

B.Pharm. 3rd year 2nd semester Examination, Session 2021-22

Sub:Pharmaceutics VI Ref:Ex/Pharm / T / 321

Total Marks 100 Time 3 hr

Each question carries 20 marks. Answer any 05 questions taking at least ONE from each group.

Group A

1. Describe the theories of dissolution.
2. Write short notes on any four of the following-
 - (i) Binding of Drugs to Human Serum Albumin
 - (ii) Volume of distribution
 - (iii) Fick's first law of diffusion
 - (iv) Partition coefficient and distribution coefficient
 - (v) Characteristics of carrier mediated transport

Group B

3. Natural and synthetic polymers have wide applicability in the design and development of ophthalmic formulations. Discuss.
4. Write short notes on any 2 of the following:
 - a) Various types and nomenclature of propellant system
 - b) The importance of particle size on the therapeutic efficacy of aerosol system
 - c) Formulations aspects of aerosols.

Group C

5. Write down the various commercial injections. Elaborate formulations of parenterals.
6. Explain the processing of parenteral preparations. Elaborate evaluation of parenteral preparations.

Group D

7. Discuss the various factors which are considered as pillars towards maintaining optimal health. (20)
8. Write short notes on any 5 of the following:
 - a) Body mass index and its importance
 - b) Omega 3 fatty acids and its importance
 - c) Nutraceuticals for women's health
 - d) Nutraceuticals for healthy aging
 - e) Antioxidants to overcome the free radical induced damages
 - f) Organic farming and its importance
 - g) Phytonutrients and associated food factors.