

PHARMACEUTICAL TECHNOLOGY – I

Time: 3 hours

Max. Marks: 70

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) Write the significance of preformulation studies with suitable examples.
 - (b) Mention the problems of oxidation and how the product is protected.
 - (c) What is the need for preparation of dry syrups? Give two examples of dry syrups.
 - (d) Give the classification of emulsifying agents.
 - (e) Define ointment, paste and jelly. Give suitable example for each.
 - (f) Define displacement value and mention its significance.
 - (g) Mention the advantages of aerosol.
 - (h) What are the reasons for banning fluoro hydrocarbons in aerosols?
 - (i) Mention the uses of human fibrin.
 - (j) Name the anticoagulants for preventing the clotting of blood.

PART – B

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

UNIT – I

- 2 Explain the methods for studying the drug-exciipient compatibility.

OR

- 3 Explain the stability testing of drug products as per ICH guidelines.

UNIT – II

- 4 Enumerate the additives used in the preparation of liquid orals.

OR

- 5 Explain the preparation methods for emulsions mentioning their relative advantages.

UNIT – III

- 6 Write about the mechanism of penetration of drugs across skin and factors influencing the same.

OR

- 7 Give the advantages of suppositories and give the classification of suppository bases. Briefly explain the method of manufacture of suppositories.

UNIT – IV

- 8 Write about formulation additives for aerosols.

OR

- 9 Explain the evaluation tests for aerosols.

UNIT – V

- 10 Explain the preparation of dried human plasma and mention its uses.

OR

- 11 Write about the quality control of blood products.
