

C U SHAH UNIVERSITY

WADHWAN CITY

SUMMER EXAMINATION-2015

B. Pharm Semester-IV

Branch: Faculty of Pharmaceutical Sciences

Semester: IV

Subject Code: 4PS04COL1

Subject Name: Pharmacology-I

SECTION-I

- Q. 1** Define the following terms
- (a) Partial Agonist **01**
 - (b) Antagonist **01**
 - (c) Synergism **01**
 - (d) Receptor **01**
 - (e) Drug Tolerance **01**
 - (f) Pharmacokinetics **01**
 - (g) Toxicology **01**
- Q. 2**
- (a) Differentiate competitive and non-competitive antagonism **05**
 - (b) Describe various factors affecting absorption of drug **05**
 - (c) Write a short note on Plasma protein binding **04**
- OR**
- Q. 2**
- (a) Explain Dale`s vasomotor reversal phenomenon **05**
 - (b) Write a short note on organophosphorous poisoning **05**
 - (c) Describe in detail about ganglion blockers **04**
- Q. 3**
- (a) Classify receptors. Write a short note on Cytosolic receptors. **05**
 - (b) Enumerate various reactions involved in metabolism. Write a short note on microsomal enzyme induction. **05**
 - (c) Write a short note on Blood brain barrier **04**
- OR**
- Q. 3**
- (a) Write a short note on neurohumoral transmission. **05**
 - (b) Write a short note on drugs acting on autonomic ganglia. **05**
 - (c) Write a short note on atropine poisoning **04**

SECTION-II

- Q. 4** Answer the following terms
- (a) Teratogenicity **02**
 - (b) Pharmacodynamics **01**
 - (c) Bioavailability **02**
 - (d) First pass metabolism **02**
- Q. 5**
- (a) Write pharmacological actions of histamine. **05**
 - (b) Describe pathophysiological role of prostaglandins **05**

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- (c) Describe pharmacology of angiotensin. **04**
- OR**
- Q. 5**
- (a) Write a short note on receptor occupation theory **05**
- (b) Enumerate routes of drug administration. Give the merits and demerits of intravenous route of drug administration **05**
- (c) Define biotransformation. Explain various factors affecting biotransformation of drugs. **04**
- Q. 6**
- (a) Explain various types of animal toxicity studies. **05**
- (b) Explain signal transduction mechanisms of G-protein coupled receptors. **05**
- (c) Explain various methods used to prolong the duration of action of drug. **04**
- OR**
- Q. 6**
- (a) Classify muscarinic and nicotinic receptors with subtypes and explain pharmacological action of Acetylcholine. **05**
- (b) Write a short note on clinical trial **05**
- (c) Define drug and explain different sources of drugs. **04**