Seat No.: _____ Enrolment No._____

GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm. – SEMESTER – V • EXAMINATION – WINTER • 2014

Subject Code: 250005 **Date: 05-12-2014**

Subject Name: Pharmacology - II

Time: 10:30 am - 01:30 pm **Total Marks: 80**

Instructions:

1. **Attempt any five questions.**
2. **Make suitable assumptions wherever necessary.**
3. **Figures to the right indicate full marks.**

Q.1	**(a)**	Classify antiparkinsonian drugs. Discuss mechanism of action, therapeutic benefits and adverse effects of Entacapone.	**06**
	(b)	Explain neurochemical basis of extrapyramidal side effects. Justify the usage of anticholinergic agents in schizophrenic patients.	**05**
	(c)	Write a note on GABA as a neurotransmitter in the CNS.	**05**
Q.2	**(a)**	Classify antiepileptic agents. Explain pharmcodynamics of Phenytoin.	**06**
	(b)	Classify antipsychotic agents. Why atypical antipsychotic agents are preferred over typical antipsychotic agents?	**05**
	(c)	Differentiate followings: (Any two) i) Barbiturates and Benzodiazepines ii) TCAs and SSRIs iii) MAO-A and MAO-B inhibitors	**05**
Q.3	**(a)**	Classify antihypertensive agents. Explain mechanism of action, therapeutic uses and adverse effects of calcium channel blockers.	**06**
	(b)	Define CHF. Describe the pharmacological actions of digitalis in CHF.	**05**
	(c)	Classify diuretics on the basis of their sites of action.	**05**
Q.4	**(a)**	Write in brief the mechanism of action of following drugs. i. Guanethidine ii. Amlodipine iii. Buspirone iv. Rosuvastatin v. Disulfiram vi. Losartan	**06**
	(b)	Write a note on methyl alcohol poisoning. Why ethyl alcohol is used in methyl alcohol poisoning?	**05**
	(c)	Discuss mechanisms of action of Antiplatelet drugs.	**05**
Q.5	**(a)**	Classify thrombolytic agents. Write a short note on tissue plasminogen activators.	**06**
	(b)	Enumerate applications of gene therapy. Briefly explain various techniques of gene transfer.	**05**
	(c)	Write a note on Haematinics.	**05**
Q. 6	**(a)**	Classify Hypnotic and Sedatives. Describe pharmacology of Barbiturates.	**06**
	(b)	Classify lipid lowering agents. Write a note on Fibrates.	**05**
	(c)	Explain mechanism of action and therapeutic uses of: i. Celecoxib ii. Naloxone	**05**
Q.7	**(a)**	Classify NSAIDs with examples. Explain therapeutic uses of Aspirin.	**06**
	(b)	Describe pharmacological actions of morphine.	**05**
	(c)	Discuss in detail the importance of pre-anaesthetic medications?	**05**

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