

Exam. Code: 431  
Sub. Code: 2954

1125

M.Sc. (Applied Chemistry / Pharmaceutical) First Semester  
Paper – 104: Introduction to Pharmaceutical Science

Max. Marks: 60

Time allowed: 3 Hours

**NOTE:** Attempt five questions in all, including Question No. 1 which is compulsory and selecting one question from each Unit.

x-x-x

- Q.1 Define or elaborate the following with suitable example (2 × 6)
- a) Ethics of pharmacy
  - b) Tinctures
  - c) Quality control testing
  - d) Grading of powder
  - e) Scope of pharmacy profession
  - f) Oleoresins

Unit I

(6,6)

- Q.2 Discuss the following
- a) Enumerate different dosage forms and their need with the help of suitable example.
  - b) Discuss historical events for the development of pharmacy profession from middle ages to current era
- Q.3 Write a note on the following (6,6)
- a) Pharmaceutical ingredients with suitable example
  - b) Official compendia

Unit II

- Q.4 a) Define maceration. Differentiate between modified and multiple maceration (6,6)  
b) What is principle of percolation? Describe briefly the process of percolation with the help of a suitable diagram. (12)
- Q.5 Enumerate different methods of extraction. Discuss various factors affecting choice of an extraction process (6,6)

Unit III

- Q.6 a) What are aromatic waters. Discuss two methods of preparation of aromatic water with the help of suitable example. (6,6)  
b) What are syrups. Describe various methods of preparation of syrup (6,6)
- Q.7 Discuss the following
- a) What are tinctures? Discuss briefly the maceration (Process M) as a method of its preparation
  - b) Discuss in details various methods of purifying water

Unit IV

(6,6)

- Q.8 Discuss the following
- a) Differentiate between empirical and metric system of weights and volume with the help of suitable example
  - b) Write a note on various methods of allegation with suitable example (6,6)

- Q.9 Write a note on the following
- a) Bulk powders
  - b) Standards for powders

x-x-x