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Total No. of Questions : 6

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EH-186

B.E. III Semester (CGPA)
Civil Engineering Exam. 2014

ENVIRONMENTAL ENGINEERING - I

Paper : CE-301

Time Allowed : Three Hours

Maximum Marks : 60

Note : Attempt all questions. Each carry equal marks.

Q.1. Choose the correct answer.

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- i) Particulate matters can be removed by
 - a) Sedimentation
 - b) Electrostatic precipitation.
 - c) Oxidation.
 - d) Reduction.
- ii) Temporary hardness of water causes
 - a) Sludge
 - b) Invisibility of atmosphere
 - c) freezing of water
 - d) melting of ice.

- iii) Dissolved Oxygen is an important quality parameter for
a) Cement
b) Water
c) Air
d) Lubricant.
- iv) Trickling filter is the water treatment of
a) Primary type
b) Secondary type
c) Tertiary type
d) Hexagonal
- v) The Intergovernmental Panel on Climate Change (IPCC) was formed in
a) 1988
b) 1967
c) 1986
d) 1978.

Q.2. a) What is soil pollution? Write the sources of soil pollution. 5

b) How does Biodiversity can lead the sustainability of Ecosystem? Explain. 5

Or

a) Write brief notes on EL-Nino and Eutrophication. 6
b) Discuss the impact of land use on environmental quality. 4

- Q.3. a) Justify the need of wastewater treatment. Explain the anaerobic treatment of waste water. 6
b) Write a note on Biological Oxygen demand. 4

Or

- a) Distinguish between lentic and lotic system . 4
b) Give brief account for inorganic water pollutants. 6

- Q.4. a) What is the principle of air sampling through absorption technique? Explain with sampling of SO_2 from air. 6
b) Distinguish between primary and secondary pollutants with example. 4

Or

- a) Comments on temperature inversion. 4
b) What do you understand by ELR and DALR? How environment condition can be influenced by this two. 6

- Q.5. a) What are the important control parameter for an optimum composting operation? Discuss with merits and demerits of composting. 6
b) Describe cause and effect of nuclear pollution. 4

Or

- a) How is sound measured? Suggest suitable acoustic absorptive material for various noise zone area. 5
b) What are the biological characteristic of solid waste and their suitable disposal method. 5

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- Q.6. a) What is the applicability and importance of environmental audit i.e EA. 5
- b) Write an informative notes on environmental protection Act, 1986. 5

Or

- a) Define EIA process with the help of flow chart. 6
- b) Comments on EIS. 4

