

**B. PHARM.**  
**(SEM V) THEORY EXAMINATION 2018-19**  
**PHARMACOGNOSY III**

**Time: 3 Hours**

**Total Marks: 70**

**Note:** Attempt all Sections.

**SECTION A**

- 1. Attempt *all* questions in brief. 2 x 7 = 14**
- a. Write down in detail about identification tests for Alkaloids.
  - b. Chemical tests of Saponin glycosides.
  - c. Give the examples of Isoquinolenes and Imidazole alkaloids.
  - d. How to differentiate C- glycosides from O- glycosides.
  - e. Biological source and family of Shankhpuspi and Gokhru.
  - f. Write a note on gold-beater skin test.
  - g. Mentioned factors affecting extraction of botanicals.

**SECTION B**

- 2. Attempt any *three* of the following: 7 x 3 = 21**
- a. Write down the complete Pharmacognosy of Aloe with their identification tests.
  - b. Write down the Biological Source, macroscopic, microscopic characters, chemical constituents & uses of Digitalis leaves.
  - c. Define extraction? Write a note of successive solvent extraction of crude drugs by soxhlet extractor.
  - d. Discuss in detail on Cynogenetic Glycosides
  - e. Mentioned the importance of Punarnava and Palash on Indian System of Medicine.

## SECTION C

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

- (a) What is alkaloid? Classify the alkaloids according to chemical structure along with suitable examples.
- (b) Write a note on Glycosides? Discuss in details about Flavonol glycosides.

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

- (a) Write a note on cardiac Glycosides? Support your answer with their chemical tests.
- (b) Write a note on Supercritical fluid extraction techniques. Explain with diagram.

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

- (a) A brief note on Plant sweeteners? Classify and throw some light on important plant sweeteners.
- (b) Classify Plant Bitters. Give the properties and discuss in details with common examples.

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

- (a) Write down the properties of Tannins? Classify and support your answer with their chemical test.
- (b) Write a note on

I) Kantkari

II) Chirata

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

- (a) Differentiate pale catechu from black catechu. Explain in brief with their Chemical test.
- (b) Write a note on

I) Gokhru

II) Liquorice