

Lesson plan

Name of the Faculty: Mr. Lovepreet Singh

Yadav Discipline : DMLT

Semester : 2nd

Subject : Clinical Biochemistry

Lesson Plan Duration : 15 weeks

Workload(Lecture /practical)per week (n hours) = Lecture= 03, Practical=02

Week	Theory		Practical	
	Lecture day	Topics(including assignment/test)	Practical Day	Topic
1	1	Introduction to Biochemistry	1	Handling and maintenance of balance
	2	Definition of Biochemistry		
	3	Importance of Biochemistry		
2	4	Volumetric apparatus	2	Handling and maintenance of centrifuge
	5	Calibration		
	6	Calibration of different volumetric apparatus		
3	7	Definition of Serum	3	Handling and maintenance of glucometer
	8	Separation of Serum		
	9	Definition of Plasma		
4	10	Separation of Plasma	4	Handling and maintenance of colorimeter
	11	Protein Precipitation		
	12	Different Protein Precipitating reagents		
5	13	Protein Free Filtrate	5	Collection of blood by different methods
	14	Preparation of PFF		
	15	Test 1 st unit		
6	16	Types of different body fluids	6	Separation of Serum
	17	Types of different preservatives		
	18	Collection and preservation of blood		
7	19	Collection and preservation of urine	7	Separation of Plasma
	20	Collection and preservation of stool		
	21	Collection and preservation of CSF		
8	22	Collection and preservation of other body fluids	8	Preparation of reagents
	23	test 2 nd unit		
	24	Assignment of 2 nd unit		
9	25	viva 1,2, unit	9	Perform GTT by GOD-POD Method
	26	Principle and estimation of blood glucose		
	27	Principle and estimation of GTT		
10	28	Reference values	10	Estimation of uric acid
	29	Renal Threshold		
	30	Test 3 rd unit		
11	31	Clinical importance of blood glucose	11	Estimation of urea
	32	Blood urea		
	33	Formation of urea		

12	34	Excretion of urea	12	Estimation of creatinine
	35	Principle and procedure of urea estimation		
	36	Reference values		
13	37	Clinical importance	13	Estimation of plasma protein
	38	Introduction of serum proteins		
	39	Principle and procedure of protein estimation		
14	40	Reference values	14	Estimation of serum protein
	41	Principle and procedure of uric acid estimation		
	42	Reference values		
15	43	Clinical importance	15	Estimation of glucose
	44	Revision of different clinical tests		
	45	Viva of different principles and procedures		