Code: 9A01704 **SS**

B.Tech IV Year I Semester (R13) Supplementary Examinations June 2017

ENVIRONMENTAL ENGINEERING - II

(Civil Engineering)

Time: 3 hours Max. Marks: 70

Answer any FIVE questions

All questions carry equal marks

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1 (a) Explain the causes of air pollution with anyone familiar case study.
(b) Describe the various impacts of air pollution on different zones of the atmosphere.

2 With a rough sketch, elaborate about electrostatic precipitator.

3 (a) Why fluorides must be removed from the drinking water? Explain any two methods of fluoride removal.
(b) Brief note on zeolite resin and its uses.

4 (a) Differentiate between neutralization and equalization tank.
(b) Explain about two stages of nitrification process.

5 (a) Discuss about 'recycling and reuse' in the disposal of solid waste. In household wastes, list some of the items in each case.
(b) Brief note on the status of collection and transportation of municipal solid waste in your locality.

6 (a) Enumerate the various methods which can be used for the disposal of municipal solid waste management. Explain any two of them.
(b) Mention the most significance property of the city refuse which guides the adoption of each of the following methods of refuse disposal:
(i) Vermi composting.
(ii) Incineration.

7 (a) How is radioactive waste generated in the of nuclear power plants? Describe its health effects and preventive measures.
(b) As an environmental engineer, suggest some methods which can use for safe disposal of hazardous solid and liquid waste from hospitals and nursing homes in your locality.

8 (a) Define 'noise' and explain as to how and why it should be regarded as an environmental pollutant.
(b) Differentiate between L_n, L_{eq} and L_{dn} in relation to expression of sound levels.

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