

B.Pharm III Year I Semester (R13) Supplementary Examinations 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) What is the need of study of partition coefficient in preformulation?
  - (b) What are the different types of additives used in the formulation of liquid orals?
  - (c) What are semisolid dosage forms? List out the evaluation tests for semisolid preparations.
  - (d) What are aerosols? Give the packaging methods for aerosols.
  - (e) What are epilatories and depilatories?
  - (f) List out the evaluation tests for emulsions.
  - (g) How do you select a semisolid base for semi solid preparations?
  - (h) Write the pharmaceutical applications of aerosols.
  - (i) Give the general formula for a shampoo.
  - (j) What are the evaluation tests for clear liquids?

**PART – B**

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

**UNIT – I**

- 2 Discuss the effect of following physicochemical properties on formulation:
- (i) Density.
  - (ii) Organoleptic additives.
  - (iii) Hydrolysis.

**OR**

- 3 Discuss the importance of drug-excipient compatibility studies in preformulation.

**UNIT – II**

- 4 Give informative notes on the following with reference to liquid dosage forms:
- (i) Suspending agents.
  - (ii) Solubilizers.
  - (iii) Colors and flavours.

**OR**

- 5 Write the method of preparation and evaluation of emulsions.

**UNIT – III**

- 6 Discuss general formulation and evaluation of semi-solid dosage forms.

**OR**

- 7 What are the ideal requirements of a suppository base and add a note on different types of suppository bases with examples.

**UNIT – IV**

- 8 Discuss quality control tests for aerosols.

**OR**

- 9 Write formulation and packaging of pharmaceutical aerosols.

**UNIT – V**

- 10 Describe formulation, preparation and packaging of emollient lotions.

**OR**

- 11 Write formulation, preparation and evaluation of tooth pastes.