

**2024/TDC (CBCS)/EVEN/SEM/  
EESHCC-601T/151**

**TDC (CBCS) Even Semester Exam., 2024**

**ECOLOGY AND ENVIRONMENTAL SCIENCE**

**( 6th Semester )**

Course No. : EESHCC-601T

**( Environmental Pollution and Human Health )**

Full Marks : 50

Pass Marks : 20

Time : 3 hours

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

**UNIT—I**

**1. Answer any two of the following questions :**

**2×2=4**

- (a) Differentiate between primary and secondary pollutants with examples.
- (b) What factors determine air quality index?
- (c) Name some indoor air pollutants.

( 2 )

2. Answer any *one* of the following questions : 6

- (a) What is the main cause of smog? Give a detailed note on a case study of smog.  $2+4=6$
- (b) Write the full form of VOC. Discuss the impacts of  $\text{NO}_x$ ,  $\text{SO}_x$  and PM as air pollutants on human health.  $1+5=6$

## UNIT—II

3. Answer any *two* of the following questions :  $2 \times 2 = 4$ 

- (a) What are the main sources of ground-water pollution?
- (b) What chemicals are used in the effluent treatment plant?
- (c) Name two diseases caused by cadmium pollution.

4. Answer any *one* of the following questions : 6

- (a) What is eutrophication? Discuss the effects of arsenic, mercury and pesticides on human health.  $2+4=6$
- (b) Give a detailed note on the working principles of effluent treatment plants.

( 3 )

## UNIT—III

5. Answer any *two* of the following questions :  $2 \times 2 = 4$ 

- (a) What are the causes of soil degradation?
- (b) How do fertilizers cause soil pollution?
- (c) Name some contaminants that pollute soil.

6. Answer any *one* of the following questions : 6

- (a) Define soil pollution. Discuss the effects of soil pollution on vegetation and other life forms.  $2+4=6$
- (b) Give a detailed note on the control measure of soil pollution.

## UNIT—IV

7. Answer any *two* of the following questions :  $2 \times 2 = 4$ 

- (a) What is the effect of noise on wildlife?
- (b) What are the various sources of noise pollution?
- (c) What are the permissible limits of noise level for residential zone during day and night?

( 4 )

8. Answer any *one* of the following questions : 6

- (a) How is noise level measured? What are the impacts of noise pollution on the physical and mental health of human beings? 1+5=6
- (b) What is frequency of noise? Write a note on control measures of noise pollution. 2+4=6

UNIT—V

9. Answer any *two* of the following questions : 2×2=4

- (a) Which radioactive material causes bone and blood cancer?
- (b) How does thermal pollution affect the marine ecosystem?
- (c) Mention two natural sources of radioactive pollution.

10. Answer any *one* of the following questions : 6

- (a) What are the man-made sources of radioactive pollution? Discuss the somatic and genetic effects of radiation on human health. 2+4=6
- (b) What is thermal pollution? What are the sources of thermal pollution? Write a note on the effects of thermal pollution. 2+2+2=6

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