| Roll No. | Total No. of Pages : 02 |
|---|--------------------------------|
| Total No. of Questions:13 | |
| B.Pharma (Sem. | -5) |
| PHARMACOGNOSY AND PHYTOCH | IEMISTRY II-THEORY |
| Subject Code : BP5 | 04T |
| M.Code: 76789 | |
| Date of Examination : 20 | -12-2022 |
| Time:3 Hrs. | Max. Marks:75 |
| INSTRUCTIONS TO CANDIDATES : | |
| 1. SECTION-A is COMPULSORY consisting of TEl each. | N questions carrying TWO marks |

- 2. SECTION-B contains THREE questions carrying TEN marks each and student has to attempt any TWO questions.
- 3. SECTION-C contains NINE questions carrying FIVE marks each and student has to attempt any SEVEN questions.

SECTION-A

- 1. Write briefly :
 - a. Write down biological source and chemical constituents of RAUWOLFIA.
 - b. Write down chemical constituents and uses of LIQUORICE.
 - c. Write principles of paper chromatography.
 - d. Give therapeutic uses and commercial applications of GUGGUL.
 - e. Give specific chemical tests for identification of QUININE.
 - f. Write on industrial utilization of SENNOSIDES.
 - g. Give structure and uses of PODOPHYLLOTOXIN.
 - h. Differentiate between TLC and HPTLC.
 - i. Give applications of Spectroscopy in identification of crude drugs.
 - j. Enumerate radioactive isotopes utilized in investigation of Biogenetic studies.

SECTION-B

- 2. Give a detailed pharmacognostic account on OPIUM.
- 3. Describe Shikimic acid pathway in biogenesis of various secondary metabolites.
- 4. Explain industrial production, estimation and utilization of TAXOL.

SECTION-C

- 5. Describe Acetate malonate pathway.
- 6. Write a note on Gel Electrophoresis.
- 7. Describe applications of Gas chromatography in evaluation of herbal drugs.
- 8. Explain method of isolation and analysis of Curcumin.
- 9. Describe method of industrial production and estimation of Diosgenin.
- 10. Explain method of isolation and analysis of Rutin.
- 11. What are Iridoids? Give bioresources, chemical constituents and uses of Gentian.
- 12. Explain principle and applications of Supercritical fluid extraction technique.
- 13. Write a note on Cinnamon.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.