

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

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

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**B.PHARM – SEMESTER – 4- EXAMINATION –WINTER - 2018**

**Subject Code:240005****Date: 10/12/2018****Subject Name: Pharmacology - I****Time:02:30 PM TO 05:30 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 parasympathomimetics. Write M/A and therapeutic uses of Ach. **06**  
(b) Explain pharmacokinetic drug- drug interactions with examples. **05**  
(c) Write a note on enzyme induction and enzyme inhibition with examples. **05**
- Q.2** (a) Classify beta blockers. Write a pharmacological action and uses of propranolol. **06**  
(b) Differentiate competitive and non-competitive antagonism. **05**  
(c) Explain drug tolerance and dependence. **05**
- Q.3** (a) Classify serotonin receptors and describe its pharmacological actions. **06**  
(b) Write merits and demerits of intravenous route. **05**  
(c) Write different phases of clinical trials. **05**
- Q.4** (a) Classify alpha-adrenoreceptor antagonist. Describe pharmacology of prazosin. **06**  
(b) Explain various factors modifying drug action. **05**  
(c) Describe mode of action and therapeutic uses of local anaesthetics. **05**
- Q.5** (a) Classify antihistamines and give its pharmacological action and therapeutic uses. **06**  
(b) Write a note on apparent volume of distribution. **05**  
(c) Write a short note on acute and sub acute toxicity study. **05**
- Q. 6** (a) Classify neuromuscular blockers. Write on M/A and uses of d-tubocurarine. **06**  
(b) Explain bioavailability and its significance. **05**  
(c) Write a note on organophosphorous poisoning. **05**
- Q.7** (a) Write in brief the gating and signal transduction mechanisms of G-protein coupled receptors. **06**  
(b) Write a note on prostaglandins. **05**  
(c) Explain the term of biological half life and give its importance. **05**

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