**QP Code: 324006** **Reg. No……**

## Third Semester B. Pharm Degree Regular/Supplementary Examinations October 2022

## 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. State and derive Bernoulli's theorem. Give its applications in pharmacy.
2. Describe the construction and working of Plate and frame filter press with neat diagram.

**Short Notes** **(7x5=35)**

3. Explain the construction and working of Air separator with neat diagram.
4. Write about heat interchangers for heat transfer.
5. Explain the construction and working of climbing film evaporator with neat diagram.
6. Describe the drying rate curve.
7. Fractional distillation.
8. Explain screw conveyors with neat diagram.
9. Theories of corrosion.

**Answer Briefly** **(10x2=20)**

10. Manometers
11. Mechanisms of size separation
12. Define black body and grey body
13. Applications of spray dryer
14. Design of V-cone blender
15. Applications of distillation
16. Filter leaf
17. Enlist factors affecting corrosion
18. Types of stainless steel
19. Define bound and unbound water.

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