

FACULTY**B. Pharmacy 3/4 I – Semester (Main) Examination, November 2017****Subject : Pharmaceutical Technology (Pharmaceutics II)****Time : 3 hrs****Max. Marks : 70****Note : Answer all questions. All questions carry equal marks.**

- 1 a) Discuss the criteria for selectin preservatives and diluents based on properties for a given formulation. 7
b) Explain different surfactants and their properties. 7
OR
c) What is bloom strength? Describe various methods of filling of hard gelatin capsules. 8
d) Describe manufacturing of soft gelatin capsules. 6
- 2 a) Define Stokes' law. Describe problems and trouble shooting in the formulation of suspensions. 7
b) Explain various quality control tests for suspensions. 7
OR
c) What are emulsions? Describe quality control tests for emulsion. 7
d) Describe the stability of emulsion. 7
- 3 a) Describe disintegration test and its limits according to various pharmacopeia. 5
b) Describe various processing problems encountered during compression. 9
OR
c) Write about polymers used in coating processes. 7
d) Describe in detail sugar coating process. 7
- 4 a) Classify injectables based on route of administration. Write a note on sterile powders. 7
b) Explain different types of packaging systems used in parenterals. 7
OR
c) Describe formulation of eye drops. What are the 'caution' instructions to be printed on the ophthalmic packaging system according to D&C act. 8
d) Write in detail quality control tests and animal testing required for eye ointments. 6
- 5 a) What are propellants? Mention their advantages and disadvantages. 5
b) Describe packaging and pharmaceutical applications of aerosols. 9
OR
c) Describe quality control tests for plastics. 9
d) Write a note on drug and packaging system interaction. 5
