

QP Code: 324006

Reg. No.....

**Third Semester B. Pharm Degree Regular/Supplementary
Examinations June 2024**

Pharmaceutical Engineering

(2017 Scheme)

Time: 3 Hours

Max. Marks: 75

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

Essays

(2x10=20)

1. Explain the principle, construction and working of super centrifuge.
2. Explain the principle, construction, working and applications of freeze dryer with a neat labelled diagram.

Short Notes

(7x5=35)

3. Explain the application and mechanism of drying process
4. Explain the principle and working of Fluid energy mill.
5. Discuss the construction of air separator with a diagram
6. Explain Reynolds number and its significance.
7. Types of corrosion and its prevention.
8. Explain the working of apparatus used in simple distillation process
9. Describe the principle and construction of climbing film evaporator

Answer Briefly

(10x2=20)

10. Labelled diagram of orifice meter.
11. Mechanism of size separation.
12. Factors affecting mixing.
13. Differentiate between evaporation and distillation.
14. Flash Distillation.
15. Factors affecting filtration.
16. Types of fractionating column.
17. Pneumatic conveyors.
18. Seidtz filter.
19. Propellers.
