UG Odd Semester (CBCS) Exam., December—2016

PHARMACEUTICAL SCIENCE

(1st Semester)

Course No. : BPH–104 (C)

(General Pharmacy)

Full Marks : 75
Pass Marks : 30

Time : 3 hours

The figures in the margin indicate full marks for the questions

Answer **five** questions, taking **one** from each Unit

UNIT—I

1. What is pharmacy? Describe the importance of pharmacopoeia. Write the developments of Indian pharmacopoeia.   1+5+9=15

2. Write notes on the following :   7½+7½=15

   (a) International pharmacopoeia

   (b) Extra pharmacopoeia

(2)

UNIT—II

3. *(a)* Describe the different formulation components of tablets with examples.   10

   (b) Write a short note on surfactants.   5

4. *(a)* What are the different organoleptic pharmaceutical additives used in the formulation of dosage forms?   7

   (b) Write short notes on emulsion and suspension.   4+4=8

UNIT—III

5. Describe the preparation and applications of flexible collodions. How will you prepare and store aromatic spirit of ammonia IP? Briefly write the different methods of preparing aromatic waters.   8+5+2=15

6. Write notes on any *two* of the following :   7½×2=15

   (a) Water for injection

   (b) Purified water

   (c) Distilled water

(**3**)

UNIT—IV

7. What are ideal and real solutions? Write a note on colligative properties. Explain Debye-Hückel theory.   4+6+5=15

8. Write notes on the following :   7½+7½=15

(a) Maceration

(b) Percolation

UNIT—V

9. *(a)* What are buffer and buffer capacity? Write the preparation of any one buffered isotonic solution.   4+4=8

(b) What is the significance and application of Henderson-Hasselbalch equation?   7

10. *(a)* Describe the different methods of adjusting tonicity in detail.   12

(b) Explain isotonic, hypotonic and hypertonic solutions.   3

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