

M.Phil Pharmacology (Part-I)
PAPER I

TABLE OF SPECIFICATIONS

The grey areas of the courses which cannot be covered or are difficult to cover in MCQ's shall be used for framing SEQ's, which may be split into two parts if necessary; attempt shall be made to avoid duplication between MCQ'S and SEQ's. The objective is to assess the ability of the student in interpretation of scenarios and concise written information.

Distribution of MCQ's and SEQ's with respect to the importance of topics

Topics	No. of MCQs	Total MCQs	No. of SEQs
General Pharmacology	1	17	1
Pharmacology: Definition, History, and its various branches.	1		
Routes of drug administration its advantages and disadvantages.	1		
Pharmacokinetics	5		
Pharmacodynamics	5		
Adverse drug R	2		
Pharmacogenetics	1		
Drug interaction	1		
New drug deveolpment	1	16	2
DRUGS ACTING ON AUTONOMIC NERVOUS SYSTEM (ANS)			
Organization of ANS its subdivisions and innervations	1		
Neurotransmitters in ANS. their synthesis, release and fate.	1		
Sympathetic agonists: Catecholamines and Noncatecholamines	3		
Sympathetic antagonists: Adrenergic receptor Blockers and neuron blockers.	3		
Parasympathetic (Cholinergic) agonists and cholinesterase enzyme inhibitors (anticholinesterases).	2		
Anti-muscarinics	2		
Ganglion stimulants and Ganglion blockers	1		
Neuromuscular Blockers	2		
Glaucoma	1	6	1
DRUGS ACTING ON GASTROINTESTINAL TRACT			
Emetic and anti-emetics	1		
Purgatives	1		
Anti-diarrheal agents	1		
Treatment of Peptic & duodenal ulcer: Antacids, H ₂ -Receptor antagonists, antimuscarinic agents, proton pump inhibitors, prostaglandin antagonists gastrin receptor antagonist and cytoprotective agents.	2		
Drug treatment of chronic inflammatory bowel diseases	1		

AUTACOIDS AND THEIR ANTAGONISTS	2		
Histamine and anti-histamines		8	
serotonin and serotonin antagonist	2		
Prostaglandins and their antagonists	2		
Nasoactive peptides	1		
Miscellaneous	1		
DRUGS ACTING ON RESPIRATORY SYSTEM			
Drugs used for cough			
Anti-tussives, Expectorants and Mucolytic Agents	5	5	1
Sympathomimetic, Xanthine derivatives, Leukotriene receptor antagonists and synthesis inhibitors, Muscarinic receptor antagonists, Cromoglycate, Nedocromil, Cortecosteroids & other Anti-inflammatory drugs etc.			
DRUGS ACTING ON CARDIO-VESCULAR SYSTEM:	3		
Angina pectoris and its drug treatment		25	2
Congestive heart failure & its treatment.	2		
Anti-arrhythmic drugs	2		
Anti-hyperlipidemic.	2		
Coagulants and Anti-coagulants	3		
Anti-hypertensive	4		
Diuretics Renin Angiotensin System	4		
Pulmonary Edema	1		
Acute Left Heart Failure	1		
Fibrinolytic	1		
Antiplatelets	1		
Haemostatis	1		
DRUGS ACTING ON GENITOURINARY SYSTEM			
Oxytocin, Ergot alkaloids and uterine relaxants etc	3	3	
Total		80	7

MCQ's = 80x1 Total Marks = 80

One SEQ's = 7x10 Total Marks = 70

Total Marks of the Paper = 150

Grand Total = 150

Time = 90 Minutes

Time = 90 Minutes

Total Time = 3 Hours

M.Phil Pharmacology (Part-I)
PAPER II

TABLE OF SPECIFICATIONS

The grey areas of the courses which cannot be covered or are difficult to cover in MCQ's shall be used for framing SEQ's, which may be split into two parts if necessary; attempt shall be made to avoid duplication between MCQ'S and SEQ's. The objective is to assess the ability of the student in interpretation of scenarios and concise written information.

Topics	No. of MCQS	MCQS Marks	No. of SEQs
DRUGS ACTING ON CENTRAL NERVOUS SYSTEM			
Introduction	1	26	2+1/2
Sedatives & Hypnotic	2		
Anxiolytics and antidepressants and antimanic drugs	3		
Antiepileptics	3		
Antiparkinsonian and drug used in other neurodegenerative diseases.	4		
Antipsychotics	3		
Opioids analgesics + Antagonist	3		
Alcohol + drugs of abuse	2		
Cerebral Stimulants, Medullary stimulants, Spinal Cord Stimulants.	1		
Anesthetics: General and local	4		
Non steroidal & anti-inflammatory drugs	4	8	1
Disease modifying drugs	2		
Treatment of gout	2		
CHEMOTHERAPY			
Basic principles of chemotherapy	2		

Antibacterials (Folate antagonists)	2	30	2+1/2
Cell wall synthesis inhibitors	4		
Protein synthesis inhibitors	4		
Nucleic acid synthesis inhibitors	2		
Antimycobacterial drugs,	2		
Urinary tract antiseptics	2		
Anti-fungals	2		
Anti-virals	2		
anti-protozoals (anti- malarias, anti-amebiasis, anthelmintics and anti leishmanials)	3		
Anti-neoplastic drugs	5		
IMMUNOPHARMACOLOGY		3	
Pharmacology of immune-suppressants and stimulants	2		
TOXICOLOGY		3	
Pollution and its types (water, air, food)	1		
Poison and principle of treatment of poisoning. Chelating agents and their role in poisoning			
ENOCRINE DRUGS	1	11	1
Hypothalamus & Pituitary hormones			
Thyroid hormone and anti-thyroid drugs	1		
Adrenocorticosteroid & Adrenocortical antagonist	2		
Insulin & Non Insulin hypoglycemic agents	3		
Gonadal Hormones & Inhibitors	3		
Bone Mineral Homeostasis	1		
SPECIAL TOPIC		2	
Pediatric & Geriatric Pharmacology	1		
Dermatologic Pharmacology / Drug interactions	1		

Total		80	7

Note: There will be one LEQ carrying 20 marks in each paper

MCQ's = 80x1

Total Marks = 80

Time = 80 Minutes

SEQ's = 7x10

Total Marks = 70

Time = 70 Minutes

Total Marks of the Paper = 150

Total Time = 3 Hours

Grand Total = 150