

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. Answer any ten questions.

LONG ESSAY (Answer any TEN)

10 X 10 = 100 Marks

1. Explain the biosynthesis, pathological roles of Endothelial Derived Relaxing Factor (EDRF) oxygen free radicals, Cytokines, Cox-I and Cox-2 in inflammation.
2. Explain the role of G protein coupled receptors in intracellular signalling pathway with suitable example.
3. Explain the role of tyrosin kinase receptors in signal transduction with suitable example.
4. Write the pathophysiology and pharmacotherapy in Cardiac arrhythmias.
5. What is Alzheimer disease and write its pathophysiology and pharmacotherapy.
6. Explain briefly *in-vitro* carcinogenicity study.
7. Explain the protocol of micronuclei test in mouse mode.
8. Write the pathophysiology involved in various thyroid disorders.
9. Explain the protocol involved in chronic toxicity study.
10. What is congestive cardiac failure and write its pathophysiology and pharmacotherapy.
11. What is inflammatory bowel disease and write its pathophysiology and pharmacotherapy.
12. Explain the biosynthesis, pathophysiological role, receptors and actions of histamine.

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