

QP Code: 324006

Reg. No.....

**Third Semester B. Pharm Degree Supplementary Examinations
April 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. Describe the principle and factors affecting size reduction. Discuss in detail about fluid energy mill. (4+6)
2. Define corrosion. Classify the types of corrosion. Explain in detail about the methods for its prevention.

Short Notes

(7x5=35)

3. Explain about the Bernoulli's theorem and its applications.
4. Discuss the working principle of cyclone separator with neat diagram.
5. Planetary mixer.
6. Explain about multiple effect evaporators.
7. Discuss the working principles of plate and frame filter.
8. Stainless steel as material for plant construction.
9. Fourier's law of heat transfers by conduction across a metal wall

Answer Briefly

(10x2=20)

10. Applications of filtration.
11. Pneumatic conveyor
12. Types of glass as material for plant construction.
13. Turbulent flow.
14. Raoult's law.
15. Stefan Boltzmann law
16. Bonds theory and its importance
17. Rotameter
18. Bound water.
19. Filter aids.
