Enrolment No.

## **GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM - SEMESTER-4 EXAMINATION - WINTER -2024**

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Time		ame: Pharmacology I 0 PM TO 05.30 PM Total Marks: 80	
	1. At 2. M	tempt any five questions. ake suitable assumptions wherever necessary. gures to the right indicate full marks.	
Q.1	(a)	Define general anaesthesia. Write various phases of the general anaesthesia.	06
	<b>(b)</b>	Classify receptors. Discuss signal transduction pathway of the nuclear receptor.	05
	<b>(c)</b>	Explain various phases of the clinical trial.	05
Q.2	(a)	Define adverse drug reaction. Explain Rawlins—Thompson classification of adverse drug reaction.	06
	<b>(b)</b>	Enlist routes of drug administration. Write merits and demerits of parenteral route.	05
	<b>(c)</b>	Write a note on myasthenia gravis.	05
Q.3	(a)	Define drug absorption. Discuss various mechanisms of the drug transport across the membrane.	06
	<b>(b)</b>	Classify anticholinesterases. Write therapeutic uses of the anticholinesterases.	05
	(c)	Write a note on neuromuscular blocking agents.	05
Q.4	(a)	Classify sympathomimetic. Write pharmacological actions of the adrenaline.	06
	<b>(b)</b>	Define opioid analgesic. Write pharmacological actions of the morphine.	05
	(c)	Justify the comments: <ul><li>a) Lithium carbonate can be used as mood stabilizer.</li><li>b) Levodopa is used in combination with carbidopa.</li></ul>	05
Q.5	(a)	Discuss physiological and pathological role of the serotonin.	06
	<b>(b)</b>	Classify the anti-epileptic drugs. Write pharmacology of the phenytoin.	05
	(c)	Explain microsomal enzyme induction and inhibition with suitable examples.	05
Q. 6	(a)	Define drug-drug interaction. Explain pharmacokinetics drug-drug interaction with suitable examples.	06
	<b>(b)</b>	Classify anti-depressant drugs. Write pharmacology of the SSRI.	05
	(c)	Write a note on neurohumoral transmission.	05
Q.7	(a)	Explain the following terms; a) Drug addiction, b) Drug abuse, c) Drug tolerance	06
	(b)	Classify local anaesthetic agents. Write mechanism of action and adverse effects of Lidocaine.	05
	(c)	Define antagonism. Explain different types of antagonism with suitable examples.	05

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