

CHEMICAL REACTION ENGINEERING II
(BE CHEMICAL WITH MBA 4th Year)

Attempt all questions

Time: 1hr
M Marks:25

1. Discuss the working and design of packed bed reactor used for solid catalysed reactions. (8)
2. Discuss Weisz-Prater and Mears Criterion for internal and external diffusion in solid catalysed reactions. (5)
3. Differentiate between sintering and coking methods of catalyst deactivation (3)
4. For solid catalysts write briefly about method used for measurement of the surface area (6)
5. Discuss Random pore model for evaluation of effective diffusivity in catalyst. (3)