

Total No. of Questions : 6

Total No. of Printed Pages : 4

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.

10

- 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

(4)

UITians

- 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

