

**M. PHIL EXAMINATIONS (PRIMARY AND FINAL)**  
**BIOCHEMISTRY**  
*Table of Specifications (TOS)*

**FOR MAJOR SUBJECT (COMPULSORY):**

Total Marks	SEQs 150	MCQs 150
Topic	SEQs	MCQs
Physiochemical Principles and acid base balance	1	7
Chemistry of Carbohydrates	0.5	7
Chemistry of Proteins	0.5	7
Chemistry of Lipids	0.5	7
Bioenergetics and Energy Metabolism	0.5	7
Vitamins	1	8
Minerals	0.5	7
Enzymes	1	8
Carbohydrate Metabolism	1	12
Protein Metabolism	1	12
Lipid Metabolism	1	12
Nucleic Acids	0.5	7
Nucleic Acid Metabolism, Protein Synthesis, Biotechnology	1	8
Nutrition	1	7
Liver		7
Liver Function Tests	0.5	3
Xenobiotics	0.5	
Hemoglobin and Heme Metabolism	1	5
Endocrinology	1	12
Biochemical Techniques	1	7
<b>Total</b>	<b>15</b>	<b>150</b>

Each MCQ will be of 1 mark each while each SEQ will be of 10 marks each.

**FOR MINOR SUBJECT (OPTIONAL):**

<b>Total Marks 100</b>	
<b>Topic</b>	<b>MCQs</b>
Body Fluids and Acid Base Balance	5
Chemistry of Carbohydrates	6
Chemistry of Proteins	6
Chemistry of Lipids	5
Biological Oxidation and Bioenergetics	6
Vitamins	7
Minerals	5
Enzymes	7
Protein and Amino Acid Metabolism	10
Carbohydrate Metabolism	10
Lipid Metabolism	7
Nucleic Acids	5
Nucleic Acid Metabolism, Protein Synthesis, Biotechnology	7
Nutrition	7
Biochemistry of Digestive Tract	7
<b>Total 100</b>	

Each MCQ will carry 1 mark.