

Total No. of Questions :6]

SEAT No. :

P271

[Total No. of Pages :2

Oct./BE/ Insem. - 589

B.E. (Chemical Engineering)

CHEMICAL PROCESS SYNTHESIS

(2015 Course) (Semester - I) (Elective - II) (409345A)

Time : 1 Hour]

[Max. Marks :30

Instructions to the candidates:

- 1) *Answer three questions.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right side indicate full marks.*
- 4) *Use of logarithmic tables, electronic pocket calculator and steam tables is allowed.*
- 5) *Assume suitable data, if necessary.*

Q1) a) Discuss Approaches to process design. **[5]**

b) Write short on "Onion Model". **[5]**

OR

Q2) a) Write short note on different reaction path. **[5]**

b) Explain the role of Catalyst in Choice reactors. **[5]**

Q3) Explain the effect of following parameters on choice of reactor: **[10]**

a) Temperature.

b) Pressure.

OR

Q4) Explain different types of Reaction System. **[10]**

P.T.O.

Q5) Discuss in detail separation of Homogeneous mixtures. [10]

OR

Q6) Write notes on: [10]

- a) Drying.
- b) Scrubbing.

