

**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) Explain the significance of polymorphism in preformulation.
  - (b) Add a note on baby care products.
  - (c) Explain the significance of solubility in preformulation.
  - (d) Give classification of emulsifying agents.
  - (e) Add a note on solubilizers used in liquid dosage form.
  - (f) Add a note on shampoo.
  - (g) Enlist types of suppository bases.
  - (h) Enlist names of hydrocarbon propellants used in aerosols.
  - (i) Define pharmaceutical aerosol system and its working.
  - (j) Give formulation aspect of face powder.

**PART – B**

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

**UNIT – I**

- 2 Explain various physicochemical parameters under preformulation study.

**OR**

- 3 Elaborate on various routes of degradation of drugs with examples and its significance in preformulation study.

**UNIT – II**

- 4 Give types of emulsions. Explain formulation aspect of stable emulsion with additives used in it.

**OR**

- 5 (a) Explain formulation aspect of ophthalmic products.  
(b) Give tests for detection of types of emulsion.

**UNIT – III**

- 6 Explain formulation aspect of ointment and add a note on types of bases used in it.

**OR**

- 7 Add a note on penetration enhancers used in semisolids. Explain evaluation test parameters of semisolids.

**UNIT – IV**

- 8 Explain packaging of aerosols. Give quality control tests for aerosols.

**OR**

- 9 Elaborate on methods used for filling of aerosols in container. Explain formulation aspect of pharmaceutical aerosols.

**UNIT – V**

- 10 Explain formulation, evaluation and packaging of dentifrices.

**OR**

- 11 Explain formulation, packaging of nail polish, lipsticks and eyelashes.

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