

**FIRST YEAR PHARM. D (SUPPLEMENTARY) : SUMMER - 2018**

**SUBJECT: PHARMACEUTICS**

Day: **Tuesday**  
Date: **03/07/2018**

**S-2018-4049**

Time: **10.00 AM to 01.00 PM**  
Max. Marks: 70

**N.B.:**

- 1) **Q. No. 1 and Q. No. 5** are **COMPULSORY**. Out of the remaining questions solve any **TWO** questions from each section.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SEPARATE** answer book.

**SECTION-I**

- Q.1 a)** Answer any **FOUR** of the following: **(08)**
- i) Define the term Idiosyncrasy and Tolerance.
  - ii) Differentiate between the liniments and lotions.
  - iii) Enlist the advantages of solutions.
  - iv) Define and write the importance of PMR with example.
  - v) What is isotonicity? State its importance in sterile dosage forms.
- b)** If the adult dose of Ampicillin is 250 - 500 mg 3 - 4 times a day. What will be dose of child of age of 10 years? **(03)**
- Q.2** Define and explain the various parts of prescriptions with examples. **(12)**
- Q.3 a)** Write about the fundamental operations in compounding of powders. **(07)**
- b)** Explain briefly various additives used in the preparation of solutions. **(05)**
- Q.4** Write short notes on any **THREE** of the following: **(12)**
- a) Handling of prescriptions
  - b) Factors affecting the dose selection
  - c) Developmental changes in Indian Pharmacopoeia
  - d) Historical background and development of profession of pharmacy

**SECTION-II**

- Q.5 a)** Answer any **FOUR** of the following: **(08)**
- i) Enlist the ideal properties of suppository bases.
  - ii) What is the labelling condition and patient counselling for Calamine lotion and Magnesium hydroxide mixture?
  - iii) Write briefly roles of wetting agents and emulsifying agents with examples.
  - iv) Explain the need of calibration of suppository moulds.
  - v) Define the term displacement value and infusions.
- b)** Write briefly about physical stability of suspensions. **(03)**
- Q.6** Define emulsion. Explain in detail formulation aspects of emulsion. **(12)**
- Q.7 a)** Explain in detail physical incompatibility with examples. **(07)**
- b)** Explain briefly the principles of extraction. **(05)**
- Q.8** Write short notes on any **THREE** of the following: **(12)**
- a) Cracking of emulsion
  - b) Steps for the suppository preparation
  - c) Formulation aspects of liquid paraffin emulsion
  - d) Maceration