Sub Code: RPH530

Paper Id: 150506 Roll No: | | | | | | | | | | | | | |

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.

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