

ASSIGNMENT NO:2 ,
B.TECH (CHEMICAL ENGG), 3TH SEM

COURSE: B.TECH (CHEMICAL ENGG), 3TH SEM , **MECHANICAL OPERATION ECHE-232**

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). Explain batch and continuous weighing techniques.
- b) Explain belt, screw and bucket conveyer for transportation of material?

Q.2)

- a). Discuss the size reduction methods with principles?
- b). Explain gyratory crushers with proper diagram?

COURSE: B.TECH (CHEMICAL ENGG), 3TH SEM, FLUID MECHANICS, (EFM-233)

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.

Q.1)

- (a) Define steady and unsteady flow
- (b) Describe flow nozzle along with advantages and limitations.

Q.2)

- (a) Describe rotameter along with advantages and limitations.
- (b) Describe venturi flow meter along with advantages and limitations.

COURSE: B.TECH (CHEMICAL ENGG), 3TH SEM, -CHEMICAL PROCESS CALCULATIONS,
(ECHE-231)

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.

Q.1

(a) 20 gm of caustic soda are dissolved in water to prepare 500 ml of solution .Find the normality and molarity of solution.

(b) Derive ideal gas law.

Q.2

(A) Calculate the volume occupied by 20 kg of chlorine gas at a pressure of 100 kPa and 298 k.

(b) Define the terms: (i) Humidity (ii) Relative Humidity (iii) percent saturation (iv) dew point (v) wet bulb temperature.

COURSE: B.TECH (CHEMICAL ENGG), 3TH SEM.INDUSTRIAL CHEMISTRY, ECHE-234

Last date of Submission-06/11/2016

ASSIGNMENT NO:2

Instruction

- 1) Write the responses to the assignment in your own handwriting.
- 2) Submit the responses to your HOD within the due date.
- 3) Write your name, program and Enrollment nu clearly at the top of the page.

Q1.

- a) What are Reimer-Tiemann reaction
- b) Define the energy level of n-molecular orbitals.

Q2

- a) What is aromatic and non-aromatic compounds with example
- b) What is annulenes give the Suitable Example

ENGINEERING MATHEMATICS-III

Assignment No-2

Date of submission: -10 NOV, 2016

Instructions

- a) Write the response to the assignment in your own handwriting.
- b) Submit the response to your HoD within the due date.
- c) Write your name, Programme and Enrolment No. clearly at the top of the page.

Q.1

a) Prove $\Delta \nabla = \Delta - \nabla$

b) find the root of $(17)^{\frac{1}{3}}$ correct upto three decimal places

Q.2

- a) If θ be the acute angle between to the two regression lines in the case of two variable x and y. Show that

$$\tan \theta = \frac{1-r^2}{r} \frac{\sigma_x \sigma_y}{\sigma_x^2 + \sigma_y^2}$$

- b) A sample of 100 dry cells tested to find the length of life produced the following results: $\bar{x} = 12$ hours, $\sigma = 3$ hours

Assuming the data to be normally distributed, what percentage of battery cells are expected to have life-

- (i) More than 15 hours
- (ii) Less than 6 hours
- (iii) Between 10 and 14 hours?

Course: Industrial Sociology

Program: B.Tech III Sem (All Branch)

Submission Date: 05 November 2016

Assignment No: 2

Q1.

- (a) Define Indian Industrial Policy 1948.
- (b) Describe 1956 Industrial Policy Resolution.

Q2.

- (a) Describe Grievance Handling Procedure.
- (b) Explain Bipartite and Tripartite Agreement.