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BPHARM
(SEM VII) THEORY EXAMINATION 2023-24
PHARMACOGNOSY-IV

TIME: 3 HRS**M.MARKS: 70****Note:** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A****1. Attempt all questions in brief.****2 x 7 = 14**

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| a. | Sketch the chemical structure of Nicotine. |
| b. | How will you infer whether the given sample of crude drug contains tropane alkaloids? |
| c. | Cite 2 examples of Alkaloidal amines. |
| d. | Draw the chemical structure of caffeine. |
| e. | Outline the significance of podophyllotoxins. |
| f. | Differentiate between callus culture and suspension culture. |
| g. | Infer the meaning of fingerprinting. |

SECTION B**2. Attempt any three of the following:****7 x 3 = 21**

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| a. | Mention the biological source, morphological characteristics, chemical constituents, and uses of Rauwolfia and Nux vomica. |
| b. | Inscribe the complete Pharmacognosy of a Steroidal alkaloid amine. |
| c. | Describe the production and utilization of Quinoline Alkaloids. |
| d. | Explicate the factors affecting Plant Tissue Culture. |
| e. | Discuss the herbal drug interactions. |

SECTION C**3. Attempt any one part of the following:****7 x 1 = 7**

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| a. | Prepare a pharmacognostic profile of Opium. |
| b. | Give the biological source, chemical constituents, and uses of (i) Lobelia (ii) Coca (iii) Datura (iv) Catharanthus |

4. Attempt any one part of the following:**7 x 1 = 7**

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| a. | Engrave a pharmacognostic monograph on Solanum. |
| b. | Portray the complete Pharmacognosy of Vasaka. |

5. Attempt any one part of the following:**7 x 1 = 7**

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| a. | Discuss the production and utilization of Diosgenin. |
| b. | Explain the production and utilization of calcium sennosides. |

6. Attempt any one part of the following:**7 x 1 = 7**

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| a. | Discuss the historical development of plant tissue culture. |
| b. | Describe the applications of plant tissue culture. |

7. Attempt any one part of the following:**7 x 1 = 7**

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| a. | Describe the Bioactive compounds enhancing the bioavailability. |
| b. | Explain the role of HPTLC in standardization of Herbal drugs. |