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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 Psoralia on Indian System of Medicine.
e. Write down the Biological Source, macroscopic, microscopic characters, chemical constituents & uses of Digitalis leaves.

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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) Shankhpuspi

II) Chirata

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