

ASSIGNMENT
B.TECH (CHEMICAL ENGG), 7TH SEM.,

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

ASSIGNMENT NO:1

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) Define air pollution. Define smog electrostatic precipitators?
- b) What are Fibrous filters and the sources of air pollution?

Q.2)

- a) Define sound pressure and Noise pollution.
- b) What are the effects of air pollution? What is the Air sampling?

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

ASSIGNMENT NO:1

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Q1)

- A) Discuss briefly process modelling and simulation technique?
- B) What are continuity equations and energy equation?

Q.2)

- A) What are the applications of process models?
- B) Design a mathematical model for CSTR?

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

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Q1)

- a) What are the health Hazards due to radiation.
- b) What are the health hazards due to excess of noise and vibrations?

Q.2)

- a) Describe plant layout and safety considerations in plant layout.
- b) What is industrial toxicology? What are the effects of toxic substances on human system?

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Q1)

- a) Define conventional energy resources . What is advantage of non conventional energy resources?
- b) Define thermo electric conversion principle. Define solar thermal energy.

Q.2)

- a) Define geothermal energy. What is solar heating element?
- b) Define wind energy. What is biogas?

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

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Q1)

- a) What are different steps of process selection?
- b) What is material and energy balance of process.

Q2)

- a). What are selection and specification of plant.
- b) Give guide line for start up and shutdown of plant.