

Enrollment No: \_\_\_\_\_ Exam Seat No: \_\_\_\_\_

# C.U.SHAH UNIVERSITY

## Summer Examination-2019

**Subject Name: Pharmacology I**

**Subject Code: 4PS04COL1**

**Semester: 4**

**Date: 03/05/2019**

**Branch: B.Pharm**

**Time: 02:30 To 05:30**

**Marks: 70**

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

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- Q-1 Define the following terms (14)**
- a) Teratogenicity
  - b) First pass metabolism
  - c) Bioavailability
  - d) G-protein coupled receptors
  - e) Structure activity relationship
  - f) Plasma protein binding
  - g) Drug
  - h) Apparent volume of distribution
  - i) Preclinical studies
  - j) Organophosphorous poisoning
  - k) Dale's vasomotor reversal phenomenon
  - l) Pharmacokinetic
  - m) Pharmacodynamics
  - n) Dose response relationship

**Attempt any four questions from Q-2 to Q-8**

- Q-2 Attempt all questions (14)**
- a. Enumerate routes of drug administration. Give the merits and demerits of intravenous route of drug administration (7)
  - b. Explain drug tolerance and dependence. (7)
- Q-3 Attempt all questions (14)**
- a. Give merits of prolongation of drug action. Explain various methods used to prolong the duration of action of drug (7)
  - b. Briefly explain various types of animal toxicity studies (7)
- Q-4 Attempt all questions (14)**
- a. Write a note on clinical trials. (7)
  - b. Write a note on local anesthetics (7)
- Q-5 Attempt all questions (14)**
- a. Write a note on Phase II reactions involved in drug metabolism (7)
  - b. Explain pharmacokinetic drug- drug interactions with examples. (7)



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|------------|---|-------------|
| <b>Q-6</b> | <b>Attempt all questions</b>  | <b>(14)</b> |
|            | <b>a.</b> Enumerate various types of adverse drug effects.                        | <b>(7)</b>  |
|            | <b>b.</b> Write therapeutic uses of prostaglandin analogues                       | <b>(7)</b>  |
| <b>Q-7</b> | <b>Attempt all questions</b>  | <b>(14)</b> |
|            | <b>a.</b> Write adverse effects and uses of H <sub>1</sub> - receptor antagonists | <b>(7)</b>  |
|            | <b>b.</b> Write the therapeutic uses of cholinergic blocking drugs                | <b>(7)</b>  |
| <b>Q-8</b> | <b>Attempt all questions</b>  | <b>(14)</b> |
|            | <b>a.</b> Enumerate pharmacological actions of adrenergic blocking drugs          | <b>(7)</b>  |
|            | <b>b.</b> Describe neurohumoral transmission                                      | <b>(7)</b>  |

