

ASSIGNMENT NO:2
B.TECH (CHEMICAL ENGG), 7TH SEM,

COURSE: B.TECH (CHEMICAL ENGG), 7TH SEM, AIR POLLUTION AND CONTROL EQUIPMENTSECHE-473

ASSIGNMENT NO:2

Due date of submission: 10.11.2016

Instructions

1. Write the response to the assignment in your own handwriting.
2. Submit the response to your HOD within the due dates
3. Write your name, programmed and enrolment No. clearly at top of the page.

Q1)

- a) What are the air pollution laws and national standard?
- b) Explain acid rain with proper diagram?

Q.2)

- A) Explain gravity settling method?
- B) Explain the role of APC technique in coal fired thermal power plant?

COURSE: B.TECH (CHEMICAL ENGG), 7TH SEM., PROCESS MODELLING AND SIMULATION, ECHE-472

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Q1)

- a) Differentiate between simple and rigorous model?
- b) Differentiate between lumped parameter and distributed parameter.

Q.2)

- A) Differentiate between steady and unsteady model.

- B) Design a mathematical model for batch reactor.

COURSE: B.TECH (CHEMICAL ENGG), 7TH SEM, INDUSTRIAL SAFETY AND HAZARD MANAGEMENT, ECHE-471

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Q1)

- a. What is the government policy on safety hazards identification?
- b. Write the principles of industrial safety management.

Q.2

- a) What are the health and safety provisions under the factories act?
- b) What improvement in working conditions is to be done for industrial safety?

COURSE: B.TECH (CHEMICAL ENGG), 7TH SEM, NON CONVENTIONAL ENERGY RESOURCES ECHE-475

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Q1)

- a) What are ocean thermal energy resources?
- b) What is performance and limitations of fuel cells?

Q.2)

- a) Explain solar cell power plant with its limitation.
- b) Make classification of rotors.

COURSE: B.TECH (CHEMICAL ENGG), 7TH SEM, PLANT DESIGN AND ECONOMICS, ECHE-474

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Q1)

- a. Explain taxes and insurances view for a product.
- b. Give guideline for capital cost, start-up costs of a plant.

Q.2)

- A) Give procedure for estimation of total product costs.
- b) What do you mean by depreciation and investment analysis?