

Total No. of Questions : 6]

SEAT No. :

P274

Oct./BE/Insem.-592

[Total No. of Pages : 1

B.E. (Chemical Engineering)

ADVANCE SEPARATION PROCESSES

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

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) *Answer Q1 or Q2, Q3 or Q4, Q5 or Q6.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right side indicate full marks.*
- 4) *Assume suitable data if necessary.*

Q1) Explain the concept of K-value and its application in design of multi component Distillation process. **[10]**

OR

Q2) Explain the working principle of azeotropic distillation process in detail. **[10]**

Q3) Explain the principle, Working and applications of Extractive distillation using typical Schematic Diagram **[10]**

OR

Q4) a) Differentiate between homogeneous and heterogeneous azeotropic distillation technique. **[5]**

b) Describe the residue curve map for Azeotropic distillation. **[5]**

Q5) Explain the separation based on the reversible chemical complexation in detail. **[10]**

OR

Q6) Explain the principle, Working and application of Reactive extraction using schematic diagram. **[10]**

