

R07

Code: R7410104

B.Tech IV Year I Semester (R07) Supplementary Examinations, May 2013

ENVIRONMENTAL ENGINEERING - II

(Civil Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE questions
All questions carry equal marks

1. (a) Name chief sources of air pollutions. What is photochemical smog? How it is formed? Explain.
(b) Write explanatory note on "Green house effect".
2. Explain the terms particulate and gaseous emission. What are different dust collection devices? Explain with sketches fabric filters and electro static precipitators.
3. Write explanatory notes on the following:
 - (a) Reverse osmosis.
 - (b) Ion exchange.
4. (a) Why it is necessary to remove nitrogen from the secondary plant effluents? Enumerate different methods used for this and describe ammonia stripping method.
(b) Write a note on "removal of phosphates".
5. Explain briefly various techniques and methods used to recover materials, conversion products and energy from solid wastes.
6. (a) Explain important factors that must be considered in design and operation of a sanitary landfill.
(b) With a neat sketch, explain the functions of various components in an incinerator.
7. Discuss various categories of hazardous wastes and explain the difficulties involved in their disposal.
8. (a) Write a note on noise levels and their specified Indian standards.
(b) Explain various methods of control of noise pollution.
