

Seat No.: \_\_\_\_\_

Enrolment No. \_\_\_\_\_

## GUJARAT TECHNOLOGICAL UNIVERSITY

B. Pharm-Semester-V May-2012 Examination

Subject code: 250005

Subject Name: Pharmacology - II

Time: 02:30pm to 5:30pm

Date: 21-05-2012

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 antiepileptic drugs. Describe pharmacology of Phenytoin. **06**  
(b) Describe in brief the pharmacology of thromolytic agents. **05**  
(c) Discuss the role of calcium channel blockers in angina pectoris. **05**
- Q.2** (a) Classify diuretics. Write on Furosemide. **06**  
(b) Write on pharmacology of antiplatelet agents. **05**  
(c) Differentiate REM and NREM sleep. How benzodiazepines affect REM sleep. **05**
- Q.3** (a) Write in brief the mechanism of action of following antihypertensive drugs. **06**  
i. Losartan      iii. Clonidine      v. Spironolactone  
ii. Enalapril      iv. Nicorandil      vi. Atenolol  
(b) Write on the role of Dopamine as a neurotransmitter in the CNS. **05**  
(c) Enumerate opioid antagonist. Write on pharmacology of Naloxone. **05**
- Q.4** (a) Describe pharmacological actions of Digoxin on heart in presence of congestive cardiac failure. **06**  
(b) Describe how methanol poisoning is treated? **05**  
(c) Write briefly on gene based therapy. **05**
- Q.5** (a) Classify non-selective COX inhibitors. Describe how they produce analgesics – antipyretic and anti-inflammatory effects? **06**  
(b) Describe pharmacological actions and toxicities of Chlorpromazine. **05**  
(c) Enlist psychotomimetic agents. Describe how they act? **05**
- Q.6** (a) What is pre-anaesthetic medication? Why such medication is needed? Explain in detail with appropriate examples of drugs. **06**  
(b) Write note on lithium carbonate as an anti-manic drug. **05**  
(c) Enumerate antihyperlipidemic drugs. Describe in brief the pharmacological actions of Statins. **05**
- Q.7** (a) Classify antiparkinsonian drugs. Why L-dopa is combinely used with carbidopa in the treatment of parkinsonism? Explain **06**  
(b) Write on Lignocaine as an anti-arrhythmic drug. **05**  
(c) What are the requirements of an ideal plasma expander? Write on gelatin polymers. **05**

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