## BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI (END SEMESTER EXAMINATION)

CLASS: MPHARM SEMESTER: I<sup>ST</sup>
BRANCH: PHARMACY SESSION: M0-24

## SUBJECT: MPL102 T ADVANCED PHARMACOLOGY I

TIME: 3.00 Hours INSTRUCTIONS:	FULL MARK: 75
<ol> <li>The missing data, if any, may be assumed suitably.</li> <li>Before attempting the question paper, be sure that you have got the correct question paper.</li> <li>Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination</li> <li>Answer any five questions.</li> </ol>	
1a. Classify Anticoagulants. Give mechanism of action, pharmacokinetics & adverse effects of heparoral anticoagulants. (7)	rin & [7]
1b. Classify diuretics. Give mechanism of action & uses of loop diuretics.(8)	[8]
2a. Elaborate types of Angina & anti anginal drugs. Discuss pharmacological actions ,kinetics & adve effects of nitrates. (8)	erse [7]
2b. Discuss combined effects of drugs with examples. (7)	[8]
3a. Write notes on(a) therapeutic index, (b) receptor regulation with examples. (8) 3b. Which patient factors modify drug action. (7)	[7] [8]
4a. Classify nervous system? Explain origin and distribution of sympathetic and parasympathetic new system with diagrammatic representation. (8)	rvous [7]
4b. What is Neurohumoral Transmission? Explain different steps in Neurohumoral transmission.(7)	[8]
5a. Explain synthesis ,release ,type of receptors of GABA neurotransmitters and their neuronal pathways in the brain with diagrammatic representation. (8)	[7]
5b. Illustrate synthesis , release , types of receptors of DOPAMINE neurotransmitters and their neuropathways in the brain with diagrammatic representation. (7)	onal [8]
6a. Explain synthesis ,release ,type of receptors of Serotonin (5-HT) neurotransmitters and their neuronal pathways in the brain with diagrammatic representation. (8)	[7]
6b. Explain and Classify different types of depressive patients and their treatment with different cladrugs. (7)	ass of [8]
7a. Give sources, mechanism of action of cardiac glycosides. How to treat dioxin toxicity. (8) 7b. Explain synthesis ,release ,type of receptors of Acetyl choline neurotransmitters and their neuronal pathways in the brain with diagrammatic representation. (7)	[7] [8]

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