

Paper Id:

150506

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B. PHARM
(SEM-V) THEORY EXAMINATION 2019-20
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**
- a. Differentiate between cardenolides and bufadienolides.
 - b. Give the chemical test used to identify saponins.
 - c. What is Borntrager's test?
 - d. Give the Biological Source of Squill.
- a. Define pseudotannins.
 - b. What for plant bitters are used?
 - c. Give the important uses of Saffron.

SECTION B

- 2. Attempt any three of the following:** **7 x 3 = 21**
- a. Discuss in detail about the extraction and separation of phytoconstituents from fresh plant material.
 - b. Give the complete pharmacognosy of Digitalis.
 - c. Define and classify tannins with suitable examples. Discuss Official Source, chemical constituents and uses of Baheda.
 - d. What are the ideal characteristics of natural sweeteners? Give a detail account on Thaumatin.
 - e. Give the biological Source, important vernacular names, chemical constituents and uses of Gentian and Kantkari.

SECTION C

- 3. Attempt any one part of the following:** **7 x 1 = 7**
- (a) Classify glycosides with suitable examples. Give the chemical tests used to identify flavonoids, cyanogenetic glycosides and alkaloids present in plant extracts.
 - (b) What do you mean by phytochemical screening? How alkaloids are isolated from plant sources?
- 4. Attempt any one part of the following:** **7 x 1 = 7**
- (a) What are saponin glycosides? Write a short note on Dioscorea.
 - (b) Mention different chemical varieties of Aloe. Give the biological Source, cultivation collection, chemical constituents and uses of Aloe.
- 5. Attempt any one part of the following:** **7 x 1 = 7**
- (a) Describe briefly the chemistry and properties of tannins. How these are identified on the basis of chemical tests?
 - (b) How is Black Catechu differentiated from Pale Catechu? Describe the biological Source, chemical constituents, chemical tests and uses of Pale Catechu.
- 6. Attempt any one part of the following:** **7 x 1 = 7**
- (a) Discuss about various sweeteners of natural origin. Write in detail about stevioside.
 - (b) Write notes on limonin and naringin.
- 7. Attempt any one part of the following:** **7 x 1 = 7**
- (a) Give the official source, chemical constituents and pharmacology of Nagarmotha and Gokhru.
 - (b) Write the Common vernacular names, morphology, chemical constituents and uses of Gymnema and Methi.