| | I No. Total No. of al No. of Questions : 06 | Pages : 1 |
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| Tim | M.Pharmacy (Pharmacogonosy) (2017 & Onwards) (Sen PHYTOCHEMISTRY Subject Code: MPG-103T M.Code: 74671 e: 3 Hrs. Max. N | n.–1) Marks: 75 |
| | ie . J III 3. III da. II | iaiks. 15 |
| 1. 2. | RUCTIONS TO CANDIDATES: Attempt any FIVE questions out of SIX questions. Each question carries FIFTEEN marks. | |
| 1. | (a) Explain the biosynthetic pathway, isolation and commercial importance | e of Berberine. (10) |
| | (b) Discuss the importance of radio tracer techniques in studying the pathways of secondary metabolites. | e biosynthetic (5) |
| 2. | (a) Write a note on the discovery and development of Artemisinin as a user | ful compound. (7) |
| | (b) You are given a crude drug for extraction. What will be the various p will govern the selection of solvent and extraction procedure? Also c steps involved in extraction process of a crude drug. | |
| 3. | (a) Elaborate in detail on microwave assisted extraction highlighting instrumentation and application in herbal drug industry. | its principle (8) |
| | (b) Explain the isolation and biosynthetic pathway of Taxol. | (7) |
| 4. | Explain in detail the role of HPTLC in characterization of herbal extracts various hyphenations of HPTLC that are being used recently. | s. Also discuss (15) |
| 5. | Explain the structure elucidation of Citral and Glycyrrhizin using IR, NMR | and MS.(15) |
| 6. | Write a note on: | |
| | (a) CCCET | (5) |
| | (b) Role of LC/MS in finger printing of herbal drug extracts | (5) |
| | (c) Phases of clinical trials for herbal drugs | (5) |

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.

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