

# **2012 Scheme**

**QP CODE: 216006**

**Reg. No: .....**

## **Second Year B.Pharm Degree Supplementary Examinations July 2024 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. Describe the advantage, limitations, uses, construction and working of fluid energy mill with a neat labelled diagram
2. Explain the principle, construction, working and uses of spray dryer with a neat diagram
3. Explain Fourier's' Law of Heat conduction through single metal wall

### **Short notes**

**(14x5=70)**

4. Define and differentiate between filtration and centrifugation
5. Describe the construction and working of plate and frame filter press
6. Explain the principle, construction and working of Ball Mill
7. Discuss the causes for occurrence of chemical hazards and suggest its prevention
8. Discuss in brief the principle and working of rotary drum filters with a labelled diagram
9. Explain in brief about mixing of pastes and liquids
10. Define Size Separation. Describe the principle with a neat labelled diagram of Cyclone separator
11. What is Corrosion. Describe the various theories of Corrosion
12. Describe the Dust hazards in the industry. Methods to overcome the same
13. Differentiate between tray dryer and tunnel dryers
14. Describe the construction and working of Leaf filter
15. Discuss the methods to determine humidity
16. Different types of materials used for construction with examples
17. Describe the terms: Percent humidity and relative humidity

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