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

PHARMACEUTICAL SCIENCE

(3rd Semester)

Course No. : BPHCC–305

(Pharmacognosy—I)

Full Marks : 70
Pass Marks : 28

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 : 3×2=6

(i) Pharmacognosy

(ii) Ayurveda

(b) How is modern pharmacognosy originated from traditional concepts? 4

(c) Explain the correlation of modern pharmacognosy with botany and agriculture. 4

2. *(a)* Differentiate between organized and unorganized drugs. 6

(b) What are the different sources of natural drugs? Discuss each source with examples. 4+4=8

UNIT—II

3. *(a)* Enumerate the general objectives of alphabetical, chemical and biological classifications. 6

(b) Write short notes on the following : 4×2=8

(i) Phylogeny

(ii) Chemotaxonomical classification

4. Describe morphological and therapeutical classifications of crude drugs including their significance. 7+7=14

UNIT—IV

5. *(a)* What do you mean by 'adulterants'? 3

(b) Classify different types of adulteration with examples. 5

(c) How do you detect adulteration in herbal samples by chemical and biological evaluations? 3+3=6

6. *(a)* Write a short note on 'physical evaluation'. 6

(b) Enlist primary and secondary metabolites of phyto-origin. Outline the mevalonic acid pathway schematically for the production of secondary metabolites. 5+3=8

UNIT—IV

7. What is lipids? Classify them. Mention three lipid-based drugs derived from natural sources. Enumerate the pharmacognostic study of them. 1½+2½+3+7=14

8. *(a)* Mention one natural drug used as absorption enhancer. Describe its biological source and chemical constituents. 1+4=5

(b) Mention one lipid drug used as source of vitamins. Enumerate its biological sources, chemical constituents and physical standards. 1+6=7

(c) Describe the use of hydrocorpus oil. 2

UNIT—V

9. Write short notes on the following : 5+5+4=14

(a) Isabgol

(b) Tragacanth

(c) Pectin

10. Write the definition of 'carbohydrate'. Classify them. Write four names of carbohydrate-derived natural drugs. Describe the pharmacognostic study of any one of them. Enumerate the utility of natural honey. 3+2+2+4+3=14

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