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

CLASS: M.Pharm SEMESTER: Ist BRANCH: PHARMACY SESSION: MO-2023

SUBJECT: MPL102T ADVANCED PHARMACOLOGY-I

TIME: 3.00 Hours FULL MARK: 75

INSTRUCTIONS:

- 1. The missing data, if any, may be assumed suitably.
- 2. Before attempting the question paper, be sure that you have got the correct question paper.
- 3. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
- 5. Answer any five questions.

1a. Describe combined effects of drugs with examples ?.1b. Give therapeutic uses of Nitrates with emphasis on cyanide poisoning.	[7] [8]
2a. Discuss drug metabolising reactions & enzymes with examples. 2b. What approaches are used for treating hypertension. Give mechanism of action of ACE inhibitors & thiazide diuretics?	[7] [8]
3a. Give uses of fibrinolytics & antiplatelet drugs? 3b. Classify anticoagulants. Give mechanism of action & pharmacokinetics of heparin& oral anticoagulants?	[7] [8]
4a Illustrate synthesis, storage, postsynaptic action and termination of neurohumoral transmission? 4b. Explain sympathetic and parasympathetic out flow and their preganglionic and postganglionic neurotransmitters with suitable diagram?	[7] [8]
5a. Describe site and distribution, synthesis, types of receptors and physiological function of the following Neurotransmitters? a) GABA b) Dopamine	[7]
5b. Describe site and distribution , synthesis , types of receptors and physiological function of Glutamate?	[8]
6a. Explain therapeutic uses of parasympathetic and sympathomimetic agents? 6b. Describe classification ,mechanism of action and therapeutic application of local anaesthetics ?	[7] [8]
7a. Explain different phases, classification, mechanism of action and therapeutic application of general anaesthetics?	[7]
7b. Explain types of depression and describe classification, mechanism of action and therapeutic application of antidepressants?	[8]

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