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**B. PHARMACY (First Year) (I Sem.) EXAMINATION, 2018**  
**PHARMACEUTICS-I**  
**(2015 PATTERN)**

**Time : Three Hours**

**Maximum Marks : 60**

**N.B. :—** (i) Answers to the *two* sections should be written in separate answer books.

(ii) Neat diagrams must be drawn wherever necessary.

(iii) Figures to the right indicate full marks.

**Section I**

1. Attempt any *one* : [10]

Classify the dosage form and explain different routes of drug administration in brief.

*Or*

Define drug. What are the different sources of drug ? Write the rationale for development of dosage form.

2. Attempt any *four* : [12]

(a) Write the principles of Homoeopathy as alternative system of medicine.

(b) What is pharmacopoeia ? Add a note on Indian Pharmacopoeia.

(c) Write the scope of pharmaceutical engineering.

(d) What are the career opportunities after pharmacy graduation ?

P.T.O.

- (e) Describe Siddha and Unani system of medicine.
  - (f) Write brief about ayurvedic pharmacopoeia.
  - (g) What are the different branches of pharmaceutics ?
3. Write short notes (any *two*) : [08]
- (a) Pharmacy code of ethics
  - (b) Principle of ayurvedic system of medicine
  - (c) Scope of hospital pharmacy
  - (d) U.S.P.

### Section II

4. Attempt any *one* : [10]

Explain water as universal solvent in pharmaceutical solutions and discuss various methods to improve the aqueous solubility of drug.

*Or*

Define formulation, discuss physicochemical properties of drug for preformulation study.

5. Attempt any *four* : [12]
- (a) Discuss formulation of artificial syrup.
  - (b) Discuss alternative solution method for preparation of aromatic water.
  - (c) Differentiate between quality control and quality assurance.
  - (d) Discuss formulation and use of enema.
  - (e) Write importance of stability study in formulation development.

- (f) Why are excipients are used along with drug to formulate dosage form ?
- (g) Explain the different preservatives used in pharmaceuticals.

6. Write short notes on (any *two*) : [08]

- (a) cGMP
- (b) Colours and Flavours
- (c) Quality control tests for solution
- (d) Polymorphism.