

2012 Scheme

QP CODE: 216006

Reg. No:

Second Year B.Pharm Degree Supplementary Examinations July 2025 Pharmaceutical Technology

Time: 3 Hours

Total Marks: 100

- *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*

Essay

(3x10=30)

1. Explain the construction, working principle, advantages, and limitations of centrifugal pumps with neat diagrams.
2. Discuss and derive Fourier's law of heat conduction through a metal wall with relevant equations.
3. Define size reduction. Explain the advantages and disadvantages of size reduction and describe in detail ball mill.

Short notes

(14x5=70)

4. Reciprocating pumps.
5. Classification of materials of construction.
6. Stainless steel in pharmaceutical industry.
7. Sources and uses of heat in pharmaceutical industry.
8. Types of corrosion.
9. Role of filter aid and its examples.
10. Centrifugal sedimenters and centrifugal filters.
11. Multiple effect evaporators.
12. Short tube evaporator.
13. Extractive distillation.
14. Freeze drying.
15. Rate of drying.
16. Electrical and dust hazards.
17. Theory of mixing.
