

<u>Table of Specification -PhD Pathology (Chemical Pathology) Spring 2024</u> <u>NUMS Entry Test</u>

Sr. No	Topic Level of Difficulty	MCQs
2.	Clinical Chemistry Pathophysiology- II including following topics:	10
3.	Basic Laboratory Principles Ouality Management Laboratory Water Basic Instrument Handling Centrifuge Water Bath Pipettes Glass ware Refrigerators Osmometers Analytical Balance pH Meter	10
4.	Analytical Techniques /Lab instruments Optical Techniques Electrochemistry Electrophoresis Lab Automation ELISA HPLC GC/MS	10
5.	Special Clinical Chemistry Pathophysiology I including following topics	10

9.	 DNA/RNA Extractions Restriction Endonucleases Recombinant DNA technology 	05
	 Transcription/ Translation in Prokaryotes& Eukaryotes Techniques PCR types and procedure 	
8.	 Molecular Biology DNA: Structure and Function RNA: Structure and Function & Types Protein: Structure and Function DNA regulatory sequences and regulatory protein DNA Replication, Damage and Repair 	10
7.	Laboratory Management	10
6.	Special Clinical Chemistry Pathophysiology II including following topics	10