| QP CODE: 211329 | Reg. No: |
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| Second Semester M. Pharm Degree Regular/Supplementary Examinations May 2022 | |
| M.Pharm (Pharmaceutical Analysis) | |
| Paper I: Advanced Instrumental Analysis (MPA 201T) | |
| Time: 3 Hours | Total Marks: 75 |
| Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space Answer all parts of a single question together • Leave sufficient space between answers Draw table/diagrams/flow charts wherever necessary | |
| Essays | (3x10=30) |
| 1. Explain the principle, instrumentation and | detectors used in HPLC |
| 2. Explain the principle, instrumentation and | applications of NMR spectroscopy |
| 3. Explain in detail about super critical fluid | chromatography |
| Short Notes (9x5=45) | |
| 4. Enumerate the GC detectors and explain | any two detectors |
| 5. Ion pair chromatography | |
| 6. NOESY and COSY | |
| 7. Capillary electrophoresis | |
| 8. 1 D and 2 D NMR | |
| 9. Mass analyzers | |
| 10.LC MS | |
| 11.Principle and applications of HPTLC | |
| 12. Chemical shift and factors influencing chemical shift | |
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