

PARUL UNIVERSITY
FACULTY OF PHARMACY
B.Pharm. Winter 2018-19 Examination

Semester: 2
Subject Code: 08101152
Subject Name: Unit Operation-II

Date: 04/12/2018
Time: 2:00 pm to 5:00 pm
Total Marks: 75

Instructions:

1. Figures to the right indicate full marks.
2. Make suitable assumptions wherever necessary.

Q.1 Essay type Questions. (Any 2 out of 3) (10 marks each) (20)

1. Write a detailed note on significance of filtration process in pharmacy.
2. Write a detailed note on centrifugation process and its role in pharmacy.
3. With suitable diagram explain the construction and working of tray dryer.

Q.2 Short Essay type Questions. (Any 7 out of 9) (5 marks each) (35)

1. What is dehumidification? Explain how dehumidification is important for pharmacy.
2. Write a detailed note on steam distillation.
3. With suitable diagram explain film evaporators.
4. Write a note on drum dryer.
5. Write a note on sedimentation type centrifuge
6. Write a detailed note on membrane filters.
7. Explain the importance of humidification and dehumidification in pharmacy
8. Explain construction and working of general distillator.
9. Write a note on multiple effect evaporators.

Q.3 Answer in short. (2 marks each) (20)

1. Define dehumidification.
2. Write the application of coolant in dehumidification.
3. Name various types of refrigeration cycles.
4. What is Azeotropic mixture?
5. List out applications of fluidized bed dryer.
6. What is filter media?
7. Write applications of leaf filter.
8. Write applications of infrared dryer.
9. Define moisture content.
10. What is Henry's law?