Sub Code:BOP474

Paper Id: 150704 Roll No: | | | | | | | | | | | | | |

B. PHARM

(SEM-VII) THEORY EXAMINATION 2019-20

PHARMACOGNOSY-IV

Time: 3 Hours *Total Marks: 100*

Note: Attempt all sections. If require any missing data: then choose suitably.

SECTION A

1. Attempt all questions in brief. **(2X10=20)**

a. Define totipotency.
b. Name out two examples of Tropane alkaloids.
c. What is Vitali morin test?
d. What are the chemical constituents of cinchona?
e. What is the importance of plant tissue culture technique?
f. Write biological source of Pilocarpus.
g. What do you mean by Hairy root culture?
h. What steps are involved in HPTLC?
i. Write biological source and uses of Coffee.
j. What is the utilization of Calcium Sennosides?

SECTION B

2. Attempt any three of the following: **(10X3=30)**

a. What are Alkaloids? Classify them with suitable examples. Write their chemical test, uses and method of extraction.
b. Write biological source, macroscopical and microscopical characters, chemical constituents, uses, adulterant and chemical test of tropane alkaloid containing drug 'Datura'.
c. Write in detail about production and utilization of Podophyllotoxin.
d. What do you understand by Plant tissue culture technique? Write its application and type of culture in short.
e. What is HPTLC? Mention the various steps involved in HPTLC along with its importance in pharmacognosy.

SECTION C

3. Attempt any one part: **(10X1=10)**

a) What are the biological source, chemical constituent and uses of Tobacco and Belladona?
b) Write detailed pharmacognosy of Opium.

4. Attempt any one part: **(10X1=10)**

a) Write production and utilization of Isoquinoline alkaloids.
b) Write production and utilization of Diosgenin.

5. Attempt any one part: **(10X1=10)**

a) Describe detailed pharmacognosy of Pilocarpus.
b) Write biological source, chemical constituents and uses of Tea and Vasaka.

6. Attempt any one part: **(10X1=10)**

a) What factors influences the Plant tissue culture technique? Explain in detail.
b) Write in short about the pharmacognosy of Catharanthus.

7. Attempt any one part: **(10X1=10)**

a) What do you understand by herb drug interaction? Explain in brief.
b) What is the role of HPTLC in pharmacognosy? Explain in short.

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