ASSIGNMENT NO:1, DIPLOMA (CHEMICAL ENGG) , V SEM

COURSE: DIPLOMA (CHEMICAL ENGG) , V SEM , CHEMICAL REACTION ENGG, DCHE-353

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 activation energy and what is batch reactor?

b) What is relation between concentration and fractional conversion of any reactant A.?

Q.2)

a) Define rate constant and Define rate law of a reaction.

b) Define space time, space velocity and Holding time.

COURSE: DIPLOMA (CHEMICAL ENGG) , V SEM , AUTOMATIC PROCESS CONTROL, DCHE-354

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Q.1)

a) What is Automatic control? And what is step function?

b) Define impulse and Define Laplace transformation

Q.2)

a) Define sinusoidal function and what are Process variables?

b) What is process degree of freedom and Define following terms -ramp

COURSE: DIPLOMA (CHEMICAL ENGG) , V SEM , MASS TRANSFER OPERATIONS,DCHE-352

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Q.1

a) Define flooding, Humidity and Percentage humidity.

b) Write short note on H.T.U. and H.E.T.P.

Q.2

a) Define Relative humidity, humid volume and channelling.

b) Define drying process.

COURSE: DIPLOMA (CHEMICAL ENGG) , Vth SEM , FUEL AND MATERIAL TECHNOLOGY ,DCHE-351

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Q.1

a) Write short note on Natural Gas, LPG and Viscosity.

b) Define Flash & fire Point and Octane no.

Q.2

a) Write down Advantages and disadvantages of gaseous fuels.

b) What is disadvantage of corrosion and define tarnishing and fogging.