

Paper wise distribution of topics
Year: First MBBS Subject: Biochemistry

Paper	Section	Paper 1 Topics	Competency nos.
I	A	MCQs on all topics of the paper I	BI
	B & C	Basic Biochemistry	1.1
		Enzymes	2.1-2.7
		Chemistry & metabolism of carbohydrates	3.1-3.10
		Chemistry & metabolism of lipids	4.1-4.7
		Biological oxidation	6.6
		Xenobiotics	7.5
		Antioxidants & defence system	7.6-7.7
		Nutrition	8.1-8.5
		Extracellular matrix	9.1-9.3
		Oncology , oncogenesis & immunity	10.1-10.5
		Biomedical waste	11.1
		Physical characteristics and chemical composition of CSF	11.15
		Energy contents of lipids, carbohydrates & proteins in common food items, Advantages of unsaturated fats. Disadvantages of saturated and trans fats in food	11.23 & 11.24
		AETCOM- 1.4	
		Paper 2 topics	
II	A	MCQs on all topics of the paper II	
	B & C	Chemistry & metabolism of proteins	5.1-5.5
Integration & starvation		6.1	
Nucleic acid metabolism		6.2-6.4	
Vitamins		6.5	
Water electrolyte balance & acid base balance		6.7-6.8	
Chemistry & metabolism of proteins		5.1-5.5	
Mineral metabolism		6.9-6.10	
Haemoglobin chemistry and metabolism		6.11-6.12	
Organ function test		6.13-6.15	
Molecular biology		7.1-7.3	
Genetic engineering		7.4	
Urine: Screening of inborn errors.		11.5	
Principle, application and working of following lab equipments/techniques: pH meter, paper chromatography of amino acids, protein electrophoresis, TLC, PAGE, Electrolyte analysis by ISE, ABG analyzer, ELISA, immunodiffusion, auto analyzer, quality control, DNA isolation from blood/tissue		11.16	
		For long answer question and scenario based / application questions, topics will not be repeated	