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## **FACULTY OF PHARMACY**

M. Pharmacy (Pharmacology) I – Semester (PCI) (Suppl.) Examination, Aug. 2019
Subject: Cellular and Molecular Pharmacology

Time: 3 Hrs Max. Marks: 75

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

1. a) Write a note on cell death, intrinsic and extrinsic pathways of apoptosis.	8M
b) Explain in detail necrosis and autophagy.	7M
2. a) What do y understand abt intercellular cell signaling?	8M
b) Write descriptive notes on tyrosine kinase and G-protein cpled receptors.	7M
3. Explain in detail varis types of gene transfer techniques with its clinical application.	
Write abt recent advances in gene therapy.	15M
4. a) Write a note on ELISA and western blotting techniques.	8M
b) What do y understand abt recombi nant DNA technology?	7M
5. a) Write a note on genetic variation in G protient cpled receptors.	8M
b) Explain in detail genomics and proteomics.	7M
6. a) Explain basic principle involved in recombinant DNA technology.	8M
b) How polymorphism of drug affect the metabolism.	7M
7. a) Write a descriptive note on immunotherapeutics.	8M
b) Explain varis types of cell culture techniques.	7M
8. a) Write a note on principle and application of flow cytometry.	8M
b) Write notes on cryopreservation.	7M

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