

Code: 15R00403

**R15**

B.Pharm II Year II Semester (R15) Regular &amp; Supplementary Examinations May/June 2018

**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 goals of preformulation.
  - (b) What are the objectives ICH guidelines?
  - (c) Why dry syrups are prepared? Give one example.
  - (d) Write about stabilizers used for liquid orals.
  - (e) Define paste, ointment, cream and gel with one example each.
  - (f) Define displacement value and mention its significance.
  - (g) Write the principle of flam test for aerosols.
  - (h) Give the specific advantages of aerosols.
  - (i) What are plasma substitutes?
  - (j) Mention the ideal requirements of blood products.

**PART – B**

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

**UNIT – I**

- 2 Explain the procedure of carrying out preformulation studies for disperse systems.
- OR**
- 3 Discuss the role of partition coefficient, polymorphism and dissolution in formulation development.

**UNIT – II**

- 4 Write about additives used in the formulation of suspensions.
- OR**
- 5 Explain the evaluation of emulsions.

**UNIT – III**

- 6 Give the classification of suppository bases and explain the methods of preparation of suppositories.
- OR**
- 7 Explain the factors influencing the penetration of drugs across skin and discuss methods for improving penetration of drugs across skin.

**UNIT – IV**

- 8 Give the classification of propellants and explain their uses. What factors will influence their selection?
- OR**
- 9 Write about formulation additives used in the manufacture of aerosols.

**UNIT – V**

- 10 Explain the collection, processing and storage of whole human blood.
- OR**
- 11 Write about the following:
- (a) Foam plasma substitute.
  - (b) Human thrombin.

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