

QP Code: 324006

Reg. No.....

**Third Semester B. Pharm Degree Regular/Supplementary
Examinations May 2025
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, working, construction, uses, merits and demerits of Ball mill
2. Define corrosion. Explain the factors influencing corrosion. Write briefly on theories of corrosion.

Short Notes

(7x5=35)

3. State Bernoulli's theorem and write its applications
4. Illustrate about Differential manometer with a neat diagram
5. Differentiate between distillation and other heat process
6. Explain the principle and working of climbing film evaporator
7. Explain the principle, working and construction of spray dryer
8. Compare the working between Twin shell blender and Double cone blender.
9. Relate the process of filter leaf and with its mechanism

Answer Briefly

(10x2=20)

10. List out the objectives of Centrifugation
11. Explain the importance of stainless steel in pharmaceutical industry
12. Write the principle and working of forced circulation evaporator
13. Differentiate the mechanism of solid and liquid mixing
14. Discuss the uses of Super centrifuge
15. State Fourier's law
16. Explain rate of drying curve
17. Uses of air separator
18. Factors affecting filtration
19. Write briefly on filter aids
