



Master degree in (Medical Biochemistry and Molecular Biology)

Blueprint of (Biochemistry of Protein) course (Master)

Course Code: (BIC504BP, BIC509BP, BIC510BP)

The total marks of this course are 150, divided as:

- Workplace-based assessment (30 marks)
- Written exam (120 marks), distributed as follows:

Course content	Teaching hours	Relative weight to the total marks	Total Marks	MCQ Marks	No of exam Q (MCQ)	Short essay questions Marks	No of exam Q (short essay questions)
Amino acids & peptides chemistry	7	11.67%	14	10		4	
Three-dimensional structure of protein and function a) Primary, secondary, tertiary and quaternary structure. b) Protein-protein interactions. c) Protein denaturation and renaturation.	7	11.67%	14	10		4	
Protein folding and stability: a) Definition - processing. b) Quality control system. c) Unfolded protein response in the cytosol and endoplasmic reticulum. d) Degradation of proteins. e) Conformational diseases	7	11.67%	14	10		4	



associated with unfolding of various proteins.							
Plasma proteins: a) Enzymes. b) Hormones. c) Transport or binding proteins. d) Proteins involved in immune defense, inflammatory response and blood clotting.	7	11.67%	14	10		4	
Globular protein structure and function	4	6.67%	8	5		3	
Fibrous protein structures and function	4	6.67%	8	5		3	
Enzymes action, kinetics and regulation.	14	23.33%	28	20		8	
Pediatrics	5	8.33%	10	7		3	
Internal medicine	5	8.33%	10	7		3	
Total	60	100%	120	84		36	

Head of Biochemistry & Molecular Biology Department
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