



ADVANCED PHARMACOLOGY AND TOXICOLOGY

PAPER II

(Revised Scheme 2)

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. Discuss the structure, mechanism of activation and the targets applicable to GPCR.
2. Classify anticancer agents based on their mechanism of actions and discuss the mechanism of each class of drugs. How is, the resistance tackled in the cancer chemotherapy?
3. Discuss the molecular basis of depression. Explain the mechanism of antidepressant drugs.

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

4. Explain the cellular and molecular level mechanism of actions of insulin and glitazones.
5. Discuss the physiology of urine formation. Explain the mechanism of action of diuretics.
6. Discuss the mechanism of anti-inflammatory and analgesic action of NSAIDs. Discuss the advantages of COX₂ selective drugs.
7. Discuss the principles of immunosuppression.
8. With a brief description of thyroid function, explain the mechanism of action of antithyroid drugs.
9. Classify drugs used in the treatment of hypertension. Discuss mechanism of action of any three category of drug.

SHORT NOTES

2 X 5 = 10 Marks

10. Factors influencing toxicity
11. Reproductive toxicity

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