

B.Pharm II Year II Semester (R15) Regular Examinations May/June 2017

**PHARMACEUTICAL TECHNOLOGY – I**

Time: 3 hours

Max. Marks: 70

**PART – A**

(Compulsory Question)

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- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) Mention the need for carrying out drug-excipient incompatibility studies.
  - (b) Mention the problems of hydrolysis and how the product is protected.
  - (c) Write about flavours used in liquid orals.
  - (d) Write about emulsifying agents suitable for preparation of water in oil emulsion.
  - (e) What are water washable bases? Give two examples.
  - (f) Define suppository and mention its specific advantages.
  - (g) What are propellants and give two examples.
  - (h) Write about the specific uses of aerosols.
  - (i) Mention the uses of plasma substitutes.
  - (j) Write about the applications of PVP.

**PART – B**

(Answer all five units, 5 X 10 = 50 Marks)

**UNIT – I**

- 2 Enumerate the effects of particle size, solubility and partition coefficient on formulation.

**OR**

- 3 Mention the goals of preformulation and explain the protocol.

**UNIT – II**

- 4 Explain the preparation and evaluation of a stable suspension.

**OR**

- 5 What are dry syrups? Mention their advantages and explain their methods of preparation.

**UNIT – III**

- 6 Enumerate the factors influencing the selection of ointment bases. Give the classification of ointment bases with suitable examples.

**OR**

- 7 Explain the evaluation tests for semisolids.

**UNIT – IV**

- 8 Explain the working of aerosol valve.

**OR**

- 9 Explain the formulation of aerosols.

**UNIT – V**

- 10 Explain the preparation and human thrombin and human fibrin foam and mention their uses.

**OR**

- 11 Explain the preparation and evaluation of whole human blood and its preservation.

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