

Paper Id: 

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**B. PHARM**  
**(SEM-V) THEORY EXAMINATION 2019-20**  
**PHARMACOGNOSY II – Theory**

*Time: 3 Hours**Total Marks: 75***Note:** 1. Attempt all Sections. If require any missing data; then choose suitably.

**SECTION A**

1. **Attempt *all* questions in brief.** **10 x 2 = 20**
- a. Enlist general chemical tests for terpenoids.
  - b. Write specific identification test for caffeine.
  - c. Enlist therapeutic and commercial applications of senna and vinca.
  - d. Write applications of chromatography in the identification of crude drugs.
  - e. What are applications of amino acid pathway?
  - f. Enlist biosources of catechu and Asafoetida.
  - g. Write composition and therapeutic uses of gentian and benzoin
  - h. Write a short note on estimation of sennosides.
  - i. Enlist various different species of senna.
  - j. Write a short note on chemical tests for resins.

**SECTION B**

2. **Attempt any *two* parts of the following:** **2 x 10 = 20**
- a. Write about application of Chromatographic techniques in the isolation, purification and identification of crude drugs.
  - b. Industrial production, estimation and utilization of caffeine and forskolin
  - c. Isolation, Identification and Analysis of Menthol.

**SECTION C**

3. **Attempt any *five* parts of the following:** **5 x 7 = 35**
- a. Write a detailed note on Shikimic Acid Pathway.
  - b. Discuss chemistry and commercial applications of Lignans.
  - c. Describe isolation and Analysis of Curcuma.
  - d. Describe Industrial production and estimation of Artemisinin.
  - e. Application of HPTLC on the isolation and identification of crude drugs.
  - f. Write composition, chemical class and therapeutic uses of pterocarpus.
  - g. Discuss about isolation of Rutin and Citral.