QP Code: 324006 Reg. No......

Third Semester B. Pharm Degree Supplementary Examinations October 2024

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. Describe the principle, construction and working of multiple effect evaporator with neat diagram. Add a note on its Economy.
- 2. Explain the principle, construction, working, uses, merits and demerits of fluid energy mill.

Short Notes (7x5=35)

- 3. Explain the principle, construction and working of Tray dryer. Give its applications
- 4. Describe the Reynolds experiment for flow of fluids.
- 5. State and derive Fourier's law and give its applications.
- 6. Explain the factors affecting rate of evaporation.
- 7. Describe the principle and apparatus set up for Flash distillation.
- 8. Define corrosion. Write about types of corrosion.
- 9. Write the principle, construction and working of cyclone separator with neat diagram.

Answer Briefly (10x2=20)

- 10. Filter aids with examples.
- 11. Mechanisms of size reduction.
- 12. Differentiate between solid and liquid mixing.
- 13. Write the applications of Freeze dryer.
- 14. Give the applications of size separation.
- 15. Define filtration and centrifugation process.
- 16. Enlist different types of metals and non-metals.
- 17. Uses of sigma blade mixer.
- 18. Draw well labeled diagram of Rotameter.
- 19. Enlist factors affecting mixing of solids.
