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SEAT No. :

P281

[Total No. of Pages : 1

BE/INSEM/APR-608

B.E. (Chemical)

409349 : PROCESS MODELING & SIMULATION

(2015 Pattern) (Semester - II)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) Answer any 3 questions.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Assume suitable data, if necessary.
- 4) Use of logarithmic tables slide rule, Mollier charts, electronic pocket calculator and steam tables is permitted.

Q1) Draw the flowchart of a systematic approach to process modeling. [10]

OR

Q2) Discuss the classification of models with proper examples. [10]

Q3) Develop a model for Flow through Fluidised Bed. [10]

OR

Q4) a) Discuss the continuity equation. [5]

b) Discuss the Flow of Film on the outside of circular tube. [5]

Q5) Develop mathematical model of Multiple effect evaporator. [10]

OR

Q6) Develop a model for Shell & Tube Heat Exchanger. [10]

