

Paper Id:

150704

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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 Belladonna?
- 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.