



**FACULTY OF PHARMACY**

**B. Pharmacy I-Semester (PCI) (Main) Examination, January 2018**

**Subject : Pharmaceutics – I**

**Time : 3 Hours**

**Max. Marks: 75**

**Note: Answer all questions from Part – A, any two questions from Part – B and any seven questions from Part - C.**

**PART – A (10x2=20 Marks)**

**Answer All Questions. All Questions carry equal marks.**

- 1 Define paste? Mention various types of bases employed in the preparation of pastes?
- 2 What are eutectic mixture? Give two examples.
- 3 Define synergism and give one example?
- 4 Define and Classify suspensions?
- 5 What are effervescent powders? Give two examples.
- 6 Find the incompatibility present in the given formulae and write the correction method  
Castor oil 15 ml  
Water up to 60 ml make an emulsion
- 7 Convert 15.6° U/P into percentage strength of alcohol by volume?
- 8 What are the stability problems of emulsion?
- 9 What is the dose of a medicament for a child that weighing 28lb, if the average adult dose is 100mg?
- 10 What do you mean by inscription and subscription of a prescription?

**PART – B (2x10=20 Marks)**

**Answer any TWO questions. All questions carry equal marks.**

- 11 Define ointment. Give an account of various bases used in the preparation of ointment.  
Add a note on the method of preparation of ointment?
- 12 Classify monophasic liquid dosage forms? Discuss about the preparations which are used in syrups and elixirs?
- 13 What are incompatibilities? Describe in detail about physical incompatibilities and their remedies with suitable examples?

**Part – C (7x5=35 Marks)**

**Answer any SEVEN questions. All questions carry equal marks.**

- 14 Define isotonicity? What is the concentration of sodium chloride required to prepare 1.5% W/V Procaine HCl isoosmotic with blood plasma? (F.P of 1% Procaine HCl is  $-0.122^{\circ}\text{C}$  and F. P of 1% sodium chloride is  $-0.576^{\circ}\text{C}$ )
- 15 Write a note on history of profession of pharmacy in India?
- 16 Differentiate  
(a) Lotions and liniments  
(b) Suspensions and emulsions
- 17 Write a note on alkaloidal chemical incompatibility with examples and their correction method.
- 18 Explain about the solubility enhancement techniques?
- 19 Define emulsions? Explain the various identification tests for emulsions?
- 20 Write a short note on thickening agents and wetting agents?
- 21 Write a short note on ear drops, nasal drops?
- 22 Write in detail about mandl's paint?

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