

PACIFIC MEDICAL UNIVERSITY
SYLLABUS FOR Ph.D ENTERANCE EXAMINATION IN
PHARMACOLOGY

Topics:

- | | |
|---|--|
| General Pharmacology | <ul style="list-style-type: none">• 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. | <ul style="list-style-type: none">• Adrenergic Drugs• Parasympatholytic drugs• Antiadrenergic drugs• Parasympathomimetic drugs• General Considerations and Neurohumoral Transmission |
| Cardiovascular and Nephro pharmacology | <ul style="list-style-type: none">• 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 | <ul style="list-style-type: none">• Haematinics• Anticogulants, Thrombolytic, Antiplatelets and Coagulants• Haematopoietic Factors |
| Endocrine Pharmacology | <ul style="list-style-type: none">• Corticosteroids• Thyroxin and Antithyroid Drugs• Pharmacotherapy of Diabetes Mellitus• Hormonal Contraceptives• Paratharmone and Drugs affecting Calcium Metabolism• Estrogen, Progestins and their Antagonists• Testosterone and Anabolic Steroids |

General Chemotherapy	<ul style="list-style-type: none"> •Sulfonamides, Cotrimoxazole, Quinolones •Beta-Lactam Antibiotics •Aminoglycosides •Broad Spectrum Antibiotics •General Considerations •Macrolides •Principles of Cancer Chemotherapy
Chemotherapy of Specific Infections	<ul style="list-style-type: none"> •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	<ul style="list-style-type: none"> •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