Code No. 13180/PCI

FACULTY OF PHARMACY

M. Pharmacy (Pharmaceutical Analysis) II-Semester (PCI) (Suppl.) Examination, February 2019

Subject: Modern Bio Analytical Techniques

Time: 3 Hrs **Max. Marks: 75**

Note: Answer any five questions. All questions carry equal marks.

1	Write abt the following sample prepar ation techniques. (a) Solid phase extraction (b) Liquid Liquid extraction (c) Explain the Bioanalytical method validation as per USFDA guidelines.	6 9
2	(a) Discuss abt Biopharmaceutical factors affecting drug bioavailability. (b) Write the Biopharmaceutics classification system defined by FDA.	10 5
3	(a) What is enzyme inhibition? Discuss abt drug interactions due to enzyme inhibition with examples. (b) Discuss abt drug -protein binding interactions with examples.	7 8
4	(a) Write abt principles, instrumentation and applications of flow cytometry. (b) Write abt cryopreservation and storage of cells.	9 6
5	(a) Explain different study designs in bioequivalence studies. (b) Differentiate absolute and relative bioavailability with illustrative examples and equations.	10 5
6	(a) Discuss the importance and applications of Toxicokinetic studies. (b) Write abt basic equipments used in cell culture lab.	8 7
7	(a) Discuss abt different approaches for identification of metabolites. (b) Write short note on clinical significance of bioequivalence studies.	10 5
8	(a) Describe the compendia methods of dissolution testing. (b) Write abt *in-vivo* and *in- vitro* methods for checking cellular permeability of new drug products.	7 8

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