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B PHARM
(SEM VI) THEORY EXAMINATION 2017-18
PHARMACOGNOSY-III

Time: 3 Hours

Total Marks: 100

Note: Attempt all Sections.

SECTION A

1. Attempt *all* questions in brief.

2 x10 = 20

- a. Write down in detail about identification tests for Alkaloids.
- b. Define True alkaloid, Proto-Alkaloid and Pseudo- Alkaloid with examples?
- c. Give the biological source and chemical constituents of a drug containing Bufadinolides.
- d. Give the biological source & uses of Gokhru?
- e. Chemical test for Flavanoids.
- f. Give the examples of Isoquinolenes and Imidazole alkaloids.
- g. Examples of nutritive & non-nutritive Plant sweetening agent?
- h. What is genin?
- i. How to differentiate C- glycosides from O- glycosides.
- j. Draw the structure and uses of Sennoside.

SECTION B

2. Attempt any *three* of the following:

10 x 3 = 30

- a. What is alkaloid? Classify the alkaloids according to chemical structure along with suitable examples.
- b. Classify Plant Bitters. Give the properties and discuss in details with common examples.
- c. Write a note on Cardinolides and bufadinolides? Explain with their chemical test.
- d. Mentioned the importance of Psoralea on Indian System of Medicine.
- e. Write down the Biological Source, macroscopic, microscopic characters, chemical constituents & uses of Digitalis leaves.

SECTION C

3. Attempt any *one* part of the following: 10 x 1 = 10

- (a) Define extraction? Classify the extraction techniques. Explain Successive Soxhlet extraction techniques with labeled diagram.
- (b) A brief note on Plant sweeteners? Classify and throw some light on important plant sweeteners.

4. Attempt any *one* part of the following: 10 x 1 = 10

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

5. Attempt any *one* part of the following: 10 x 1 = 10

- (a) Differentiate pale catechu from black catechu. Explain in brief with their Chemical test.
- (b) Give the biological source chemical constituent & uses of following drugs.

- I) Quassia
- II) Punernava

6. Attempt any *one* part of the following: 10 x 1 = 10

- (a) What are Flavanoids? Discuss in detail with their properties
- (b) Write in detail account on Pharmacognostical profile of Aloe.

7. Attempt any *one* part of the following: 10 x 1 = 10

- (a) Write a note on
 - I) Cynogenetic glycosides.
 - II) Leucoanthocynadins
- (b) Write down the Pharmacognostic details of following drugs.
 - I) Shankpuspi
 - II) Chirata