

2012 Scheme

QP CODE: 216006

Reg. No:

Second Year B.Pharm Degree Supplementary Examinations January 2023

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 various types of hoppers and conveyors.
2. Explain the theory of filtration and the principle of an industrial centrifugal filter.
3. Classify the different types of dryers with their applications, advantages and disadvantages.

Short notes

(14x5=70)

4. Reciprocating pump.
5. Industrial compressors.
6. Flow of heat through liquids and equation for the rate of heat transfer.
7. Hammer mill.
8. Factors affecting size reduction.
9. Factors affecting evaporation.
10. Principle of rectification.
11. Spray drying.
12. Humidity chart.
13. Concept of wet bulb and adiabatic saturation temperature.
14. Mixers for powders.
15. Composition, corrosion resistance and properties of stainless steel as material of construction in pharmaceutical manufacturing equipments.
16. Principle of freeze drying.
17. Industrial dermatitis.
