NAME OF FACULTY :

DEPARTMENT : DMLT
SEMESTER : 2nd
SUBJECT : CLINICAL BIOCHEMISTRY

WEEK	LECTURE DAY	THEORY TOPIC	PRACTICAL DAY	PRACTICAL TOPIC
1 st	1 st	Blood glucose sugar estimation,screening test and glucose tolerance test (GTT) Metabolism of Glucose	1 st	Preparation of reagents (stock and working)
	2 nd	Metabolism of Glucose		
	3rd	Principle and Procedure of estimation of Glucose		
2 nd	4 th	Reference values and Clinical Significance	2 nd	Demonstration of Estimation of blood glucose/sugar (Folin-Wu method)
	5 th	Renal Threshold		
	6 th	Importance of ST/GTT		
3 rd	7th	Pocedure of ST/GTT	3 rd	Performance of Estimation of blood glucose/sugar (Folin-Wu method)
	8th	Clinical Importance of Blood Sugar, ST/GTT		
	9th	Blood urea Formation of Urea		
4th	10th	Excretion of Urea	4 th	Demonstration of Estimation of blood glucose/sugar (O-toluidine method)
	11th	Principle and procedures of different methods of urea estimation		
	12th	Principle and procedures of different methods of urea estimation		

5th	13th	Reference values and Clinical Importance of Blood Urea estimation	5 th	Performance of Estimation of blood glucose/sugar (O-toluidine method)
	14th	Serum Creatnine: Introduction		
	15th	Principle and procedure of various estimation methods of Creatinine		
6th	16th	Principle and procedure of various estimation methods of Creatinine	6 th	Demonstration of Estimation of blood glucose/sugar (GOD-POD Enzymatic Method)
	17th	Reference values and Clinical importance of Creatinine estimation		
	18th	Serum proteins: Introduction		
7th	19th	Different methods of estimation including principles and procedures	7 th	Performance of Estimation of blood glucose/sugar (GOD-POD Enzymatic Method)
	20th	Different methods of estimation including principles and procedures		
	21st	Reference Values and Clinical Importance of Serum Proteins		
8th	22nd	CLASS TEST	8 th	Performance of ST/GTT
	23rd	Electrolytes and trace elements: Introduction		
	24th	Principles and procedures of estimation of Na		
9th	25th	Reference Values and Clinical Importance of Na	9 th	Serum urea estimation
	26th	Principles and procedures of estimation of K		
	27th	Reference Values and Clinical Importance of K		
10 th	28th	Principles and procedures of estimation of Cl	10 th	Serum creatnine estimation
	29th	Reference Values and Clinical Importance of Cl		
	30th	Uric Acid: Introduction		
11 th	31st	Principles and procedures of various estimation methods	11 th	Serum uric acid estimation
	32nd	Principles and procedures of various estimation methods		
	33rd	Reference values and Clinical Importance of Uric Acid estimation		
12 th	34th	CLASS TEST	12 th	Plasma and serum protein estimation
	35th	Quality Assurance in Biochemistry as per National Standards		

		Introduction of Quality Control		
	36th	Internal quality assurance		
13 th	37th	Internal quality assurance	13 th	Estimation of electrolyte levels of Na+ by colorimetric method
	38th	External quality assurance		
	39th	External quality assurance		
14 th	40th	Discussion of Important Questions Unit 1	14 th	Estimation of electrolyte levels of K+ by colorimetric method
	41st	Discussion of Important Questions Unit 2		
	42nd	Discussion of Important Questions Unit 3		
15 th	43rd	Discussion of Important Questions Unit 4	15 th	Estimation of electrolyte levels of Cl- by colorimetric method
	44th	Discussion of Important Questions Unit 5		
	45th	Discussion of Important Questions Unit 6		