

M.Sc. ENVIRONMENTAL SCIENCE
First Semester
Environmental Pollution
(MEV - 03)

Duration: 3Hrs.

Full Marks: 70

(PART-B: Descriptive)

Duration: 2 hrs. 40 mins.

Marks: 50

1. Answer the following questions (any five)

2 × 5 = 10

- i) SPM
- ii) Acid rain
- iii) Oil pollution
- iv) Ecomark
- v) Fresh Air
- vi) Pollution from NO_x
- vii) ISO certification

2. Answer the following questions (any five)

3 × 5 = 15

- i) What are the objectives of the Air (Prevention and Control of pollution) Act, 1981.
- ii) Describe Bio-indicators with suitable example.
- iii) Define thermal pollution? What are the different sources of thermal pollution?
- iv) What is environmental toxicology? How toxic substances enter into the human body?
- v) Write a short note on EIA.
- vi) Write a short note on Minamata Disease.
- vii) Differentiate between point and non-point pollution.

3. Answer the following questions (any five)

5 × 5 = 25

- i) Describe the process of eutrophication.
- ii) Write a note on the constitution of Central Board as provided under subsection 2 of Section 3 of the Water (Prevention and Control of Pollution) Act, 1974
- iii) Explain briefly the concept of climate change with special reference to greenhouse effect and global warming.
- iv) What is noise pollution? What are the important causes of noise pollution and its effect on human health?
- v) What are Biopollutants? Explain how biopollutants are harmful to us.
- vi) Discuss the adverse effects of water pollution.
- vii) Write a note on sources and control measures of air pollution.

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PART A: Objective

Duration: 20 minutes

Marks – 20

Select the correct answer:

1 × 20 = 20

(Put 'v' mark on the appropriate answer)

- 1) The Water (Prevention and Control of Pollution) Act was passed in
 - a) 1979
 - b) 1977
 - c) 1978
 - d) 1974
- 2) Unit to measure noise pollution
 - a) cal.
 - b) Decibel
 - c) lux
 - d) none of above
- 3) Human ear can hear sound of range between
 - a) 20-200000 hz
 - b) 20-200 hz
 - c) 20-2000 hz
 - d) 20-20000 hz
- 4) The Air (Prevention and Control of Pollution) Act was passed in
 - a) June, 1981
 - b) May, 1981
 - c) May, 1971
 - d) June, 1971
- 5) Eutrophication is type of
 - a) Air pollution
 - b) Water pollution
 - c) Radio-active pollution
 - d) Noise pollution
- 6) Excessive use of fertilizer causes
 - a) Air pollution
 - b) Water pollution
 - c) Noise pollution
 - d) None of above
- 7) Give full form of EPA _____
- 8) Write full form of GAP _____
- 9) What is the full form of YAP _____
- 10) Give the full form of SPM _____
- 11) Which part of body is affected most by smog?
 - a) Excretory system
 - b) Digestive system
 - c) Reproductive system
 - d) Respiratory system

- 12) Aflatoxin is kind of
a) Food contaminant b) Air contaminant
c) Water contaminant d) All the above
- 13) The toxic compound from manufacture of dye is
a) Vinyl chloride b) Benzidine
c) 4,4-methylenebis d) None of above.
- 14) The key nutrient responsible for eutrophication
a) Nitrogen b) Phosphorous
c) Both a & b d) None of above
- 15) Which species indicates deep water level
a) *Phragmites sp* b) *Prosopis sp*
c) *Cassia sp* d) *Hydrilla sp*
- 16) Give the full form of EIA _____
- 17) Smog is dangerous pollutant formed by
a) Smoke b) Fog
c) Dust d) Both a & b
- 18) Pollen grain is kind of
a) Air pollutant b) Bio pollutant
c) Water pollutant d) Microbial pollutant
- 19) Oligotrophic means
a) Rich in nutrient b) Poor in nutrient c) None of above
- 20) Which element damages human teeth and bone?
a) Copper b) Cadmium
c) Fluorine d) Lead
