

[Time: 3 Hours]

[Max. Marks: 75]

**Advanced Pharmacology - I****Q.P. CODE: 5134**

Your answers should be specific to the questions asked.  
Draw neat, labeled diagrams wherever necessary.

**LONG ESSAY (Answer any Three)****3 X 10 = 30 Marks**

1. Define and classify receptors. Explain GPCR family.
2. Explain the steps involved in neurohumoral transmission in adrenergic system. Add a note on any two neurotransmitters of CNS.
3. Define and classify non-narcotic analgesics with examples. Explain the pharmacology of aspirin.
4. Define and classify anti-hypertensive drugs with examples. Explain the pharmacology actions of any one  $\beta$ - blocker.

**SHORT ESSAY (Answer any Nine)****9 X 5 = 45 Marks**

5. Explain the concept of drug receptor interaction
6. Write the pharmacology of 5-HT receptor blocker.
7. What are the physiological and pathological roles of serotonin?
8. Explain the role of Renin Angiotensin System in volume regulation. Explain the mechanisms of different drugs affecting it.
9. Explain the mechanism of drug transport across biological membranes.
10. Write the pharmacology of used to treat anxiety.
11. Explain the pharmacology of resperidone.
12. Write classification **parasympatholytic** agents. Write their adverse effects and therapeutic uses of any two drugs.
13. Write the pharmacology of H1 receptor blocker.
14. Classify anti-platelets and pharmacology of any one drug.

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