

**Semester-III, M.Sc. (Industrial Chemistry) Examination**

**October / November - 2015**

**Paper- IC- 11: Unit operations & Unit processes – II**

**Subject Code: 3568**

Time: 2.30 Hours

Total Marks: 70

- Que.-1 Write a note on any two. 14  
(1) Filter press (3) Try dryer  
(2) Bag filter (4) Spray dryer
- Que.-2 Write a note on any two. 14  
(1) RDC (3) Packed tower distillation  
(2) Spray column (4) Packed column extractor
- Que.-3 Explain mechanism of Nitration. Give industrial production of picric acid. 14  
OR
- Que.-3 What is oxidative reaction? Classify it with example. Give manufacture of acetic acid with flow sheet diagram. 14
- Que.-4 What do you mean by reduction? Explain it with example and also explain industrial production of aniline. 14  
OR
- Que.-4 Discuss esterification of organic acid with example. Give manufacture of ethyl acetate with flow sheet diagram. 14
- Que.-5 Define mixing with example. Explain construction, working and application of muller mill. 14  
OR
- Que.-5 How mechanical separation is used in industries? Describe Cone classifiers with neat sketch. 14