

Your answers should be specific to the questions asked.
Draw neat labeled diagrams wherever necessary. Answer all questions

LONG ESSAY (Answer any TWO)**2 X 20 = 40 Marks**

1. Define receptor. Describe G protein coupled receptor and their role in signal transduction with an example using a neat diagram
2. Classify antiarrhythmic drugs. Give an account of pharmacology and adverse reactions of quinidine
3. Classify analgesics with examples. Discuss the pharmacology of Cox-1 and Cox-2 inhibitors

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

4. Cardio selective sympathomimetics
5. Cardiotonics
6. Carcinogenicity
7. Oral hypoglycemic agents
8. Anti protozoals
9. Management of parkinsonism

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

10. Anti – diuretics
11. Diazepam

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Q.P. CODE: 9243

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LONG ESSAY (Answer any TWO)

2 X 20 = 40 Marks

1. Give the clinical study design documentation, presentation and interpretation of clinical trials as per ICMR – GCP guidelines.
2. a) explain the rationale of different screening methods for anti – hypertensive drugs
b) Explain any two methods used to screen antihypertensive agents.
3. a) Describe experimental models and statistical designs employed in biological standardization.
b) Describe the bioassay of ACTH

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

4. Alternatives to animal screening procedures
5. Nonlinear pharmacokinetics
6. Screening of anti – malarials
7. Physiological models for drug development.
8. Drug transport mechanisms in absorption.
9. Explain the factors to be considered during drug individualization

SHORT NOTES

2 X 5 = 10 Marks

10. Molecular biology techniques
11. Newer techniques of drug administration.

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LONG ESSAY (Answer any TWO)**2 X 20 = 40 Marks**

1. Discuss the structure and function of various organelles of mammalian cell with a neat labeled diagram. Explain the various phases of cell cycle
2. Describe the various steps involved in the production of a recombinant protein using recombinant technology with neat labeled diagrams
3. Discuss the structure of DNA with a neat labeled diagram. Explain the factors that control the gene expression

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

4. Apoptosis
5. Culture and maintenance of mammalian cells
6. DNA sequencing
7. Viral vectors
8. Monoclonal antibodies in therapy
9. Recombinant Hormones

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

10. Anti sense technology
11. Biosensor
