

V - 4694**B. Pharmacy (Third Semester)
(Reg./A.T.K.T.) EXAMINATION,****Dec. 2019****BP - 304 T****P'CEUTICAL ENGINEERING***Time : Three Hours**Maximum Marks : 75**Minimum Pass Marks : 50%***Note-** Attempt any five questions. All questions carry equal marks.

1. (a) Write objective and mechanism of size reduction.
- (b) Write principle, construction and working of ball mill. 15
2. (a) Write objective and application of heat transfer.
- (b) What is evaporation ? Discuss the merits and demerits of steam Jackated kettle. 15

3. Write objective and mechanism of drying process with brief discussion on tray dryer. 15
4. Discuss in detail about theory of filtration with construction, working, merit and demerits of rotary drum filters. 15
5. (a) Write objective, principle and application of centrifugation.
- (b) Define corrosion and how to prevent corrosion. 15
6. Write short notes on any three- 15
 - (a) Orificemeter
 - (b) Freeze dryer
 - (c) Planetary mixers
 - (d) Filter leaf.
7. Write short notes on any three- 15
 - (a) Orifice meter
 - (b) Ferrous and nonferrous metals
 - (c) Steam distillation
 - (d) Heat exchange.