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FACULTY OF PHARMACY

M. Pharmacy (Pharmacology) I-Semester (PCI) (Main & Backlog) Examination, January 2020

Subject: Cellular and Molecular Pharmacology

Time: 3 Hrs			Max. Marks: 75
		Note: Answer any Five questions. All questions carry equal marks	
1.	,	Explain cell cycle and its regulation. Explain in detail varis cell organelles.	8 7
2.	,	What do y understand by the term tissue necrosis and autophagy. Write a note on G-protein cpled receptors.	8 7
3.		Explain in detail CAMP, CGMP, IP3 and NO. Explain in detail JAK and STAT signaling pathways.	10 5
4.		Explain principle and application of micro array technique. Give varis recent advances in Gene therapy.	8 7
5.	,	Explain recombinant DNA technology. Write a note on cloning of diseased gene.	8 7
6.	,	Explain the role of genetic variation in heath/pharmacology. Write a note on proteomics and metabolomics.	7 8
7.	,	Explain in detail immunotherapeutics with its types. Explain varis techniques used for isolation of ani mal cells.	10 5
8.		Write a note on flow cytometry and cryopreservation. Write a note on Biosimilars.	10 5
		Write a note on Biosimilars.	