



**PH-1612050701020500** Seat No. \_\_\_\_\_

**Master of Pharmacy Management (Sem. II) (CBCS)**

**Examination**

**July – 2018**

**Pharmacognosy-II**

Time : 3 Hours]

[Total Marks : 80]

**Instructions :**

- (1) Attempt three questions from each section.
- (2) Questions 1 and 5 are compulsory.
- (3) Figure to the right indicates full marks for the respective question.

**SECTION-I**

|          |  |           |
|----------|--|-----------|
| <b>1</b> | Explain the following terms : (Any SEVEN)  | <b>14</b> |
| (1)      | Stomatal index and stomatal number   |           |
| (2)      | Palisade ratio   |           |
| (3)      | Carbohydrate   |           |
| (4)      | Collateral and bicollateral vascular bundle  |           |
| (5)      | Crude drugs  |           |
| (6)      | Poly houses  |           |
| (7)      | Fruit  |           |
| (8)      | Heart wood and sap wood  |           |
| (9)      | Bark   |           |
| (10)     | Hybridization.   |           |
| <b>2</b> | (A) Describe in brief marine and animal as sources of crude drugs and differentiate between organized and unorganized crude drugs. | <b>7</b>  |
|          | (B) Discuss function of root and modification of root.   | <b>6</b>  |
| <b>3</b> | (1) Discuss function of stem and underground modification of stem.   | <b>7</b>  |
|          | (2) Define Fruit. Write the classification of it with examples.  | <b>6</b>  |

4 (1) Define evaluation of crude drugs. Explain in detail microscopic evaluation of crude drugs. 7  
(2) Write synonym, Biological source, Chemical constituents and uses of Starch. 6

## SECTION-II

5 Answer the following questions : (Any TWO) 14  
(1) Define leaf. Write functions of leaf. Give types of apex and margin of the leaf with diagram.  
(2) Define adultration. Discuss different methods of adultration with examples.  
(3) Explain factors affecting cultivation of crude drugs. Give significance of factors on cultivation of crude drugs.

6 (1) Give detailed account on plant hormones with examples. 7  
(2) Write Synonym, Biological source, Chemical constituents and Uses of Isapgol seed. 6

7 (1) What are gums ? Give detailed account on Acacia, Tragacanth and Guar gum. 7  
(2) Give B.S., Chemical constituents, identification tests, method of preparation and uses of honey. 6

8 (1) Define stomata. Discuss its function and types. 7  
(2) Define plant tissue. classify it and discuss simple permanent tissues with its function. 6