



MBBS Course
DEPARTMENT OF BIOCHEMISTRY
STUDENT'S ACADEMIC PERFORMANCE RECORD

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THIRD TERM					
Card No - 5 : Clinical Biochemistry and Clinical Endocrinology					
Item No.	Name of Item	Date of Beginning	Full Marks	Marks Obtained	Remarks & Sign
1	Clinical biochemistry- S I unit, Laboratory hazards, Sample collection. Photometry		10		
2	Clinical enzymology and lipid profiles of blood.		10		
3	Diagnosis of diabetes mellitus. OGTT, IGT, IFG and Hb A _{1c} .		10		
4	Thyroid function tests and interpretation.		10		
5	Commonly done LFT. Jaundice.		10		
6	Renal function tests and interpretation		10		
	No. of attendance in the tutorial classes of the card		Out of		
	Marks obtained				
	Remarks				

Signature of the Head of the Department

Signature of the Batch Teacher

Card-6 Fundamental of Molecular Biology & Genetics					
Item No.	Name of Item	Date of Beginning	Full Marks	Marks Obtained	Remarks & Sign
1	Nucleic acids, nucleotides, DNA, RNA, DNA organization, Cell cycle.		10		
2	The central dogma, Genome, Gene, Genetic code, Codon, Mutation, mutagens, Genotype, Phenotype, trait, allele.		10		
3	Replication, Transcription and post transcriptional modification.		10		
4	Translation and post translational modification.		10		
5	Recombinant DNA technology, PCR, Cloning.		10		
6	Genetic disorders.		10		
	No. of attendance in the tutorial classes of the card		Out of		
	Marks obtained				
	Remarks				

Name Phone no.....

Father's name Phone no.....

Mother's name Phone no.....

Mailing address Phone no.....

Roll No.....Batch.....Group.....

Session Univ. Reg. No.

Date of Admission Date of Birth

Blood Group

Previous Academic Records:

Examination Year of Passing GPA Board

S.S.C

FIRST TERM					
Card No- 1: Biophysics and Biomolecules					
Item No.	Name of Item	Date of Beginning	Full Marks	Marks Obtained	Remarks & Sign
1	Introduction of biochemistry, acids, base, p^H , p^b , buffer, Henderson-Hasselbalch equation.		10		
2	Solutions, crystalloid, colloid, dialysis and isotopes.		10		
3	Carbohydrates		10		
4	Lipids		10		
5	Amino Acids and Protein		10		
6	Enzymes, coenzymes, cofactors, isoenzymes		10		
	No. of attendance in the tutorial classes of the card		Out of		
	Marks obtained				
	Remarks				

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Card No-2 : Food, Nutrition and Vitamins					
Item No.	Name of Item	Date of Beginning	Full Marks	Marks Obtained	Remarks & Sign
1	Basic concepts of Nutrient, food, diet, balanced diet, essential dietary components, total calorie calculation, DRI, RDA, MR, BMR, BMI, SDA.		10		
2	Dietary fibers, nutritional importance of carbohydrate, lipid & protein, glycaemic index (GI) of food.		10		
3	Minerals- (macro & micro), trace elements, common nutritional disorders, PEM, BMI, obesity, iron metabolism and its deficiency, iodine deficiency.		10		
4	Water soluble vitamins.		10		
5	Fat soluble vitamins.		10		
	No. of attendance in the tutorial classes of the card		Out of		
	Marks obtained				
	Remarks				

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SECOND TERM					
Card No- 3 : Digestion, Absorption, Bioenergetics and Metabolism					
Item No.	Name of Item	Date of Beginning	Full Marks	Marks Obtained	Remarks & Sign
1	Digestive juices - Local hormone of GIT, digestion & absorption of carbohydrate, lipid, protein.		10		
2	Bioenergetics - biological oxidation, high energy phosphates, oxidative phosphorylation, respiratory chain, metabolism-definition, phases; anabolism, catabolism.		10		
3	Carbohydrate metabolism - glycolysis, fate of pyruvate, TCA cycle, HMP pathway, gluconeogenesis, glycogenesis, glycogenolysis, blood glucose regulation.		10		
4	Lipid metabolism : lipolysis, Beta-oxidation of fatty acid, fate of Acetyl-coA, ketone bodies, ketosis & its pathogenesis. Lipoproteins & their metabolism, Cholesterol metabolism.		10		
5	Protein metabolism : Amino acid pool, Transamination, Deamination. Source & fate of ammonia, ammonia intoxication, Urea cycle.		10		
	No. of attendance in the tutorial classes of the card		Out of		
	Marks obtained				
	Remarks				

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Card No- 4: Renal Biochemistry, Body Fluid, Electrolytes and Acid Base Balance					
Item No.	Name of Item	Date of Beginning	Full Marks	Marks Obtained	Remarks & Sign
1	Renal biochemistry- GFR, tubular load, TM, renal threshold, plasma clearance, osmolar clearance, free water clearance, acidification of urine.		10		
2	Body fluid- Body fluid compartments, daily water intake & output, water turnover, body fluid volume regulation, volume disorders and diuresis.		10		
3	Acid-Base Balance- origin of acid & bases, maintenance of static blood p^H . Acid base disorders, their compensation & correction, anion gap and base excess.		10		
4	Serum Electrolytes- Serum electrolytes & their reference ranges. Functions, regulations, hypo & hyper states of serum $[Na^+]$, $[K^+]$, $[Ca^{++}]$ & $[PO_4]$		10		
	No. of attendance in the tutorial classes of the card		Out of		
	Marks obtained				
	Remarks				

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