

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

## PHARMACEUTICAL SCIENCE

( 1st Semester )

Course No. : BPHCC-109

( General Pharmacy )

Full Marks : 70

Pass Marks : 28

Time : 3 hours

*The figures in the margin indicate full marks  
for the questions*Answer **five** questions, selecting **one**  
from each Unit

## UNIT—I

1. (a) What is pharmacy? Describe the development of pharmacy from the pre-historic period.
- (b) Describe the development of British Pharmacopoeia. 8+6=14
2. (a) What is Pharmacopoeia? Explain its role in maintaining the standard of drugs in a country.
- (b) Describe the development of Indian Pharmacopoeia. 6+8=14

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( Turn Over )

## UNIT—II

3. Write brief notes on the following pharmaceutical dosage forms : 5+5+4=14
  - (a) Tablets
  - (b) Suspensions
  - (c) Emulsions
4. (a) What are pharmaceutical additives? Discuss and classify the different organoleptic pharmaceutical additives used in the formulation of dosage forms with suitable examples.
- (b) Write a note on surfactants and their application in pharmacy. (2+8)+4=14

## UNIT—III

5. (a) Define aromatic waters. Write the different methods available for preparation of aromatic waters. Discuss the method of preparation, storage and use of aromatic spirit of Ammonia IP.
- (b) Write a note on pharmaceutical preparation of flexible collodions with their applications. (2+6)+6=14

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( Continued )

( 3 )

6. What are pharmaceutical waters? Write the principles and methods of preparation of the following :  $2+12=14$
- (a) Water for injection
  - (b) Distilled water
  - (c) Double distilled water

UNIT—IV

7. (a) What are the different factors affecting the choice of extraction process?
- (b) Describe the method of extraction by percolation.  $9+5=14$
8. Write notes on any *two* of the following :  $7 \times 2 = 14$
- (a) Infusions
  - (b) Tinctures and decoctions
  - (c) Soft and dry extracts

UNIT—V

9. What are buffers? Explain buffer capacity. Describe the different buffers in pharmaceutical and biological systems.  $1+4+9=14$

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10. (a) What are hypotonic and hypertonic solutions? Explain their effect on cells.
- (b) Describe the different methods of adjusting toxicity.  $2+12=14$

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