

ANSWER ANY FOUR**4 X 25 = 100 Marks**

1. (a) Explain Neurohumoral transmission of autonomic nervous system.
(b) Classify adrenergic agonists and Antagonists and explain Mechanism of action, toxicity of one drug from each category.
2. Classify immunosuppressants. Discuss role of immunosuppressants in the solid organ transplantation.
3. (a) Write the general principles of chemotherapy. Write the mechanism of action, toxicities of drugs use in UTI.
(b) General principles and management of acute poisoning.
4. (a) Give Vaughan Williams classification for antiarrhythmic drugs. Explain the pharmacology of one drug from each class.
(b) Pharmacology of drugs used in Brady arrhythmias.
5. What are local hormones? Explain the synthesis, storage, metabolism, receptors and role of Histamine in the body, and add a note on H1 receptor antagonists.
6. (a) Classify different types of Diabetes. Discuss briefly pathophysiology of Diabetes.
(b) Classify anti-diabetic drugs and explain the detail mechanism of action, adverse reactions and uses of any one drug from each class.

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

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1. (a) What is biotransformation? Describe Type-II biotransformation reactions.
(b) Explain the role of enzyme induction in drug response.
2. (a) Discuss various methods of screening antiepileptic agents.
(b) Discuss the methods of screening CNS stimulants.
3. (a) What is bioassay? Explain the bioassay of oxytocin.
(b) Classify various types of immunoassays. Explain the principle and applications of radioimmuno assay in drug research.
4. (a) Discuss the various phases of clinical trials.
(b) Discuss various methods of assessing the toxicity of a drug.
5. Give a note on:
(a) Essential drug list (WHO).
(b) Orphan drugs.
(c) Wilcoxon tests.
(d) Bioavailability.
(e) Rational drug concept.
6. (a) What is transgenic animals and how they differ from normal animals? Explain the importance of transgenic animals in experimental pharmacology.
(b) What is student 't' test? Explain its application in pharmacological studies.

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1. (a) Discuss the pathogenesis, risk factors and pharmacotherapy of essential hypertension.
(b) Discuss the pathophysiology and pharmacotherapy of Constipation and Diarrhoea.
2. (a) Rational approaches of the Pharmacotherapy of Constipation and Diarrhoea.
(b) Discuss the management of chronic renal failure.
3. (a) Discuss the pathophysiology of different types of epileptic disorders and their specific pharmacotherapy.
(b) Discuss the drug therapy of COPD.
4. (a) Discuss the pharmacotherapy of Osteoporosis.
(b) Describe the pathogenesis of glaucoma and discuss the principles of drug therapy.
5. (a) With a note on the pathophysiology of pain perception, discuss the pharmacotherapy of pain management.
(b) Describe the pharmacotherapy of acute lymphocytic leukaemia.
6. (a) Discuss the multidrug therapeutic regimens in the management of AIDS.
(b) Drug resistant malaria and its treatment.

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