

**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. What is cardiac arrhythmia? Give the classification of Anti arrhythmic drugs with example and discuss the pharmacology, toxicology and uses of Calcium channel blockers. Note on adverse reaction of quinidine.
2. a) Classify Antiepileptic drugs with examples.  
b) Explain the mechanism of action, therapeutic uses and adverse effects of Phenytoin and Carbamazepine.
3. Classify analgesics with example and describe Opioid receptors and give the pharmacology of Opioid analgesics.

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

4. Define Peptic ulcer. Classify anti-ulcer drugs.
5. Explain Cardiotonics with example.
6. Describe G-protein coupled receptors.
7. Explain the mechanism of action of tricyclic antidepressant drugs and pathophysiology of depression.
8. Give a note on ACE inhibitors.
9. What is organ toxicity? What are the therapeutic drugs involved in Nephrotoxicity and Reproductive toxicity.

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

10. Rifampicin
11. Aminoglycoside antibiotics

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