

Advanced Pharmacology and Toxicology
(Revised Scheme 4)**Q.P. CODE: 9349**

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

LONG ESSAY (Answer any TWO)**2 X 20 = 40 Marks**

1. Explain the Pathophysiology and Pharmacotherapy of Hypertension.
2. Classify receptors with suitable examples. Explain the structure and importance of G protein coupled receptor. Explain the role of secondary messengers of GPCR in cell signaling.
3. Explain the pathophysiology and management of Parkinson's and Alzheimer's disease.

SHORT ESSAY (Answer any FIVE)**5 X 10 = 50 Marks**

4. Explain the mechanism of action and therapeutic uses of antihistamines.
5. Discuss the current trends in the Pharmacotherapy of osteoporosis.
6. Explain the electrophysiology of myocardium and explain how class I antiarrhythmic drugs act.
7. Explain the mechanism of action of drugs used in the treatment of AIDS.
8. Explain any two methods employed for reproductive toxicity assessment.
9. Explain the etiology of epilepsy, pharmacotherapy of epilepsy and adverse effects of antiepileptic drugs.

SHORT NOTES**2 X 5 = 10 Marks**

10. Explain the objectives of treatment of Myasthenia gravis and ADRs associated with drugs used to treat it.
11. What is Carcinogenicity? Explain the two *in vivo* methods in assessing carcinogenicity.

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