GUJARAT TECHNOLOGICAL UNIVERSITY B.PHARM – SEMESTER IV • EXAMINATION – SUMMER -2020

Subject Code: BP404TPDate: 29-10-2020Subject Name: PHARMACOLOGY- ITime: 10:30 AM TO 1:30 PMTime: 10:30 AM TO 1:30 PMTotal Marks: 80Instructions:1. Attempt any five questions.1. Attempt any five questions.2. Make suitable assumptions wherever necessary.3. Figures to the right indicate full marks.			-2020	
Q.1	a) b) c)	Enlist different types of receptors and discuss G protein coupled receptors in detail. Classify Parasympathomimetic agents and write a note on organophosphate poisoning. Discuss the factors modifying drug action in detail.	06 05 05	
Q.2	 c) a) b) c) 	Enlist the factors affecting drug absorption. Explain how lipid solubility and ionization of drug affects its absorption. Classify General Anaesthetics. Discuss the stages of general anaesthesia with suitable diagram. Discuss types of Glaucoma, pathophysiology and its drug treatment.	06 05 05	
Q.3	e) a) b) c)	Differentiate between Phase I and Phase II biotransformation reaction. Enlist various routes of drug administration and discuss advantages and disadvantages of Oral route. Write a note on Neurohumoral transmission.	06 05 05	
Q.4	 a) b) c) 	 Classify Local anaesthetics and write a detailed pharmacology of procaine. Define the following terms: i) Tolerance ii) Loading dose iii) Inverse agonist iv) Competitive antagonism v) Enzyme induction. Write on role of GABA as a neurotransmitter in CNS. 	06 05 05	
Q.5	a) b) c)	Classify drug interactions and discuss pharmacokinetic drug interactions with suitable examples. Discuss Mechanism of action and pharmacological actions of Adrenaline. Explain the pharmacology of β - Blockers in detail.	06 05 05	
Q. 6	a) b) c)	Classify Skeletal muscle relaxants. Explain mechanism of action and pharmacology of d- tubocurarine. Discuss the rationale for the use of ethyl alcohol in methyl alcohol poisoning. Classify antiepileptic drugs and write MOA and adverse effect of Phenytoin.	06 05 05	
Q.7	a) b) c)	Classify drugs used in Parkinsonism. Explain why Carbidopa is used in combination with Levodopa. Classify antipsychotic agent and write a note on atypical antipsychotic agents. Differentiate between REM and NREM sleep. Explain the mechanism of actions, pharmacological actions, adverse effects and use of benzodiazepines.	06 05 05	
