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**END SEMESTER (REGULAR/RETEST)  
EXAMINATION, NOVEMBER/DECEMBER – 2024**

Semester : 3rd

Subject Code : Me/Ch-301

**ENVIRONMENTAL EDUCATION**

Full Marks – 70

Time – Three hours

The figures in the margin indicate full marks  
for the questions.

**Instructions :**

- (i) Question Nos. 1, 2 and 3 are compulsory.
- (ii) Answer any *five* questions from Question Nos. 4 to 9.

1. Fill in the blanks :  $1 \times 5 = 5$

- (a) Electrostatic Precipitators are used to control \_\_\_\_\_ pollution.
- (b) COD stands for \_\_\_\_\_.
- (c) British Ecologist \_\_\_\_\_ coined the term Ecosystem.

[Turn over

(d) Safe limit of CO in air is \_\_\_\_\_ ppm.

(e) \_\_\_\_\_ is the most effective method to manage hospital waste.

2. Write True or False :  $1 \times 5 = 5$

- (a) MINAS stands for Minimal National Standards.
- (b) Dead plants part and animals remains are called Detritus.
- (c) Increase in level of  $\text{CO}_2$  in the atmosphere causes greenhouse effect.
- (d) Open Dumping is the best way of managing solid waste.
- (e) Industrial sewage is commonly known as Effluent.

3. Select the correct answers from the choices given below :  $1 \times 5 = 5$

- (a) Acid rain has a pH of less than
  - (i) 5.6
  - (ii) 6
  - (iii) 6.6
  - (iv) 7

- (b) Major pollutant in Paints and Dye industry is
  - (i) Nitrogen
  - (ii) Cadmium
  - (iii) Chromium
  - (iv) Lead
- (c) \_\_\_\_\_ is a secondary air pollutant.
  - (i) Smog
  - (ii)  $\text{SO}_2$
  - (iii)  $\text{CO}_2$
  - (iv)  $\text{NO}_2$
- (d) Noise pollution causes
  - (i) Hearing loss
  - (ii) Sleep disruption
  - (iii) Anxiety and Hyper tension
  - (iv) All of the above
- (e) Presence of soluble organics in polluted water causes \_\_\_\_\_.
  - (i) Depletion of  $\text{O}_2$
  - (ii) Fire Hazard
  - (iii) Explosion hazard
  - (iv) None of these.

4. (a) Define Biosphere. What are the different components of it ?  $2+3=5$

(b) Discuss about the population growth and industrialization and their impacts on the environment.  $6$

5. (a) Explain food chain and energy flow of an ecosystem.  $5$

(b) Discuss about any *one* of the following cycles with a neat diagram :  $6$

(i) Water Cycle

(ii) Carbon Cycle.

6. (a) Discuss the various effects of Water pollution.  $3$

(b) Discuss the role of MINAS in controlling environmental pollution.  $4$

(c) Mention some effects of Noise pollution on human health.  $4$

7. (a) Name two major air pollutants. Explain their harmful impacts on environment.  $6$

(b) State some sources of Radiation Pollution. What are the effects of radiation exposure on human health ?  $3+2=5$

8. (a) Explain the term "Environmental Management".  $4$

(b) What do you mean by Solid Waste Management ? Describe some suitable methods for their disposal.  $7$

9. Write short notes on any *two* :  $5.5 \times 2 = 11$

(a) Epidemiology

(b) Forest Conservation

(c) Pollution Control Strategies

(d) Occupational health hazards.