

PHARMACEUTICAL TECHNOLOGY – I

Time: 3 hours

Max. Marks: 70

PART – A

(Compulsory Question)

- 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.
