

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

## PHARMACEUTICAL SCIENCE

( 3rd Semester )

Course No. : BPH-305 (C)

( Pharmacognosy—I )

*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. (a) Define the following terms : 3×4=12
- (i) Pharmacognosy
- (ii) Umur-e-tabia
- (iii) Siddha
- (iv) Ayurveda
- (b) Differentiate between organized and unorganized drugs. 3

2. (a) Discuss critically the importance of 'Ayurvedic medicine' and 'Aromatherapy'. 4+4=8
- (b) What are the different sources of natural drugs? Discuss each source with example. 3+4=7

## UNIT—II

3. (a) How do you classify the natural drugs on different system? 3
- (b) Write short notes on the following : 3×4=12
- (i) Phylogeny
- (ii) Chemical classification
- (iii) Macroscopical classification
- (iv) Alphabetical classification
4. Describe microscopical and pharmacological classification of crude drugs including their significance. 7½+7½=15

( 3 )

UNIT—III

5. (a) What are the quality control parameters? 3
- (b) What do you mean by adulteration of crude drugs? 3
- (c) Discuss critically the different types of adulteration with examples. 9
6. (a) How is TLC used to evaluate the quality of crude drugs? 3
- (b) Write short notes on the following : 3+3=6
- (i) Organoleptic evaluation
- (ii) Biological evaluation
- (c) What are the secondary metabolites? Outline the production of any two secondary metabolites of plant origin schematically. 3+3=6

UNIT—IV

7. Define lipids. Mention three lipid-based drugs derived from natural sources. Enumerate the pharmacognostic study of those drugs.  $1\frac{1}{2}+3+10\frac{1}{2}=15$

( 4 )

8. (a) Mention one drug used as antileprotic agent. Describe its chemical constituents and biological source. 1+5=6
- (b) Mention one lipid drug used as anti-ricket and memory enhancers. Specify the chemical compounds responsible for such activity. 1+2=3
- (c) What is 'xerophthalmia'? Which lipid drug is used for the treatment of such pathological syndrome? How do you prepare this oil? Mention its biological source. 2+1+2+1=6

UNIT—V

9. Write short notes on the following : 5×3=15
- (a) Honey
- (b) Tragacanth
- (c) Agar
10. Define carbohydrate. Write four names of carbohydrate-derived natural drugs. Describe pharmacognostical study of any two of them. 3+2+10=15

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