

SAI TIRUPATI UNIVERSITY

SYLLABUS FOR Ph.D ENTERANCE EXAMINATION IN PHARMACOLOGY

Topics:

General Pharmacology

- Combined Drug Administration : Indifference, Synergism, Antagonism & Adverse Drug Reactions
- Factors Modifying Drug Action
- Introduction : Pharmacology : A Foundation to Clinical Practice
- Pharmacodynamics : Principles of Drug Action, Mechanism of Drug Action, Receptors
- Pharmacokinetics : Absorption, Distribution, Biotransformation, Elimination
- New Drug Development

Autonomic Pharmacology and P.N.S.

- Adrenergic Drugs
- Parasympatholytic drugs
- Antiadrenergic drugs
- Parasympathomimetic drugs
- General Considerations and Neurohumoral Transmission

Cardiovascular and Nephro pharmacology

- Antihypertensives and Pharmacotherapy of Hypertension
- Antianginal Drugs and Pharmacotherapy of Angina Pectoris
- Management of Congestive Cardiac Failure
- Diuretics* and Antidiuretics
- Pharmacotherapy of Shock & Vassopressor agents

Haematological Pharmacology

- Haematinics
- Anticoagulants, Thrombolytic, Antiplatelets and Coagulants
- Haematopoietic Factors

Endocrine Pharmacology

- Corticosteroids
- Thyroxin and Antithyroid Drugs
- Pharmacotherapy of Diabetes Mellitus
- Hormonal Contraceptives
- Parathormone and Drugs affecting Calcium Metabolism
- Estrogen, Progestins and their Antagonists
- Testosterone and Anabolic Steroids

**General
Chemotherapy**

- Sulfonamides, Cotrimoxazole, Quinolones
- Beta-Lactam Antibiotics
- Aminoglycosides
- Broad Spectrum Antibiotics
- General Considerations
- Macrolides
- Principles of Cancer Chemotherapy

**Chemotherapy of
Specific Infections**

- Chemotherapy of Tuberculosis
- Chemotherapy of Leprosy
- Chemotherapy of Malaria
- Chemotherapy of Viral Infection
- Chemotherapy of U.T.I
- Chemotherapy of Amoebiasis
- Chemotherapy of S.T.Is

**Neuropsychiatric
and Perioperative
Pharmacology**

- Analgesics : Opioids and N.S.A.I.Ds
- Hypnosedatives
- Local Anaesthetics
- Preanaesthetic Medication
- Pharmacotherapy of Epilepsy
- Antiparkinsonian Drugs
- General Anaesthetics
- Psychopharmacology

**Gastrointestinal
Pharmacology**

- Pharmacotherapy of Acid Peptic Disease
- Antidiarrhoeals and Management of Diarrhoea
- Antiemetics and Management of Vomiting
- Purgatives and Management of Constipation
- Emetics