

**PY-404****B.Pharm., IV Semester**

Examination, June 2017

**Choice Based Credit System (CBCS)****Pharmacology - I****Time : Three Hours****Maximum Marks : 60**

- Note:** i) Attempt any five questions.  
ii) All questions carry equal marks.

1. What are zero order and 1<sup>st</sup> order elimination kinetics? Discuss the various mechanism of drug transport across the cell membrane.
2. Define spare receptors, tachyphylaxis, idiosyncrasy, competitive antagonists. Describe the various routes of drug administration.
3. What are pharmacokinetic and pharmacodynamic drug interaction, give examples. Describe the structure and function of G-protein coupled receptor and ion channel receptor.
4. Discuss the various factors modifying drug action. Write the various steps in drug discovery with a suitable diagram.
5. Describe the different parts of peripheral nervous system and their function. What are parasympathomimetics, parasympatholytics, sympathomimetics and sympatholytics? Give examples.

6. What are myasthenia gravis and glaucoma? Describe the different drugs used and their mode of action against myasthenia gravis and glaucoma.

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7. Write the differences between central nervous system and peripheral nervous system. Discuss the role of GABA, serotonin and dopamine neurotransmitters.

8. Enlist different classes of drugs and their mode of action used against Parkinson's and Alzheimer disease.

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