

**FIRST YEAR PHARM. D : Winter - 2021**  
**SUBJECT: PHARMACEUTICS**

Day: Tuesday  
Date: 07-12-2021

**W-5725-2021**

Time: 10:00 AM-01:00 PM  
Max Marks. 70

**N.B.**

- 1) Q. No. 1 and Q. No. 5 are **COMPULSORY**. Out of the remaining attempt any **TWO** questions from Section – I and any **TWO** questions from Section - II.
- 2) Answer to both section should be written in **SEPARATE** answer books.
- 3) Figures to the right indicate **FULL** marks.
- 4) Draw neat labeled diagrams **WHEREVER** necessary.

**SECTION – I**

- Q.1** A) Answer any **FOUR** of the following: (08)
- i) Define the term synergism and idiosyncrasy.
  - ii) Differentiate between liniments and lotions.
  - iii) What is the direction, storage condition and patient counselling for gargles and elixirs?
  - iv) Write the significance of nasal sprays over nasal drops.
  - v) Write the role and examples of stabilizers and preservatives.
  - vi) Write the examples of prescription errors.
- B) What will be the dose of paracetamol for a child of four years? (Adult dose is 500 mg) (03)
- Q.2** Define and classify solution. Explain various additives and compounding methods for the preparation of solution. (12)
- Q.3** a) What are the various factors considered for dose selection? (07)
- b) Write about historical background and profession a pharmacy. (05)
- Q.4** Write notes on any **THREE** of the following: (12)
- a) Developmental changes in Indian pharmacopoeia
  - b) Types and refilling instructions for prescription
  - c) Types and unit operations in compounding a powders
  - d) Compounding and dispensing aspect of mouth wash
  - e) Isotonic solutions

**SECTION - II**

- Q.5** A) Answer any **FOUR** of the following: (08)
- i) Define tinctures and Maceration.
  - ii) What are suspending agents? Classify them.
  - iii) Briefly write about compounding methods of emulsion.
  - iv) Enlist the ideal properties of coca butter suppository.
  - v) Differentiate between flocculated and deflocculated suspension.
  - vi) Define displacement value with example.
- B) Define and classify the emulsifying agents. (03)
- Q.6** Define incompatibility. Explain the therapeutic incompatibility with example. (12)
- Q.7** a) Explain the steps involved in the preparation of suppository with suitable base. (07)
- b) Write about physical stability of suspension. (05)
- Q.8** Write notes on any **THREE** of the following: (12)
- a) Maceration process
  - b) Identification test for emulsion
  - c) Absorbable sutures and ligatures
  - d) Factors affecting the rate of extraction
  - e) Calamine lotion

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