

EKS-320

B.E. III Semester (CGPA) Civil Engg. Examination 2017

ENV. ENGINEERING - I

Paper : CE-301

Time Allowed : Three Hours

Maximum Marks : 60

Note: Attempt all questions. Each question carry equal marks.

Q.1. Choose the correct answer : 5x2=10

i) Particulate matters can be removed by :

- a) Sedimentation
- b) Electrostatic precipitation
- c) Reduction
- d) Oxidation

ii) Trickling filter is the water treatment of :

- a) Primary type
- b) Secondary type
- c) Tertiary type
- d) Hexagonal

iii) PAN i.e. paraxyl nitrate is a :

- a) Air pollutant
- b) Water pollutant
- c) Noise pollutant
- d) Radioactive pollutant

iv) Government of India enacted the environmental (Protection) Act 1986, EPA check article :

- a) 255
- b) 258
- c) 253
- d) 256

v) The three primary soil nutrients are :

- a) Carbon, Oxygen, Hydrogen
- b) Copper, Cadmium, Carbon
- c) Potassium, Phosphorous, Nitrogen
- d) Boron, Zinc, Manganese

Q.2. a) Discuss how does Biodiversity can lead the sustainability of Ecosystem. 5

b) Explain EL-Nino effect and its impact on Ocean currents on global climate. 5

OR

a) What are the basic reasons for degeneration and erosion of fertile soil. 4

b) What are the significance of biogeochemical cycles in the environment. Illustrate Nitrogen cycle. 6

Q.3. a) Distinguish between lentic and lotic aqueous system. Comments on stratification of Nutrients and oxygen. 6

b) Differentiate between point and diffused source of water pollution with appropriate example. 4

(3)

OR

- a) Justify the need of waste water treatment. Explain the anaerobic treatment of waste water. 6
- b) Write short notes on : 4
 - i) Neutralization
 - ii) Chemical Oxygen demand

- Q.4.
- a) How NO_x and SO_x are precipitated out from atmosphere onto the earth. Explain with lime diagram. 6
 - b) Define ELR and DALR. How atmospheric conditions can be predicted by these two. 4

OR

- a) How global warming can adversely effect the environmental quality? What are the parameters causing global warming. 6
- b) The flow of temperature in the atmospheric varies with height. Explain with reference to lapse rate. 4

- Q.5.
- a) What are the important control parameter for optimum composting? What are the advantages of composting. 6
 - b) Comments on Nuclear pollution. 4

OR

- a) What are the characteristics of medical waste? Discuss suitable disposal method for it. 6
- b) What are Acoustic Enclosure? How they help to control noise pollution? 4

(4)

- Q.6.
- a) What is the role of environmental Audit with reference to quality assurance? Give the complete flow chart. 6
 - b) Write an informative note on environmental protection act 1986. 4

OR

- a) What do you understand by IEE? Write the content of IEE i.e. Initial Environmental examination. 5
- b) EIA is an intrinsic link between economic growth and environment. Justify the statement. 5

