

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 role of various chemical mediators in inflammation.
2. Explain in vivo mutagenicity tests in rodents.
3. Discuss intracellular signal transduction mediated through IP₃-DAG pathway.
4. Describe the adrenergic transmission. Explain the biosynthesis, metabolism and physiological role of adrenaline.
5. Explain the pathophysiology and pharmacotherapy of depression. Discuss the mechanism of action of sertraline.
6. Classify anti-hypertensive agents with examples. Explain the mechanism of diuretics and calcium channel blockers in treatment of hypertension.
7. Write a brief description of endocrine functions of pancreas. Explain the mechanism of action of oral antidiabetic drugs.
8. What is osteoporosis? Explain the pathophysiology and pharmacotherapy of post-menopausal osteoporosis.
9. Discuss the pathophysiology and management of urinary tract infections.
10. Classify anti HIV agents. Explain the mechanism of action of Zidovudine and discuss the pharmacotherapy of HIV infection.
11. What is Schizophrenia? Write its pathophysiology and pharmacotherapy.
12. Write the pharmacotherapy in Peptic ulcer and write the mechanism of each class of Anti ulcer drugs.

* * * * *