

[Total No. of Questions - 9] [Total No. of Printed Pages - 2]  
(2123)

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**B. Pharmacy 1st Semester Examination**

**Pharmacognosy-I (O.S.)**

**HBP-107**

**Time : 3 Hours**

**Max. Marks : 80**

*The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.*

**Note :** Candidates are required to attempt five questions in all selecting one question from each of the Section A, B, C, D and all sub-parts of Section E.

**SECTION - A**

1. What are the sources of natural drugs, give examples of each sources. Discuss in detail about the marine sources of drugs. **(16)**
2. How the drugs of natural origin are classified, give examples of each class. Discuss in detail about morphological classification of natural drugs. **(16)**

**SECTION - B**

3. Write the taxonomical features of the family: Umbelliferae and Papaveraceae. **(16)**
4. Write the taxonomical features of medicinal plants belonging to the families Leguminosae, Rubiaceae and Solanaceae. **(16)**

**SECTION - C**

5. What are the factors affecting cultivation of medicinal plants? Briefly describe with examples. List out natural pest control agents with their advantages. **(16)**

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**[P.T.O.]**

6. Define adulteration. What are the various types of adulteration? How do you detect the adulterants? Briefly describe with examples. (16)

#### SECTION - D

7. Write the synonym, biological nomenclature, active chemical constituents and therapeutic uses of four crude drugs of the followings:  
(a) Agar (b) Honey (c) Isabgol (d) Castor oil (e) Linseed oil (f) Hydnocarpus oil. (16)
8. (a) Define alkaloid. Write its solubility parameters and classify alkaloids with examples.  
(b) Write the details of pharmacognosy of Guar gum. (16)

#### SECTION - E

9. (a) Define pharmacognosy.  
(b) Give four examples of bark drugs obtained from natural sources.  
(c) Give two examples of medicinal plants belonging to the family Leguminosae and write its uses.  
(d) What are morphactins? Give two examples.  
(e) Define polyploidy and mutation.  
(f) How medicinal oils are analysed for its purity, answer with examples.  
(g) How C-glycosides and O-Glycosides are formed, give at least one example of each.  
(h) Write the biological source and therapeutic uses of cod-liver oil. (2×8=16)