

APRIL/MAY 2019

**MCH44A — ENVIRONMENTAL
CHEMISTRY**

Time : Three hours

Maximum : 75 marks

SECTION A — (5 × 6 = 30 marks)

Answer ALL questions.

1. (a) Classify different types of air pollutants and give atleast two examples each.

Or

- (b) What is COD? Explain the determination of COD.

2. (a) Write briefly about analysis and effect of oxides of sulphur and nitrogen.

Or

- (b) Discuss briefly about bio-chemical effects of cd and pb.

3. (a) What are effluents? Explain cyclonic separation method of controlling air pollution.

Or



- (b) How disinfection of polluted water is done
Write the chemical reactions involved in this process.

4. (a) What are the sources of Noise pollution?

Or

- (b) Discuss briefly about acoustic absorptive material in the noise control protection.
5. (a) What are ionizing radiations? Discuss any three man made sources of radioactive pollution.

Or

- (b) How the radioactive waste management should be done?

SECTION B — ($3 \times 15 = 45$ marks)

Answer any THREE questions.

6. Explain the following
- (a) Green house effect
 - (b) Ozone depletion and global warming
 - (c) Acid rain

7. Describe the following

- (a) Neutron activation analysis (8)
- (b) Effect of pesticide residues on life (7)

8. Write briefly about any three devices that control pollution.

9. Write briefly about the following

- (a) Decibel scale
- (b) Measurement of noise level
- (c) Noise control method in industrial plant

10. How will you classify radioactive waste? Write about the subductive waste disposal method.

