

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 pharmacodynamics of Phenytoin. **06**
- (b) Classify antipsychotic agents. Why atypical antipsychotic agents are preferred over typical antipsychotic agents? **05**
- (c) Differentiate followings: (Any two) **05**
- i) Barbiturates and Benzodiazepines
- ii) TCAs and SSRIs
- iii) MAO-A and MAO-B inhibitors
- 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. **06**
- i. Guanethidine ii. Amlodipine iii. Buspirone
- iv. Rosuvastatin v. Disulfiram vi. Losartan
- (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: **05**
- i. Celecoxib ii. Naloxone
- 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**
