

Semester-VI, B.Sc. (Industrial Chemistry) Examination

March - 2015
Paper- IC-601: Fundamental Chemical Engineering - II
Paper Code: 4649

Time: 2.30 Hours

Total Marks: 70

- Que.1 (A) Explain types of flow pattern with example. 10
(B) State and explain Newton's law of Viscosity 04
OR
- Que.1 (A) Draw schematic sketch of Hildebrandt extractor & explain its working. 10
(B) Explain properties of solid. 04
- Que.2 (A) Write a brief note on Jaw Crusher with neat sketch. 04
(B) Explain application of Vacuum pump. 10
OR
- Que.2 (A) Explain mechanism of extraction with mass transfer equation. 10
(B) Explain leaching with example. 04
- Que.3 (A) Define Centrifuge pump & discuss its principle, construction and working. 10
(B) State usefulness of Reciprocating pump. 04
OR
- Que.3 (A) Write a short note on Centrifugal fan with sketch. 10
(B) Why size reduction is necessary? 04
- Que.4 (A) Write a short note on Propeller fan with sketch. 10
(B) Why pipe fitting is necessary? 04
OR
- Que.4 (A) Write a brief note on Hammer mill with neat sketch. 10
(B) Classify heat exchanger with example. 04
- Que.5 (A) Write a note on Shell & Tube type Heat Exchanger. 10
(B) What is LMTD? Explain. 04
OR
- Que.5 (A) What is blower? Explain it with neat sketch. 10
(B) Give uses of Rotary Crusher. 04