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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 : 1×5=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 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) SO_2

(iii) CO_2 (iv) 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 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* : 5.5×2=11
 - (a) Epidemiology
 - (b) Forest Conservation
 - (c) Pollution Control Strategies
 - (d) Occupational health hazards.