

IV B.Tech I Semester Supplementary Examinations, April/May 2005
MEMBRANE TECHNOLOGY
(Chemical Engineering)

Time: 3 hours

Max Marks: 70

Answer any FIVE Questions
All Questions carry equal marks

1. Explain the common features of all the membrane processes.
2. Write the applications of Ultra filtration.
3. Explain the method of preparation of porous membranes by sintering process.
4. What are the characteristics of liquid membranes?
5. What are the different flow patterns employed in continuous dialysers, Explain with the help of a neat sketch.
6. (a) What is the difference between brackish water and sea water?
(b) What is pretreatment required for sea water to be treated by electro dialysis?
(c) Explain the conventional methods that could be employed for the treatment of sea water.
7. Discuss on the basic concepts in membrane separations like membrane porosity, solution diffusion, P and the separation factor.
8. Write the applications of gas permeation.
