

Roll No. 

--	--	--	--	--	--	--	--	--	--

Total No. of Pages : 02

Total No. of Questions : 10

**B.Pharma (2011 to 2016) (Sem.-5)****PHARMACOGNOSY-IV****Subject Code : BPHM-504****M.Code : 70430****Time : 3 Hrs.****Max. Marks : 80****INSTRUCTION TO CANDIDATES :**

1. **SECTION-A** is **COMPULSORY** consisting of **FIFTEEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **FIVE** questions carrying **FIVE** marks each and students has to attempt any **FOUR** questions.
3. **SECTION-C** contains **FOUR** questions carrying **TEN** marks each and students has to attempt any **THREE** questions.

**SECTION-A****1 Answer briefly :**

- a. Write down biological source and chemical constituents of Kurchi bark.
- b. What are Quassinoids?
- c. Write down chemical constituents and uses of Ephedra.
- d. Classify chromatographic techniques.
- e. Give biological sources and uses of Pepsin.
- f. Differentiate between normal phase and reverse phase chromatography.
- g. Write down biological source and chemical constituents of Lobelia.
- h. Give structure and uses of Quinine.
- i. Name various detectors used in Gas Chromatography.
- j. Give specific chemical tests of Ergot.
- k. Give structure and uses of Hyoscyamine.



1. Write down biological sources and uses of Solanum.
- m. Give chemical constituents of Withania.
- n. Write biological sources of any two plant sweeteners.
- o. Give identification tests of Diastase.

#### SECTION-B

2. Give pharmacognostic account on Rauwolfia.
3. Write down biological source, chemical constituents, uses and specific chemical tests of Coffee.
4. Discuss role of medicinal and aromatic plants in National economy.
5. Explain method of cultivation, collection and processing of Tobacco.
6. Write a detailed note on Papain.

#### SECTION-C

7. Describe biosynthetic pathway of Glycosides.
8. Write notes on :
  - a. Plant bitters
  - b. Droplet counter current chromatography
9. Describe applications of HPLC and HPTLC in evaluation of herbal drugs.
10. Give detailed pharmacognostic account on Opium.

**NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.**