HZ-1612050701020500 Seat No. _____

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

June / July – 2017

Pharmacognosy – I

Time : **3** Hours] [Total Marks : **80**

Instructions : (1) Answer and tie both the sections separately.
(2) Figures to the right indicate marks.
(3) Answer any three questions from each section.
(4) Question no.1 and Question no.5 are compulsory.
(5) Draw neat and clean diagrams as required.

SECTION – I

1 Answer any **SEVEN** out of TEN : **14**

(1) Differentiate root and stem.
(2) Give biological source of guar gum.
(3) Draw well labelled diagram of region of root.
(4) Draw different type of apex of leaf.
(5) Explain the term dorsiventral leaf.
(6) Give general chemical test for carbohydrates.
(7) Differentiate between organised and unorganised drug.
(8) Differentiate parenchyma and sclerenchyma.
(9) Write about the different types of fracture in bark.
(10) Give biological source and method of preparation of Honey.

2 Answer the following questions :

(1) Describe in detail about essential whorls of flower. **7**
(2) Define inflorescence. Explain in detail about recemose type of inflorescence. **6**

3 Answer the following questions :

(1) Differentiate followings : **7**

(a) Xylem and Phloem

(b) Monocot stem and dicot stem

(2) Define drug : Write in detail about animal as a source of drug. **6**

4 Answer the following questions :

(1) Define Pharmacognosy. Describe in brief History and Scope of Pharmacognosy. **7**

(2) Define seed. Give different types of seed. Explain in detail about appendages of seed. **6**

SECTION – II

5 Answer any **two** out of THREE : **14**

(1) Discuss in detail about factor affectin cultivation and collection of crude drug.

(2) Write botanical source, chemical constituents and uses of followings :

(i) Isabgol

(ii) Tragacanth

(iii) Starch

(3) Define adventitious root. Give the modification of adventitious root for vital functions.

6 Answer the following questions :

(1) Define adulteration. Discuss chemical and physical evaluation of drugs. **7**

(2) Explain in detail about polyploidy, mutation and hybridization. **6**

7 Answer the following questions :

(1) Discuss the pharmacological and chemo taxonomical classification of crude drug. **7**

(2) Describe the biological sources, preparation and pharmaceutical uses of Acacia and sterculia gum **6**

8 Answer the following questions :

(1) Draw well labelled diagram of typical leaf. Describe in detail about venation of leaf. **7**

(2) Define stem. Write in detail about underground stem modification. **6**