QP Code: 324006	Reg. No

Third Semester B. Pharm Degree Supplementary Examinations May 2023

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. Explain the heat transmission through a circular pipe by Fourier's law using suitable equations and a labelled diagram.
- 2. Explain the principle, construction and working of fluidized bed dryer with a labelled diagram.

Short Notes (7x5=35)

- 3. Explain the construction and working of non-perforated basket centrifuge.
- 4. Explain the construction of Hammer mill with its demerits.
- 5. Bag filter with a diagram.
- 6. Explain Energy losses for flow of fluids.
- 7. Working of planetary mixer with a labelled diagram.
- 8. Differentiate between Meta filter and cartridge filter with diagrams.
- 9. Describe the principle and construction of horizontal tube evaporator.

Answer Briefly (10x2=20)

- 10. Labelled diagram of venturi meter.
- 11. Mechanism of size reduction.
- 12. Factors influencing evaporation.
- 13. Economy of multiple effect evaporators.
- 14. Demerits of Sieve shaker.
- 15. Types of heat transfer mechanisms.
- 16. Application of fractional distillation.
- 17. Screw conveyors.
- 18. Turbines.
- 19. Filter medias.

CORRECTION / NO-CORRECTION FILE

QPCODE: 324006 Dated: 22-05-2023

There are no corrections in today's question paper.

This matter to be announced by the Chief Supdt./Invigilator and get the signature of two students - one from the front row and one from the back row, as a proof of this announcement.

(Sd/-)

CONTROLLER OF EXAMINATIONS