Roll No:

# B PHARM
## (SEM V) THEORY EXAMINATION 2020-21
## PHARMACOGNOSY AND PHYTOCHEMISTRY -II

*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. | General chemical tests for terpenoids. |
| b. | Specific identification test for caffeine. |
| c. | Therapeutic and commercial applications of senna and vinca. |
| d. | Applications of chromatography in the identification of crude drugs. |
| e. | Applications of amino acid pathway. |
| f. | Biosources of catechu and Asafoetida. |
| g. | Composition and therapeutic uses of gentian and benzoin |
| h. | Estimation of sennosides. |
| i. | Different species of senna. |
| j. | Chemical tests for resins. |

## SECTION B

**2. Attempt any *two* parts of the following:** **2 x 10 = 20**

| | |
|---|---|
| a. | 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:** **7 x 5 = 35**

| | |
|---|---|
| a. | Shikimic Acid Pathway. |
| b. | Pharmacognostical study of Lignans. |
| c. | Isolation and Analysis of Curcuma. |
| d. | Industrial production and estimation of Artimisinin. |
| e. | Application of HPTLC on the isolation and identification of crude drugs. |
| f. | Composition, chemical class and therapeutic uses of pterocarpus. |
| g. | Isolation of Rutin and Citral. |

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