



ADVANCED PHARMACOLOGY AND TOXICOLOGY

**PAPER II
(RS2 & RS3)**

Q.P. CODE : 9242

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 molecular level mechanisms of bacterial protein synthesis and drugs affecting it. Discuss the current developments of anti-microbial-drug-resistance.
2. Describe the transport of lipoproteins in the body and the mechanisms of action of hypolipidaemic drugs.
3. Explain the biosynthesis, physiological significance and pharmacological actions of arachidonic acid metabolites. What is the role of NSAIDs in inflammation?

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

4. Discuss the molecular mechanisms of actions of beta-receptors.
5. Write a detailed account of the mediators of immune system and explain how drugs modify their effect?
6. With a brief description of thyroid function, explain the mechanisms of action of antithyroid drugs.
7. Discuss the mechanism of action of oral antidiabetic drugs.
8. Explain the molecular mechanism of action of opioids. Describe the pharmacological actions of morphine on the CNS.
9. Describe the cholinergic transmission and drugs affecting it. Add a note on the sites of release of Ach in ANS.

SHORT NOTES

2 X 5 = 10 Marks

10. Management of toxicity reaction in human
11. Dose response relationship

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