Exam Code: 0431
Sub. Code: 3444

2031

M.Sc. (Applied Chemistry/Pharmaceutical)

First Semester

Paper – 104: Introduction to Pharmaceutical Sciences

Time allowed: 3 Hours Max. Marks: 60

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

x-x-x

I. Write a brief note on the following:-

a) Write a brief note on Active Pharmaceutical Ingredient with a suitable example.

b) What is tincture? Briefly describe a general method for the preparation of tincture.

c) What is the difference between infusion and decoction? Explain with appropriate example.

d) Write a brief note on aromatic waters.

e) Explain the principle of reverse osmosis.

f) Explain the term practical equivalents. (6x2)

UNIT – I

II. What is drug compendia? List different official and non-official compendia and briefly explain their contents. (12)

III. Define dosage form. List various types of dosage forms and explain their classification. (12)

UNIT – II

IV. a) Explain the mechanism of extraction, factors affecting the extraction process and the ideal properties of the solvents to be used for the extraction process.

b) Describe the functioning and applications of the Soxhiet extractor. (2x6)

V. What is maceration and percolation? Describe the different types and their general processes along with their merits and demerits. (12)

P.T.O.

UNIT – III

VI. a) What are the advantages and disadvantages of the liquid dosage forms?

b) Write a note on and differentiate between lotions and liniments. (2x6)

VII. a) Write a note on and differentiate between mouth washes and gargles.

b) Describe the universal quality control tests for pharmaceutical oral liquid preparations. (2x6)

UNIT – IV

VIII. a) Describe the operation and principle of ball mill and fluid energy mill.

b) Explain the imperial and the metric system of measurements. (2x6)

IX. a) Explain the Alligation Method in Pharmaceutical Practice.

b) Explain various different methods for the particle size measurement. (2x6)

x-x-x