

Time: 3 Hrs

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Max. Marks: 75

FACULTY OF PHARMACY

M. Pharmacy (Pharmacology) I – Semester (PCI) (Main & Backlog) Examination, February 2019

Subject: Cellular and Molecular Pharmacology

Note: Answer any five questions. All questions carry equal marks.		
1	 a) Explain structure and function of cell organelles and genome organization. b) Explain how cell cycle will be regulated? 	8 7
2	a) What do y understand abt secondary messenger? b) Write descriptive notes on tyrosine kinase and nuclear receptors.	8 7
3	Explain in detail varis types of intracellular signaling pathways (Cyclic AMP, MAOK, JAK and STAT).	15
4	a) Write a note on principle and application of genomic tools. b) What do y understand abt DNA electrophoresis?	8 7
5	 a) Write a note on gene mapping and cloning of disease gene. b) Write a note on metabolomics and proteomics. 	8 7
6	a) Explain in detail varis types of gene transfer techniques. b) Write a descriptive note on gene sequencing and micro array technique.	8 7
7	a) Write a descriptive note on glucose uptake and calcium influx assay. b) Explain varis types of cell culture techniques.	8 7
8	a) Write a note on principle and application of varis cell viability assays. b) Write a note on Biosimilars.	10 5