

## Table of Specifications

### PhD Entrance Test Pharmacology

S. No	Topic	MCQs
	Level of difficulty	Application
1	<b>General pharmacology</b> <ul style="list-style-type: none"><li>• Interpret the different pharmacokinetic patterns, their clinical significance and factors affecting these parameters.</li><li>• Correlate the concept of molecular mechanistic to the therapeutics.</li><li>• Identify the genetic principles in drug disposition</li></ul>	8
2	<b>Autonomic Nervous System (ANS)</b> <ul style="list-style-type: none"><li>• Correlate the physiology of autonomic receptors with the therapeutic application</li></ul>	8
3	<b>Central Nervous System (CNS)</b> <ul style="list-style-type: none"><li>• Correlate the patho-physiology of psychiatric illnesses to their management</li><li>• Differentiate between different pharmacological agents (LA, GA, opioids, NSAIDs) used in the pain management</li><li>• Justify the use of antiparkinsonian drugs correlating it to the underlying pathophysiology of the disease</li><li>• Analyze the effects of anti-epileptic drugs in relation to neuro-excitatory illnesses</li><li>• Strategize the management of migraine in accordance with the underlying disease mechanism</li><li>• Correlate the effects of substances of abuse (alcohol, opioids, heroin) on body to its plan for aversion therapy</li><li>• Critique on the pharmacological Effects of sedative/Hypnotics</li></ul>	13
4	<b>Cardiovascular System (CVS)/Diuretics</b> <ul style="list-style-type: none"><li>• Relate the pathophysiology of heart and vessels to its treatment modalities</li><li>• Recollect the anatomical physiological basis of renal system. Differentiate therapeutic application of different diuretics</li></ul>	18

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5	<b>Chemotherapy</b> <ul style="list-style-type: none"><li>• Justify the treatment modalities for various microbes (bacteria, viruses, helminths, parasites) according to mode of action, resistance patterns and regional current practices</li><li>• Appraise the principles of cancer chemotherapy in relation to its current therapeutic modalities</li></ul>	13
6	<b>Endocrinology</b> <ul style="list-style-type: none"><li>• Correlate the pathophysiological basis of pituitary, thyroid and adrenal hormones with their therapeutics.</li><li>• Correlate types of diabetes mellitus to their different treatment modalities</li><li>• Justify the clinical use of sex hormones in relation to reproductive physiology</li><li>• Correlate the patho-physiological basis of osteoporosis to its pharmacological management.</li></ul>	7
7	<b>Blood</b> <p>Justify the management plan of anemia, coagulation disorders and dyslipidemias by correlating it to the patho-physiological basis of disease</p>	6
8	<b>Respiration</b> <p>Justify the management plan of obstructive pulmonary disorders (Asthma, COPD).</p>	5
9	<b>Gastrointestinal System (GIT)</b> <p>Justify the management plan of common disorders of gastrointestinal tract (peptic ulcer, vomiting, constipation, gastropathies, diarrhea).</p>	6
10	<b>Misc topics</b> <p>Outline the essential pharmacological principles of toxicology.</p>	1
11	<ul style="list-style-type: none"><li>• Research Methodology</li><li>• Biostatistics/Analytical</li><li>• Medical Writing/ Bioethics</li></ul>	15
	<b>Total</b>	<b>100 marks</b>