Total No. of Questions: 6

Total No. of Printed Pages: 4

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:

5×2=10

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- 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
- Radioactive pollutant

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(2)

- N) 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
 -) Copper, Cadmium, Carbon
 - e) Potassium, Phosphorous, Nitrogen
 - d) Boron, Zinc, Manganese
- Q.2. a) Discuss how does Biodiversity can lead the sustainability of Ecosystem.
 - b) Explain EL-Nino effect and its impact on Ocean currents on global climate.

OR

- What are the basic reasons for degeneration and erosion of fertile soil.
- b) What are the significance of biogeochemical cycles in the environment. Illustrate Nitrogen cycle.
- Q.3. a) Distinguish between lentic and lotic aqueous system. Comments on stratification of Nutrients and oxygen. 6
 - Differentiate between point and diffused source of water pollution with appropriate example.

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EKS-320

Contd....

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(3)

OR

- Justify the need of waste water treatment. Explain the anaerobic treatment of waste water.
- Write short notes on:

4

- Neutralization
- Chemical Oxygen demand
- How NO_x and SO_x are precipitated out from atmosphere onto the earth. Explain with lime diagram.
 - Define ELR and DALR. How atmospheric conditions can be predicted by these two.

OR

- How global norming can adversely effect the environmental quality? What are the parameters causing global warming.
- The flow of temperature in the atmospheric varies with height. Explain with reference to lapse rate.
- What are the important control parameter for optimum Q.5. a) composting? What are the advantages of composting.
 - Comments on Nuclear pollution.

OR

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

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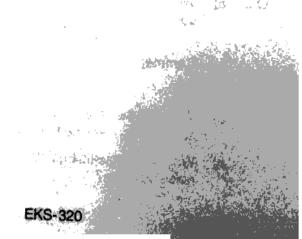
(4)

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

OR

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





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