

Printed Pages : 2



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) (ODD SEM.) THEORY

EXAMINATION, 2014-15

INDUSTRIAL POLLUTION CONTROL AND ENVIRONMENTAL AUDIT

Time : 3 Hours]

[Total Marks : 100

1 Attempt any FOUR questions : **4×5=20**

- (a) Mention name of industries which requires high quantity of water.
- (b) Explain the e-waste and give its impact on environment.
- (c) Describe some physical parameters of water with its environmental significance.
- (d) Give the effect of radiation emission on human being.
- (e) Discuss the different waste minimization technique.
- (f) What are different types of solid wastes ?

2 Attempt any FOUR questions : **4×5=20**

- (a) Discuss the zero discharge concept regarding industries.

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[Contd...

- (b) Explain the dewatering of sludge.
 - (c) What are the impact of noise pollution on human being ?
 - (d) Describe the methods by which heavy metal is removed from water.
 - (e) Explain the biodegradable and non-biodegradable organics present in water.
 - (f) What are isotherms ? Give some features of Langmuir isotherm.
- 3** Attempt any TWO parts : **10×2=20**
- (a) Discuss the different steps of solid waste management with its limitations.
 - (b) What are the sources of radiation pollution ? Discuss its effect and control measures.
 - (c) Draw a neat and clean diagram of gravity settling chamber (GST) and discuss its merits and demerits.
- 4** Attempt any TWO parts : **10×2=20**
- (a) What is life cycle analysis (LCA) ? Discuss the environmental impact of lead battery using LCA.
 - (b) Explain the effluent treatment process of dairy industry.
 - (c) Discuss about the recent trends in industrial waste management.
- 5** Attempt any TWO parts : **10×2=20**
- (a) Discuss the legislation related to water quality in India.
 - (b) Define environmental impact assessment (EIA) and explain its types. What are different steps involved in EIA.
 - (c) Write short note on :
 - (i) ISO-14001-2004
 - (ii) Environmental Protection act-1986