

Code No: PHR16221

R16**SET - 1****II B. Pharmacy II Semester Supplementary Examinations, Nov - 2018**
PHARMACEUTICAL UNIT OPERATIONS-II

Time: 3 hours

Max. Marks: 70

Note: 1. Question Paper consists of two parts (**Part-A** and **Part-B**)
2. Answering the question in **Part-A** is Compulsory
3. Answer any **FOUR** Questions from **Part-B**

PART -A

1. a) Define conduction and convection. (2M)
- b) What is phase equilibrium? (2M)
- c) Write the differences between Azeotropic and Extractive distillation. (2M)
- d) Write the principle involved in spray dryer and its applications. (2M)
- e) Write theories of size reduction. (2M)
- f) Write the importance of solid mixing with suitable examples. (2M)
- g) Write about importance of fractionating columns in distillation. (2M)

PART -B

2. a) Write about fined tube heat exchanger and its applications. (7M)
- b) Explain in detail about heat transfer by Radiation with examples. (7M)
3. Write principle, working and applications of Multiple effect evaporators. (14M)
4. a) Write principle, procedure and applications of Rectification. (7M)
- b) Write principle and working of Flash distillation. (7M)
5. Describe principle, construction and working involved in Fluidised bed dryer. (14M)
6. Describe construction, working and applications of Fluid energy mill. (14M)
7. a) Explain steps involved in solid-solid mixing process. (7M)
- b) Write principle, construction and working of planetary mixer. (7M)