

(LP 2037)

SEPTEMBER 2019

Sub. Code: 2037

**B.PHARM. DEGREE EXAMINATION
PCI REGULATION – SEMESTER III
SECOND YEAR
PAPER IV – PHARMACEUTICAL ENGINEERING**

Q.P. Code: 562037

Time: Three hours

Maximum: 75 Marks

I. Elaborate on: Answer any TWO questions. (2 x 10 = 20)

1. Explain the principle, construction, working, uses, merits and demerits of Climbing film evaporator.
2. Discuss in detail Filter Press.
3. Explain the theory behind Corrosion. How will you prevent and control Corrosion?

II. Write notes on: Answer any SEVEN questions. (7 x 5 = 35)

1. Rota meter.
2. Concepts of Boundary layer.
3. Write briefly on mechanism of heat transfer.
4. Propellers.
5. Edge runner mill.
6. Stainless steel as the material of pharmaceutical plant construction.
7. Steam distillation.
8. Materials used for plant construction.
9. Super centrifuge.

III. Short answers on: Answer ALL questions. (10 x 2 = 20)

1. Turbulent Flow.
2. What are the grades of powder?
3. Write any two factors influencing Filtration.
4. Lyophilisation.
5. Homogenization.
6. Define Filter Aids.
7. Centrifugal effect.
8. What is latent heat?
9. Fourier's Law.
10. Volatility.
