PAPER ID-411071

Subject Code: RPH530

Roll No: | | | | | | | | | | | | | |

**B PHARM**

**(SEM-V) THEORY EXAMINATION 2021-22**

**PHARMACOGNOSY-III**

***Time: 3 Hours*** ***Total Marks: 70***

**Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.

**SECTION A**

**1. Attempt *all* questions in brief. 2 x 7 = 14**

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|---|---|
| a. | Define extraction. Enlist various methods used for extraction. |
| b. | Write chemical test of flavonoids. |
| c. | Explain biological source and uses of Black catechu. |
| d. | Write chemical test used to identify anthraquinone glycosides. |
| e. | Define plants bitters and sweeteners with example. |
| f. | Differentiate condensed and hydrolysable tannins. |
| g. | What do you mean by indigenous drugs? |

**SECTION B**

**2. Attempt any *three* of the following: 7 x 3 = 21**

| | |
|---|---|
| a. | Define alkaloid and classify alkaloids with suitable example. Describe the identification test of alkaloids. |
| b. | Write biological sources, macroscopic and microscopic features, chemical constituents, uses, and specific chemical tests of Senna. |
| c. | Define and classify tannins. Discuss pharmacognostic studies of Arjuna. |
| d. | Write biological source, chemical nature and therapeutic uses of Stevioside and Chiratin. |
| e. | Write common vernacular name, biological source, morphology, chemical constituents and uses of Amla **or** Shatavari |

**SECTION C**

**3. Attempt any *one* part of the following: 7 x 1 = 7**

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|---|---|
| (a) | Discuss Super critical fluid extraction method in detail. |
| (b) | Define and classify glycosides. Describe isolation, properties and qualitative chemical test of cardiac and saponin glycosides. |

**4. Attempt any *one* part of the following: 7 x 1 = 7**

| | |
|---|---|
| (a) | Discuss biological source chemical constituents uses and chemical test of Squill. |
| (b) | Write notes on a) Ginseng b) Aloe. |

**5. Attempt any *one* part of the following: 7 x 1 = 7**

| | |
|---|---|
| (a) | Explain physicochemical properties and chemical test of tannins in detail with suitable example. |
| (b) | Write short notes on study of a) Baheda b) Pale catechu. |

**6. Attempt any *one* part of the following: 7 x 1 = 7**

| | |
|---|---|
| (a) | Write biological sources, chemical natures and uses of Thaumatin and Naringin. |
| (b) | Explain Rebaudioside and Neohesperidine in detail. |

**7. Attempt any *one* part of the following: 7 x 1 = 7**

| | |
|---|---|
| (a) | Write notes on a) Brahmi b) Shankhpushpi. |
| (b) | Explain biological sources, active constituents and pharmacological uses of Saffron and Methi. |