

B. Pharm- III semester
Sub: -Pharmaceutical Engineering
Sub code: -BP-304T

Time: - 3hrs

MM: -75

Short answer type questions

Note: - Attempt any 5 questions, draw neat & labeled diagram where requires. 5X7=35

- Q.1 Explain Bernoulli's theorem and its applications.
- Q.2 Describe the principle, working and advantages of sigma blade mixer.
- Q.3 Give the standards fixed by Pharmacopoeia for sieves.
- Q.4 Draw the diagram of evaporating pan and give the advantages and uses of it.
- Q.5 Define evaporation. What are the factors influencing evaporation.
- Q.6 Explain the factors which should be considered during selection of materials for Pharmaceutical plant construction.
- Q.7 Describe the Laws governing size reduction.
- Q.8 Explain the principle and applications of centrifugation.
- Q.9 Explain the principle of super centrifuge and enlist its applications.
- Q.10 Define heat transfer and its mechanism.

Long answer type questions

Note: - Attempt any 4 questions, draw neat & labeled diagram where requires. 4X10=40

- Q.1 Explain drying rate curve in detail.
- Q.2 Define drying. Give the principle, construction, working, uses, merits and demerits of Tray dryer.
- Q.3 Define size separation, with neat diagram describe the principle, construction, working, uses, merits and demerits of Sieve shaker.
- Q.4 Define size reduction give the principle, construction, working, uses, merits and demerits of Ball mill.
- Q.5 Define centrifugation. Give the principle, construction, working, uses, merits and demerits of perforated basket centrifuge.
- Q.6 Define mixing. Give the principle, construction, working, uses, merits and demerits of Silverson emulsifier.
- Q.7 Define Filtration. Give the principle, construction, working, uses of rotary Meta filter?
- Q.8 Define Distillation. Explain the methodology of Flash distillation.