

11. What do you understand by Environmental Audit? Give checklist of activities for an environmental audit work.
12. What are the internal and external objectives of an Environmental Management System (EMS) Explain each point reference to ISO 14001-2004.

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Printed Pages: 4

130

ECE 034

(Following Paper ID and Roll No. to be filled in your Answer Book)

Paper ID : 100754

Roll No.

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B.Tech

(SEM. VII) THEORY EXAMINATION, 2015-16

INDUSTRIAL POLLUTION CONTROL & ENV. AUDIT

[Time:3 hours]

[Total Marks:100]

SECTION-A

Note : Attempt all parts. All parts carry equal marks. Write answer of each part in short. (2×10=20)

- (a) What are the basic properties of industrial waste?
- (b) How would you estimate demand of water for an industry?
- (c) Mention the name of industries which require high quantity of water.
- (d) What are the main steps which must be taken to reduce water consumption?

- (e) What do you understand by e-waste?
- (f) What are the risks with hazardous waste?
- (g) What is greenbelt development?
- (h) Mention the effect of radiation emission on human being.
- (i) Define absorption and physical adsorption.
- (j) What do you understand by neutralization?

SECTION-B

Attempt **any five** questions from this section. (10×5=50)

Draw a neat sketch of an Oil/Grease Trap and discuss its functioning in detail.

What are the two commonly used systems for biological waste treatment? Explain them.

What do you understand by Zero Discharge System? Draw a flow diagram to attain the same for an industry.

Explain DuPonts powered activated carbon process in detail.

- 6. What is landfill? Which type of waste should be disposed off into a landfill as per solid waste management rule(2000)? Which are main pathways involved for environmental contamination?
- 7. Discuss the effects of noise pollution. What are the different methods of control it? Discuss each one in detail.
- 8. What is Life Cycle Analysis(LCA)? Discuss various steps involved in a LCA study.
- 9. Give the typical values parameters of effluent from a sugar mill. Draw a flow diagram for the treatment of same. Also give some detail of each unit shown in flow diagram.

SECTION-C

Attempt **any two** questions from this section. (15×2=30)

- 10. Write short notes on:
 - (i) Environment Protection Act
 - (ii) Forest Conservation Act