

IV B.Tech I Semester Supplementary Examinations, April/May 2005
ENVIRONMENTAL ENGINEERING
(Chemical Engineering)

Time: 3 hours

Max Marks: 70

Answer any FIVE Questions
All Questions carry equal marks

1. Discuss the effects of oil discharge into streams.
2. (a) Define BOD and COD.
(b) Write the difference between BOD and COD.
(c) How COD test is carried out.
3. (a) Explain adiabatic lapse rate?
(b) Explain the atmospheric circulation pattern when dust domes occur?
(c) Describe briefly the pollutant -wind correlation?
4. (a) Explain the collection mechanisms of particulate in a wet scrubber. What are the advantages and disadvantages of scrubbers.
(b) Discuss fabric filters.
5. Describe the removal of NO_x by una scrubbing with a neat diagram.
6. (a) Describe characteristics of a typical fertilizer plant effluent.
(b) Explain the recovery of carbon from an anumonia plant effluent.
7. Explain the necessity of a secondary settling tank in an aerobic treatment system with examples.
8. (a) Enlist applications of reverse osmosis method for pollution abatement.
(b) What are the objectives of tertiary treatment?
