

Code: 17S08101

M.Pharm I Semester Regular Examinations February 2018

PHARMACEUTICAL FORMULATION DEVELOPMENT

(Industrial Pharmacy)

(For students admitted in 2017 only)

Time: 3 hours

Max. Marks: 60

Answer all the questions

- 1 Explain briefly about mechanism of drug-excipient interaction.
- OR**
- 2 Describe various methods of powder flow characteristics.
- 3 Explain different types of additives used in the formulation and their importance.
- OR**
- 4 Explain in detail about new developments in excipient science.
- 5 (a) Define cosolvency and write a brief note on characteristics of cosolvents with advantages and disadvantages.
(b) Write a brief note on factors effecting critical micelles concentration.
- OR**
- 6 Write a brief note on the following:
 - (a) Hydrotropy.
 - (b) Salt formation.
 - (c) Complexation.
- 7 Explain in detail about theories of drug dissolution.
- OR**
- 8 Define IVIC and explain in detail about IVIC correlation levels.
- 9 Write a brief note on Q1 ICH guidelines.
- OR**
- 10 Write in detail about the factors influencing product stability.
