

Lesson plan

Name of the Faculty: Mr. Lovepreet Singh

YadavDiscipline :DMLT

Semester : 4th

Subject : Analytical Clinical Biochemistry

Lesson Plan Duration :15 weeks

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

Week	Theory	Topics(including assignment/test)	Practical	Topic
	Lecture day		Practical Day	
1	1	Introduction to Biochemistry	1	Urea clearance test
	2	Introduction of urine analysis		
	3	Physical composition of urine		
2	4	Chemical composition of urine	2	Creatinine clearance test
	5	Macroscopy and microscopy of urine		
	6	Qualitative analysis of proteins		
3	7	Qualitative analysis of sugar	3	Analysis of urine for glucose
	8	Qualitative analysis of ketone bodies		
	9	Qualitative analysis of billirbin		
4	10	Qualitative analysis of occult blood	4	Analysis of urine for bilirubin
	11	Glycosuria		
	12	Albuminuria		
5	13	Clinical significance of urine analysis	5	Analysis of urine for proteins
	14	Test 1 st unit		
	15	Renal function test		
6	16	Urea clearance test	6	Fecal fat test
	17	Creatinine clearance test		
	18	Clinical significance of RFT		
7	19	Other test included in RFT	7	Analysis of urine for occult blood
	20	test 2 nd unit		
	21	Assignment of 2 nd unit		
8	22	viva 1,2, unit	8	Analysis of stool for occult blood
	23	Stool chemistry		
	24	Physical characteristics of stool		
9	25	Chemical composition of stool	9	Analysis of urine for ketone bodies
	26	Detection of occult blood in stool		
	27	Detection of excess fat in stool		
10	28	Significance of occult blood in stool	10	Microscopy of urine
	29	Significance of excess fat in stool		
	30	Test 3 rd unit		
11	31	Electrophoresis	11	Dip strip test of urine
	32	Chromatography		
	33	Principle and theory of Electrophoresis		

12	34	Types of Electrophoresis	12	Estimation of creatinine
	35	Clinical Significance of Electrophoresis		
	36	Principle and theory of Chromatography		
13	37	Types of chromatography	13	Estimation of urea
	38	Clinical Significance of chromatography		
	39	Clinical Significance of T3, T4 and TSH		
14	40	Anti- thyroid Peroxidase test	14	Estimation of protein in urine
	41	Free thyroid profile test		
	42	Definition and introduction of auto analyzer		
15	43	Classification and types of auto analyzer	15	Estimation of glucose
	44	Revision of different clinical tests		
	45	Viva of different principles and procedures		