

Total No. of Questions : 6

Total No. of Printed Pages : 4

EI-182

B.E. (IIIrd Sem.) (CGPA) Civil Engg. Exam.-2015

## ENVIRONMENTAL ENGINEERING-I

Paper : CE-301

*Time Allowed : Three Hours*

*Maximum Marks : 60*

**Note :** Attempt all questions.

- .. All questions carrying equal marks.
- .. All parts of a question should be answered at one place.

Q.I Choose the correct answer— 2 each

- (i) Acid rain is formed due to contribution from the following pair of gases—
- (a) Methane and Ozone
  - (b) Oxygen and nitrous oxide ✓
  - (c) Methane and sulphur dioxide
  - (d) Carbondioxide and sulphur dioxide

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(2)

- (ii) Eutrophication of water bodies is caused by—  
(a) Discharge of toxic substances  
~~(b)~~ Excessive discharge of nutrients ✓  
(c) Excessive discharge of suspended solids  
(d) Excessive discharge of chlorides
- (iii) Concentration of  $\text{SO}_x$  in atmosphere can be controlled by—  
(a) Desulphurization  
(b) Use of low sulphur fuel  
~~(c)~~ Substitution by alternative fuels  
~~(d)~~ All of the above ✓
- (iv) According to WHO, the highest noise which a human can hear with discomfort is—  
(a) 40 dB  
(b) 60dB  
(c) 80dB ✓  
(d) 100dB
- (v) Maintenance of harmonious relationship between human beings and environment is the objective of—  
~~(a)~~ EIA  
(b) EPA ✓  
~~(c)~~ PLCA  
~~(d)~~ DFE

(3)

Q.II What is soil ? How soil formation takes place ? What is soil profile ? Write importance of soil to biosphere. 10

or

Write short note on any two of the following—2x 5

- (a) Biodiversity
- (b) Global warming
- (c) EL-nino phenomenon

Q.III What are the objectives of secondary waste water treatment ? Describe tricking filtration process for waste water treatment. 10

or

Write short note on any two of the following— 2x5

- (a) DO
- (b) Activated sludge process
- (c) Algal bloom

Q.IV Discuss the pollution caused by oxides of nitrogen and sulphur. 10

or

Discuss the effects of air pollution on— 10

- (a) Human health
- (b) Animals
- (c) Plants
- (d) Materials
- (e) Climate

(4)

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Q.V Discuss the impact of noise pollution on biotic and  
abiotic components. 10

or

Write short notes on any two of the following—2x5

- (a) Thermal waste
- (b) Disposal of solid waste
- (c) Agricultural waste

Q.VI Define ethics. Explain the importance of ethics in  
society. Discuss various ethical situations 10

or

Write short note on any two of the following— 2x5

- { (a) Goals of EIA
- (b) EPA
- (c) RA