

B.Pharm III Year I Semester (R09) Supplementary Examinations June 2018

**PHARMACEUTICAL TECHNOLOGY - I**

Time: 3 hours

Max. Marks: 70

Answer any FIVE questions  
All questions carry equal marks

\*\*\*\*\*

1. (a) Write in detail about the physicochemical properties which influence the formulation.  
(b) Write the applications of aerosols.
2. (a) What are the objectives of ICH stability testing procedures and how do they differ from the conventional stability testing.  
(b) Write the physicochemical properties of the drug to be considered in the formulation of liquid orals.
3. (a) Write significance of polymorphism and particle-particle interactions in the preparation of suspensions.  
(b) How do you evaluate the rheological properties of suspensions?
4. (a) Define aerosols and classify the propellants used in the manufacture of aerosols with suitable examples.  
(b) What are stability problems of suspensions and suggest methods for overcoming them?
5. (a) Write about the containers used in the packaging of ophthalmic preparations.  
(b) What precautions should be taken during instillation of eye drops into eye.
6. (a) Discuss the formulation additives used in liquid orals.  
(b) Write the factors influencing & mechanism of drug penetration.
7. What are the ideal requirements of a suppository base and give examples of bases used and write about manufacturing and packing procedure requirements of suppositories?
8. Write in brief about the following:
  - (a) Quality control tests for aerosols.
  - (b) Evaluation tests for emulsions and suspensions.

\*\*\*\*\*