



HU-M2011116

Seat No. _____

M. Pharm. (Sem. II) (CBCS) Examination

June / July - 2017

Industrial Pharmacognosy

(Core - IV)

Time : 3 Hours]

[Total Marks : 80

- Instructions :**
- (1) Answer any three from each section.
 - (2) Question 1 and 5 are compulsory.
 - (3) Figure to the right indicate marks.
 - (4) Draw neat and clean diagram when required.

SECTION - I

- 1** Answer any seven out of given ten question : **14**
1. Define GMP.
 2. Discuss climatic condition for peppermint cultivation
 3. Define Vati and Gutica
 - .
 4. Differentiate Churna and kwath churna
 5. Use of gelatin in pharmaceutical formulations.
 6. How umbelliferous fruits are cultivated ?
 7. Give any two examples of marine toxins.
 8. What is the purpose of Ayurveda ? And according to Ayurveda what is disease ?
 9. Why cultivation of plant is required ?
 10. Define Absorbent cotton and MCC.
- 2** Answer the following :
1. Discuss GMP part I for Ayurvedic, Siddha and Unani Medicines as per D and C act. **7**
 2. Discuss equipment requirement for manufacturing of plant extracts. **6**

- 3** Answer the following :
1. Write commercial cultivation technology for guggul and ginger. **7**
 2. How harvesting care should be taken in case of digitalis, aloe and belladonna ? **6**
- 4** Answer the following :
1. Differentiate gum and mucilage and describe the importance of gums in pharmaceutical formulations. **7**
 2. Discuss recent assay methods for atropine and curcumin. **6**
- SECTION - II**
- 5** Answer any two out of three questions : **14**
1. Write note on traditionally fermented medicines.
 2. Discuss Basic principles of Ayurvedic system of medicine.
 3. Why marine is an area of interest ? Discuss the difficulties in marine drug discovery.
- 6** Answer the following :
1. What are Bhasmas ? Give their method of preparation. What evaluation parameters are used to keep check on their purity ? **7**
 2. Explain method of preparation and characteristics of Avaleha. **6**
- 7** Answer the following :
1. Write note on marine antimicrobial and anti-cancer drugs **7**
 2. Write note on papain and pectin as a Pharmaceutical aids. **6**
- 8** Answer the following :
1. Discuss any three physico chemical properties in formulation development. **7**
 2. Discuss the methods for sennoside estimation in senna formulations. **6**