Third Semester B. Pharm Degree Regular/Supplementary Examinations August 2023

Pharmaceutical Engineering

(2017 Scheme)

Time: 3 Hours

- 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

- 1. Describe the principle, construction, working and uses of Fluidized bed dryer with neat labelled diagram
- 2. Discuss about propellers, turbines and paddles with diagrams

Short Notes

- 3. Explain the different laws governing size reduction
- 4. Write the different grades of powders with standard IP specifications
- 5. Explain the construction and working of orifice meter with diagram
- 6. Explain the theories of heat transfer by radiation
- 7. Describe the theory of centrifugation
- 8. Explain the construction and working of horizontal tube evaporator with a neat diagram
- 9. Factors influencing selection of materials for Pharmaceutical plant construction

Answer Briefly

- 10. Belt conveyors
- 11. Define EMC and FMC in relation to drying
- 12. Enlist the factors influencing the filtration
- 13. Mechanisms of solid mixing
- 14. Uses of mechanical sieve shaker machine
- 15. Mechanisms of heat transfer
- 16. Differentiate between simple and steam distillation
- 17. Applications of super centrifuge
- 18. Advantages of hammer mill
- 19. Types of ferrous metals used in pharmaceutical plant design

Max. Marks: 75

(7x5=35)

(10x2=20)

(2x10=20)