

## GUJARAT TECHNOLOGICAL UNIVERSITY

**B.Pharm-SEMESTER-VI- (OLD SYLLABUS) EXAMINATION – SUMMER-2015**

**Subject Code: 260004**

**Date: 07/05/2015**

**Subject Name Pharmaceutical Chemistry VIII (Medicinal Chemistry)**

**Time: 10:30 a.m. to 1:30 p.m.**

**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) Discuss different types of receptors and Drug – receptor interaction. **06**  
What are the different factors affecting drug receptor interaction.
- (b) What are cholinergics? Classify. Discuss SAR of Cholinergics. **05**
- (c) Write note on Neuromuscular blocking agents. **05**
- Q.2** (a) What is drug metabolism? Discuss factors affecting drug **06**  
metabolism.
- (b) Classify Anti cholinergics? Discuss SAR of muscarinic antagonists. **05**
- (c) Discuss brief about adrenergic blockers. Write synthesis of **05**  
Salbutamol.
- Q.3** (a) What is Epilepsy? Discuss different drugs used in the treatment of **06**  
grand mal epilepsy.
- (b) Classify sedative and Hypnotics. Discuss SAR of Benzodiazepines. **05**
- (c) Write brief note on Opioid analgesics. **05**
- Q.4** (a) Discuss SAR of Barbiturates. Classify barbiturates based on **06**  
duration of action.
- (b) Write note on drugs used in the treatment of Alzheimer's disease. **05**
- (c) What is Anaesthesia? Write note on General Anaesthetic agents. **05**
- Q.5** (a) What are local anaesthetics? Discuss general SAR of local **06**  
anaesthetic agent.
- (b) Write note on Drugs used as Anxiolytics. **05**
- (c) Write synthesis of any two (i) Lignocaine (ii) Phenytoin (iii) **05**  
Pethidine.
- Q. 6** (a) What are antipsychotic drugs? Discuss SAR of Phenothiazines used **06**  
as antipsychotics.
- (b) Write brief note on drugs used as CNS stimulants. **05**
- (c) Write synthesis of (i) Amphetamine (ii) Ibuprofen **05**
- Q.7** (a) What are antidepressants? Classify. Write brief note on Tricyclic **06**  
antidepressants.
- (b) What are Non steroidal anti-inflammatory drugs (NSAIDs)? Discuss **05**  
salicylates used as NSAIDs.
- (c) Write note on 'Antiparkinson's agent'. **05**

\*\*\*\*\*