QP CODE: 204008	Reg. No:

Second B. Pharm (Ayurveda) Degree Regular/Supplementary Examinations March 2023

Pharmaceutical Engineering

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

Essays: (2x10=20)

- 1. Define drying and explain the mechanism of drying. Explain the principle and working of vacuum dryer.
- 2. Explain the principle, construction, working, advantages and disadvantages of ball mill.

Answer briefly: (10x5=50)

- 3. What are blowers and compressors. Add a note on any one compressor.
- 4. Explain the principle and working of super centrifuge.
- 5. Describe the working of plate and frame filter press.
- 6. Explain the principle and working of climbing film evaporator.
- 7. Add a note on simple distillation.
- 8. Explain principle, construction and working of agitated batch crystallizer.
- 9. Add a note on any one equipment used for liquid mixing.
- 10. Describe stainless steel as material of construction.
- 11. Add a note on simple manometer.
- 12. Explain any two methods for the measurement of humidity.

Short notes: (10x3=30)

- 13. Reynold's number and its significance.
- 14. Black body.
- 15. Construction of short tube evaporator.
- 16. Extractive distillation.
- 17. Rittinger's theory.
- 18. Working of filter leaf.
- 19. Principle of fluidized bed dryer.
- 20.Industrial hazards.
- 21. Caking of crystals.
- 22. Accident records.
