

70035

Name : .....

Reg. No: .....

**EIGHTH SEMESTER B.TECH (09 Scheme) DEGREE SUPPLEMENTARY EXAMINATION,  
NOVEMBER 2014**

**CE 09 801 - ENVIRONMENTAL ENGINEERING - II**

**Time : Three Hours**

**Maximum : 70 Marks**

**Part A**

- I.
- What are traps in probing?
  - What is the use of grease traps in skimming tank?
  - What type of bacteria involved in septic tank? What are the final products?
  - What is the use of manholes?
  - Define smog. What are the compositions of smog?

5 x 2 = 10 Marks

**Part B**

- II.
- Discuss the function of drop manholes in sewage flow.
  - How is the quantity of storm sewage from a town estimated while designing a drainage scheme for the same?
  - Differentiate between
    - Vent pipe and anti-siphonage
    - Sewage and sullage
  - What are the causes of air pollution?
  - Sketch and explain the working of a standard filter for purification of sewage.
  - What is reuse and recycle of municipal solid waste? How the reuse concept applied to municipal solid waste?

4x 5 = 20 Marks

**Part C**

- III.
- (i) What is dry weather flow? On what factor does it depend? How sewage flow fluctuates during 24 hours period? .. 10
- Or
- (i) Explain the necessity of providing sewer appurtenances on the sewer line.  
(ii) Explain with sketch the working of any sewer appurtenance that are usually provided on any sewer line.

Or

**Turn over**

IV. a. What are the physic-chemical characteristics of sewage water decides the treatment of wastewater?

Or

b. What are function of oxidation pond in wastewater treatment? What are the advantages and disadvantages?

V. a. How assimilation capacity of stream is decided?

Or

b. What are the sludge management techniques? Why sludge conditioning necessary?

VI. a. How collection of solid waste is carried out in any municipal corporation? Explain any one method of solid waste management system.

Or

b. i) What are the types of air pollutants in atmosphere and their sources ..5

ii) What is the legal responsibility in control of air pollution .. 5

(4 x 10 = 40 Marks)

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