

## **Table of Specifications**

## **MPhil Entrance Exam**

## **Chemical Pathology**

Sr. No	Торіс	MCQs
	Level of Difficulty	Application
1.	General Pathology	10
2.	<ul> <li>Clinical Chemistry Pathophysiology- I including following topics:</li> <li>Electrolytes and Acid Base Disorders</li> <li>Liver Function Tests</li> <li>Renal Function Tests</li> </ul>	10
3.	Clinical Chemistry Pathophysiology- II including following topics: Cardiac biomarkers Lipid Disorders Iron Disorders Disorders of Bones Others	10
4.	Basic Laboratory Principles Ouality Management Laboratory Water Basic Instrument Handling Centrifuge Water Bath Pipettes Glass ware Refrigerators Osmometers Analytical Balance PH Meter	10
5.	Analytical Techniques /Lab instruments Optical Techniques Electrochemistry Electrophoresis Lab Automation ELISA	5

	Total	100
11	o Mathematics	10
	O LIBIOL	10
10	<ul> <li>Medical writing/Bioethics</li> <li>English</li> </ul>	10
	<ul> <li>Biostatistics/Analytical</li> </ul>	
9.	<ul> <li>Research Methodology</li> </ul>	10
	<ul> <li>Transcription/ Translation in Prokaryotes&amp; Eukaryotes</li> </ul>	
	<ul> <li>DNA Replication, Damage and Repair</li> </ul>	
	<ul> <li>DNA regulatory sequences and regulatory protein</li> </ul>	
	<ul> <li>Protein: Structure and Function</li> </ul>	
	<ul> <li>RNA: Structure and Function &amp; Types</li> </ul>	
ō.	Molecular Biology & Molecular Biology Techniques <ul> <li>DNA: Structure and Function</li> </ul>	10
8.	Laboratory Information System	
	<ul> <li>Preanalytical variables and biological variation</li> </ul>	
	<ul> <li>Establishment and use of reference values</li> </ul>	
<i>.</i>	<ul> <li>Clinical evaluation of methods</li> </ul>	10
7.	<ul> <li>Pituitary Disorders</li> <li>Laboratory Management</li> </ul>	
	Adrenal Disorders	
	<ul> <li>Parathyroid Disorders</li> </ul>	
	• Thyroid Disorders	
•	<ul> <li>Diabetes Mellitus</li> </ul>	5
6.	Special Clinical Chemistry Pathophysiology I including following topics:	-
	o HPLC o GC/MS	
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