B. Tech.

(SEM. VI & IV) EXAMINATION, 2006-07

ENVIRONMENTAL MANAGEMENT

Time : 3 Hours] [Total Marks : 100

Note : (i) Attempt all questions.
      (ii) All questions carry equal marks.

1. Attempt any two parts of the following:
   (a) Discuss the objectives of an Environmental management programme. How these objectives can be successfully accomplished?
   (b) Discuss the importance of worldwide cooperation in improving the quality of environment.
   (c) What remedial measures are needed in Indian Context to protect environment? What is present status?

2. Attempt any two parts of the following:
   (a) Define solid wastes. Discuss the types of solid wastes and their sources.
   (b) Discuss incineration method for disposal of solid wastes.
   (c) Discuss the problems associated with collection, transfer and transportation of solid wastes.

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3. Attempt any four parts of the following:-
   (a) Discuss the sources and impact of biodegradable organics in water.
   (b) What is an “Efluent Limited Stream”?  
   (c) What is an Indicator Organism? 
   (d) Explain the basic concept of activated sludge process.
   (e) Write a short note on upflow anaerobic sludge Blanket reactor. 
   (f) How nitrogen is biologically removed from waste waters?

4. Attempt any four parts of the following :-
   (a) Discuss the common effects of air pollution on human beings.
   (b) Write short note on lofting.
   (c) Explain the working of a gravitational settling chamber.
   (d) Discuss advantages and disadvantages of wet collectors over dry collectors for particulars control.
   (e) Explain the adsorption method for control of gaseous pollutants.

5. Attempt any two of the following :-
   (a) What are advantages of using Air Pollution Index (API) ? 
   (b) Write short note on Air Quality Standards.
   (c) Discuss the policies and legislations on environmental protection and pollution control in India.