

27092

Name :

Reg. No:

EIGHTH SEMESTER B.TECH (ENGINEERING) DEGREE EXAMINATION, MAY 2012

**CE 04 803 – ENVIRONMENTAL ENGINEERING – II
(2004 Admissions)**

Time : Three Hours

Maximum : 100 Marks

PART - A

Answer all questions

- I (a) Explain the classification and sources of air pollutants
(b) What is the function of trap and list out the requirements of good trap?
(c) Write a note on sludge conditioning. Why elutriation is necessary before chemical conditioning?
(d) Explain the plumbing systems of house drainage with neat sketch.
(e) Explain vaccum filtration method of dewatering sludge.
(f) Differentiate clearly between an inlet and a catch basin.
(g) Discuss the comparative merits and demerits of separate system and combined system.
(h) Explain the mechanism of purification in facultative ponds.

(8×5 = 40)

PART - B

- II (a) Why dewatering of sludge is necessary ? Explain the methods of dewatering the sludge on sludge drying beds with neat sketch.
Or
(b) Discuss the methods of disposal of septic tank effluent in detail with neat sketch.
- III (a) Draw the schematic diagram of a wastewater treatment facility providing primary and secondary treatment. Indicate the purpose of different units.
Or
(b) Explain in detail the operational troubles and preventive measures encountered in a Activated sludge process.
- IV (a) Explain the composting process and anaerobic processing of solid waste in detail.
Or
(b) Briefly explain the methods of controlling air pollutant emissions at the source.
- V (a) Describe in brief various types of water carriage system, stating advantages and disadvantages of each system.
Or
(b) Write a note on (i) testing of sewers (ii) ventilation of sewers.

(4×15 = 60)
