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B) GENERAL PHARMACOLOGY:	$(N=7\pm2)$
Pharmacokinetics: Absorption, Distribution, Biotransformation, Elimination Pharmacodynamics: Principles of Drug Action, Mechanisms of drug action,	(n=3)
Receptors (Nature, Types, Theories, Principles, Regulation)	(n=1)
Application to pharmacotherapeutics: Relevance of Pharmacokinetics and dynan	nics
in clinical practice, Sequale of repeated administration of drug	(n=2)
Adverse Drug Reactions	(n=1)
C) AUTONOMIC PHARMACOLOGY:	$(N=8\pm2)$
General Considerations	(n=1)
Adrenergic agonists	(n=1)
Adrenergic antagonists I: -blockers	(n=1)
Adrenergic antagonists II: -blockers	(n=1)
Cholinergic agonists	(n=1)
Anticholinesterases	(n=1)
Adrenergic antagonists II: -blockers Cholinergic agonists Anticholinesterases Antimuscarinic drugs Skeletal muscle relaxants (n=1)	(n=1)
A) CARDIOVASCULAR SYSEM INCLUDING DRUGS AFFECTING COAGULATION AND THOSE ACTING ON KIDNEYS:	$(N=14 \pm 2)$
General Considerations and Overview of antihypertensive therapy; Diuretics Angiotensin Converting Enzyme (ACE) inhibitors Sympatholytics & vasodilators	(n=2) (n=1) (n=1)
Management of hypertension	
Antianginal: Nitrates & others Calcium channel blockers	(n=1) (n=1)
Pharmacotherapy of chest pain	
Anticoagulants & Coagulants Thrombolytics & Antiplatelet Agents	(n=2)



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Drugs for CCF: Digitalis glycosides, Others agents	(n=2)
Management of CCF	
Antiarrhythmic Agents	(n=1)
Agents used for the management of shock	(n=1)
Hypolipidaemic drugs	(n=1)
Role of Nitric oxide and endothelin to be covered in CVS	DK
E) HAEMATINICS AND HAEMATOPOIETIC FACTORS:	(N=1)
Agents used in therapy of iron deficiency anaemia and megaloblastic anaemia; Erythropoietin, GM-CSF	(n=1)
Management of anaemia	
F) NEUROPSYCHIATRIC PHARMACOLOGY INCLUDING INFLAMMATON, PAIN & SUBSTANCE ABUSE	$(N=15 \pm 2)$
General Considerations Sedative-Hypnotics Psychopharmacology: Antianxiety; Antipsychotics; Antidepressants Antiepileptics Therapy of neurodegenerative disorders: Anti-Parkinsonian agents; cerebral vasodilators/nootropics Local anaesthetics Analgesics: Opioids; NSAIDs Pharmacotherapy of pain including migraine Pharmacotherapy of rheumatoid arthritis and gout	(n=1) (n=2) (n=3) (n=2) (n=1) (n=1) (n=3)
Substance abuse: Management of opioid, alcohol and tobacco addictions G) MISCELLANEOUS TOPICS - I:	$(n=1)$ $(N=6 \pm 2)$
Autocoids (to be covered before pain lectures) Antiallergics: Antihistaminics	(n=1) (n=1)
Drugs used for bronchial asthma	(n=1)
Pharmacotherapy of cough	



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Drugs acting on immune system:		
Immunostimulants, immunosuppressants; pharmacology of vaccines & sera	(n=1)	
Drugs acting on the uterus	(n=1)	
H) CHEMOTHERAPY INCLUDING CANCER CHEMOTHERAPY:	$(N=22\pm2)$	
General considerations	(n=1)	
 Antimicrobial agents: Sulphonamides & Cotrimoxazole Quinoline derivatives Penicillins, Cephalosporins & Other β Lactams Aminoglycosides Macrolides Tetracyclines & Chloramphenicol 	(n=7)	
Pharmacotherapy of UTI		
General principles of Antimicrobial use Antimycobacterial therapy: Anti-Kochs agents; Anti-leprotic agents	(n=1) (n=3)	
Pharmacotherapy of tuberculosis		
Antiprotozoal agents: Antiamoebic, Antimalarials and Anti Kala azar Pharmacotherapy of malaria		
Antiamoebic, Antimalarials and Anti Kala azar	(n=3)	
Pharmacotherapy of malaria		
Antihelminthics	(n=1)	
(against intestinal Nematodes and Cestodes; extra intestinal Nematodes and Trematodes)		
Antifungal agents	(n=1)	
Antiviral agents including antiretroviral agents	(n=2)	
Pharmacotherapy of STDs	(n=1)	
Principles of cancer chemotherapy and their adverse drug reactions (individual agents and regimes need not be taught)	(n=1)	
I) ENDOCRINOLOGY:	$(N=12\pm2)$	

(n=1)

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Introduction to endocrinology	oav
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(including Hypothalamic and Anterior Pituitary hormones) Steroids	(n=1) (n=2)
Glucocorticoids: Use and Misuse	
Oestrogens & antagonists	(n=1)
Progestins & antagonists	(n=1)
Oral contraceptives & profertility agents	(n=1)
Testosterone & anabolic steroids	(n=1)
Fertility control	
Thyroxine and antithyroid agents	(n=2)
Agents affecting calcification	(n=1)
Antidiabetic agents: Insulin; Oral antidiabetic drugs	(n=2)
Pharmacotherapy of Diabetes Mellitus	
J) AGENTS USED IN GASTROINTESTINAL DISORDERS:	(N=2)
Pharmacotherapy of nausea & vomiting	(n=1)

Management of dyspepsia

Pharmacotherapy of peptic ulcer

Management of diarrhoea and constipation

K) PERIOPERATIVE MANAGEMENT: to be covered as a case study

Preanaesthetic medication

Preparation of surgical site: antiseptics etc.

Local Anaesthetics

Skeletal muscle relaxants

Drugs used in post-operative period: analgesics, antiemetics etc.

L) MISCELLANEOUS TOPICS – II (N=5-7)

Drug-Drug Interactions	(n=1)
Drug use at extremes of age, in pregnancy & in organ dysfunction	(n=2)
Use of chelating agents in heavy metal poisonings; Environmental & occupation	nal
toxicants and principles of management (particularly cyanide and CO)	(n=1)
Ocular pharmacology	(n=1)
Dermatopharmacology	(n=1)

General Anaesthetics...DK

Pharmacotherapy of glaucoma and conjunctivitis







M) RATIONAL PHARMACOTHERAPY:

(N=4)

Prescription writing and P-drug concept Rational Drug Use; Essential Drug List (EDL)

Criticism with reference to Fixed Drug Combinations (FDCs)

Use and misuse of commonly used preparations: vitamins, antioxidants, enzymes etc.

d. Term-wise distribution

I term

Introduction General pharmacology Autonomic pharmacology

Drugs acting on cardiovascular system including drugs affecting coagulation and those acting on the kidneys

II term

Prescription writing and P-drug concept
Rational use of drugs; Essential drug list
Neuro-psychiatric pharmacology including inflammation, pain and substance abuse
Miscellaneous topics - I
Chemotherapy
Endocrinology

III term

Agents used in gastro-intestinal disorders

Peri operative management

Miscellaneous topics

Criticism with reference to FDCs

Use and misuse of commonly used preparations: vitamins, antioxidants, enzymes etc.

e. Practicals: Total hours, number & contents

Total hours: 120

Number: 18

Contents:

I term practicals (N=7)

Introduction to Practical Pharmacology, Prescription Writing, Pharmacokinetics I, Routes of Administration: Oral, Routes of Administration: Topical, Routes of Administration: Parenteral, Pharmacokinetics II: Applied Pharmacokinetics





II term practicals (N=7)

Pharmacodynamics I (Isolated Tissue, Cat NM junction), Pharmacodynamics II (Dog: BP and Respiration), Screening Techniques for New Drugs, Adverse Drug Reactions, Rational Pharmacotherapy I, Rational Pharmacotherapy II, Sources of Drug Information including scrutiny of Promotional Literature

(N=4)III term practicals

Case Study 1, Case Study 2 Revision Practicals (n=2)

f. Books recommended:

- 1. Basic & Clinical Pharmacology. Katzung BG (Ed), Publisher: Prentice Hall International Ltd., London.
- 2. Pharmacology & Pharmacotherapeutics. Satoskar RS, Bhandarkar SD (Ed), Publisher: Popular Prakashan, Bombay.
- 3. Essentials of Medical Pharmacology. Tripathi KD (Ed), Jaypee publisher: Medical Publishers (P) Ltd.
- 4. Clinical Pharmacology. Laurence DR, Bennet PN, Brown MJ (Ed). Publisher: Churchill Livingstone

Reference books:

- 2. Goodman & Gilman's The Pharmacological Basis of Therapeutics. Hardman JG & Limbird LE (Ed), Publisher: McGraw-Hill, New York.
- 3. A Textbook of Clinical Pharmacology. Roger HJ, Spector RG, Trounce JR (Ed), Publisher: Hodder and Stoughton Publishers.

Methods Theory, Practical & viva b. Pattern ~ Or Pattern of Theory Examination including Distribution of Marks,

Nature of Question Paper

- i) Total duration -4 hrs (each paper of 2 hrs or 120 minutes)
- Each paper of 3 sections ii)