

Enrollment No: _____ Exam Seat No: _____

C.U.SHAH UNIVERSITY

Summer Examination-2017

Subject Name: Pharmacology-I

Subject Code: 4PS04COL1

Branch: B.Pharm

Semester: 4

Date: 28/04/2017

Time: 10:30 To 01:30

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.

Q-1 Explain the following terms: (14)

- | | |
|-----------------------|-------------------------|
| a. Affinity | b. Antagonist |
| c. Pharmacokinetics | d. Side effect |
| e. Drug tolerance | f. Pharmacotherapeutics |
| g. Toxicity | h. Teratogenicity |
| i. Carcinogenic drug | j. Bioavailability |
| k. Intrinsic activity | l. Drug metabolism |
| m. Half life | n. Partial agonist |

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

- Q-2** a. Classify autacoids. Explain triple responses induced by histamine. (07)
b. Write a short note on receptor occupation theory. (07)
- Q-3** a. What is receptor? Explain signal transduction mechanisms of G-protein coupled receptors. (07)
b. Describe various pharmacological action of prostaglandins. (07)
- Q-4** a. Describe various factors affecting absorption of drug. (07)
b. Describe in detail about drug interaction. (07)
- Q-5** a. Enlist various routes of drug administration. Give brief note on parenteral route. (07)
b. Differentiate between sympathetic and parasympathetic nerve (07)
- Q-6** a. Enlist various reactions involved in metabolism. Write a short note on microsomal enzyme inhibition. (07)
b. Differentiate between competitive and non competitive antagonism. (07)
- Q-7** a. Write a short note on Cholinergic transmission. (07)
b. Describe in detail about various phase of clinical trial. (07)
- Q-8** a. Explain various types of animal toxicity studies. (07)
b. Classify adrenergic and cholinergic receptors with subtypes and explain (07)



pharmacological action of Atropine.

