

Total No. of Questions :8]

[Total No. of Printed Pages : 1

Roll No

MPY-PCA (B)
M.Pharmacy III Semester Examination, June 2020
Bioanalytical Methods and Metabolite Profiling (Elective)

Time : Three Hours

Maximum Marks: 70

Note : i) Attempt any five questions.

ii) All questions carry equal marks.

1. a) Discuss principle, instrumentation and application of HPLC-RFD.
b) Discuss bioanalytical method development and validation.
2. What is impact of metabolic information in Investigational New Drug application (IND) and New Drug Application (NDA).
3. Explain the various analytical techniques for improving metabolite detection and identification.
4. a) Explain metabolite structure determination from known biotransformations.
b) Write the detailed procedure of *In-vitro* drug metabolism.
5. Explain in detail following:
 - a) Stop-flow and dynamic-flow LC-RFD-MS.
 - b) Profiling of radiolabelled metabolites in plasma.
6. Discuss principle, instrumentation and application of UPLC in radio detection.
7. Write about determination of structure and formation pathway of sequential metabolites.
8. Write short notes on:
 - a) Cytochrome P-450 inhibition in drug discovery
 - b) ADME studies
