-x-x