

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.**

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|-------------|-----|--|-----------|
| 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 |
