

QP Code: 324006

Reg. No.....

**Third Semester B. Pharm Degree Regular/Supplementary
Examinations October 2021**

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 principle, construction and working of perforated basket centrifuge with a neat labelled diagram
2. Explain principle, construction, working, uses of steam distillation process with a neat labelled diagram

Short Notes

(7x5=35)

3. Explain the principle, construction and working of ball mill.
4. State Bernoulli's theorem with equation and give two applications.
5. Explain working of double cone blender with diagram.
6. Discuss the construction and working of cyclone separator.
7. Explain the working of multiple effect evaporator.
8. Describe drying rate curves
9. Explain heat exchanger with a labelled diagram

Answer Briefly

(10x2=20)

10. Demerits of fractional distillation process.
11. Types of manometers.
12. Factors affecting size reduction.
13. Merits of Sieve shaker
14. Difference between solid and liquid mixing
15. Applications of evaporation
16. Heat interchangers
17. Filter aids
18. Theory of corrosion
19. Types of conveyors.
