

Time: 3 hours

Max. Marks: 70

PART – A

(Compulsory Question)

- 1 Answer the following: (10 X 02 = 20 Marks)
- (a) Write about bloom strength.
 - (b) Write the advantages and disadvantages of capsules.
 - (c) Write the significance of microencapsulation in pharmacy.
 - (d) Mention various evaluation parameters of microcapsules.
 - (e) Explain the causes and remedies for orange peel effect.
 - (f) Mention various parts and their role of rotary tablet compression machine.
 - (g) Write about various routes of administration of parenteral products.
 - (h) Write about various preservatives used in parenteral products.
 - (i) Discuss the factors influencing the choice of containers.
 - (j) Explain about treated soda lime glass and its applications.

PART – B

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

UNIT – I

- 2 Write in detail about hard gelatin capsule filling method.
- OR**
- 3 Give a detailed account on various quality control tests for capsules.

UNIT – II

- 4 Explain in detail about phase separation coacervation method of microencapsulation.
- OR**
- 5 Write a detailed note on tray drying and spray congealing methods.

UNIT – III

- 6 Give a detailed account on formulation of tablets.
- OR**
- 7 Explain in detail about causes and remedies of various processing problems of tablets.

UNIT – IV

- 8 Describe various methods of adjusting tonicity of parenteral products.
- OR**
- 9 (a) Write about the methods of preparation of water for injection.
(b) Explain about any method for sterilization of containers.

UNIT – V

- 10 Write about the methods for packing of solids and liquids.
- OR**
- 11 Write about:
- (a) Stability of packaging.
 - (b) Metals as packing materials.
