

# C.U.SHAH UNIVERSITY

## Summer Examination-2019

Subject Name: Pharmacology I - Theory

Subject Code: BP404T

Branch: B.Pharm

Semester: 4

Date: 24/04/2019

Time: 02:30 To 05:30

Marks: 75

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** Briefly explain the following: (20)
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|--|---|
| a) Spare receptors   | 2 |
| b) Agonist and antagonist                                    | 2 |
| c) Idiosyncrasy  | 2 |
| d) Glaucoma  | 2 |
| e) Enzyme inhibition and enzyme induction                    | 2 |
| f) Essential drugs   | 2 |
| g) NMJ blockers  | 2 |
| h) Organophosphate poisoning                                 | 2 |
| i) Cholinergic crisis  | 2 |
| j) Enumerate alpha-blockers used as anti-hypertensive agents | 2 |
- Attempt the following questions:**
- Q-2** Attempt any two of following : (20)
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|--|----|
| <b>A</b> Classify routes of drug administration. Explain merits and demerits of each       | 10 |
| <b>B</b> Write therapeutic classification of Sympathomimetics. Explain pharmacology of ACh | 10 |
| <b>C</b> Explain structure of GPCR and signal transduction pathways in detail              | 10 |
- Q-3** Attempt any Seven of following : (35)
- |   |   |
|---|---|
| <b>A</b> Discuss structure and function of ion-channels                           | 5 |
| <b>B</b> Explain different transport mechanism across cell membrane               | 5 |
| <b>C</b> Discuss different stages of General anesthesia                           | 5 |
| <b>D</b> Classify local anesthetic agents. Explain MOA of lidocaine               | 5 |
| <b>E</b> Define biotransformation. Explain Phase-I & Phase-II reactions in detail | 5 |
| <b>F</b> Explain different phases of clinical trials                              | 5 |
| <b>G</b> Explain general steps involved in Neurohumoral transmission              | 5 |
| <b>H</b> Write note on myasthenia gravis  | 5 |
| <b>I</b> Explain Vd. Describe factors effecting drug distribution                 | 5 |

