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Roll No

MPY-PCH(D)

M.Pharmacy III Semester Examination, June 2020

Bioanalysis

(Elective)

Time : Three Hours

Maximum Marks : 70

- Note:** i) Attempt any five questions.
ii) All questions carry equal marks.

1. Define bioanalysis and discuss the role of B.P.D.M. in drug discovery and drug development.
2. Give in detail, how the pH environment affects drug absorption and distribution as well as chirality.
3. Write the classes of chromatographic techniques. Discuss the modes of liquid chromatography and detectors used in HPLC.
4. Enumerate the steps involved in the identification of drug metabolites in biological fluids through mass spectroscopy. Discuss the phase I & phase II in mass spectroscopy.
5. Write the use of subcellular fractions hepatocytes and liver slices for investigating drug metabolism. Discuss the advantages and disadvantages of in-vitro system to study drug metabolism.
6. Write short notes on any two of the following:
 - a) Bioanalytical automation strategy.
 - b) High-throughout bioanalysis.
 - c) Developing an LC-MS assay method.
7. Write short notes on any two of the following:
 - a) Cell membrane and its implications for drug deposition.
 - b) Sample preparation techniques in bioanalysis.
 - c) Drug interactions in in-vitro system.
8. Write short notes on any two of the following:
 - a) NMR spectroscopy
 - b) Regulatory guidelines for bioanalytical method development.
 - c) Column used in HPLC

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