Performa	Hindu Co	ollege of Pharmacy, Sonepat		
		Lesson Plan		
Name of the F	aculty	: SHILPA JAIN		
Discipline		: D. Pharmacy		
Semester		: 1st Year		
Subject		: BIOCHEMISTRY		220)
esson Plan D		: 25 weeks (from Aug , 2	-	J20)
	cture/practica	l) per week (in hours): Lecture-02,Pra	cticals-9nr	Duestical
Week	lecture day	Theory	Practical day	Practical
	lecture day	Topic (including assignment/test)	Practical day	Topic Intro. Of carbohydrates
	1st	Introduction of biochemistry	1st (Batch A)	intro. Of carbonyurates
1 <sup>st</sup> (Aug	150			do
	2nd	Cell as a basic unit	2nd(Batch B)	
1st				do
week)	3rd		Batch C	
	4th			
		Chemistry and classification of	1	Identification test of
		proteins		carbohydrates
	1st		1st (Batch A)	
2 <sup>nd</sup> (Aug		Polypeptides and amino acid classification	2nd(Batch B)	do
2 (Aug 2 <sup>nd</sup>	2nd			40
week)			Batch C	do
Weeky	3rd		baten e	40
	4th			
				Diff. between aldose and
				ketose
		Physical and chemical properties of		
	1st	proteins	1st (Batch A)	
3 <sup>rd</sup> (Aug 3rd	2nd	Structure of proteins	2nd(Batch B)	Do
			Batch C	Do
week)	3rd			20
	4th			
				Identification of starch
		Qualitative test of proteins and		
	1st	deficiency disease of proteins	1st (Batch A)	
4 <sup>th</sup> (Aug.	and	Brief chemistry and role of	2nd(Batch B)	do
4"(Aug. 4 <sup>th</sup>	2nd	carbohydrates		
week)	Qued		Datak C	do
	3rd 4th		Batch C	
	401			Idontifu giuan annala -f
				Identify given sample of carbohydrate
	1st	Classification of carbohydrates	1st (Batch A)	
5 <sup>th</sup> (Sept	2nd	Chemical reaction of carbohydrates	2nd(Batch B)	do
1st	-		, ,	
week)	ard		Batch C	- L
	3rd 4th		Batch C	do
a.1/c	4th		4 -+ (D -+ -+ -+ -+ -+	
6th(Sept.2 <sup>nd</sup>	1st	Qualitative test of carbohydrates	1st (Batch A)	

				Identify given sample of carbohydrate
	2nd	Deficiency disease of carbohydrates metabolism	2nd(Batch B)	do
week)	3rd		Batch C	do
WEEKJ	4th			
		Chemistry of lipids and Classification		Identification of given sample
	1st	of lipids	1st (Batch A)	of carbohydrate
7th (Sept.	2nd	Role of lipids in biological membrane and Deficiency disease of lipid metabolism	2nd(Batch B)	do
3rd week)	3rd		Batch C	do
	4th			
	1st	Introduction of vitamins and its classification	1st (Batch A)	Physical property of proteins
8th(Sept. 4th week)	2nd	Study fat soluble vitamins	2nd(Batch B)	do
	3rd		Batch C	do
	4th			
9th(oct.	1st	Study water soluble vitamins (B <sub>1</sub> ,B <sub>2</sub> ,B <sub>3</sub> ,B <sub>5</sub> ,B <sub>6</sub> )	1st (Batch A)	Colour reaction of proteins
1st				
	2nd	Study water soluble vitamins (B <sub>7</sub> ,B <sub>9</sub> ,B <sub>12</sub> ,vit C )	2nd(Batch B)	do
week)	3rd		Batch C	do
	4th			
	1st	Study Cofactors	1st (Batch A)	Precipitation reaction of proteins
10th(oct. 2nd	2nd	Role of water in life process	2nd(Batch B)	do
week)	3rd		Batch C	do
	4th			
11th(Oct.	1st	Study Cofactors	1st (Batch A)	Identify given sample of protein
3rd	2nd	Role of water in life process	2nd(Batch B)	do
week)	3rd		Batch C	do

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	4th			
12th(oct.	1st	Introduction of minerals and and its classification	1st (Batch A)	Identify given sample of protein
4th week)	2nd	Study minerals (Ca, P, K, Cl ) in detail	2nd(Batch B)	do
	3rd 4th		Batch C	do
13 <sup>th</sup> (Nov.	1st	Study minerals ( Fe, Mg, S, I ) in detail	1st (Batch A)	Physical properties of urine
1st week)	2nd	Study minerals (Cu, F, Zn, Mo ) in detail	2nd(Batch B)	do
WEEKJ	3rd		Batch C	do
	4th			
14th(Nov.	1st	Brief concept of enzyme action	1st (Batch A)	Normal inorganic constituents of urine
2 <sup>nd</sup>	2nd	Naming and classification of enzymes	2nd(Batch B)	do
week)	3rd		Batch C	do
	4th			
15 <sup>th</sup> (Nov. 3rd week )	1st	Mechanism of enzyme action	1st (Batch A)	Normal organic constituents of urine
	2nd	Factors affecting enzyme action and Enzyme inhibition	2nd(Batch B)	do
	3rd		Batch C	do
	4th			

16 <sup>th</sup> (Dec.	1st	Diagnostic and Therapeutic		Abnormal constituents of
1 <sup>st</sup> week )		applications of enzymes	1st (Batch A)	urine
	2nd	Introduction of metabolism and		do
		metabolism of carbohydrates	2nd(Batch B)	
	3rd		Batch C	do
	4th			
17th(Dec.	1st	Study glycolysis		Identify given sample of
2 <sup>nd</sup> week )			1st (Batch A)	urine
	2nd	citric acid cycle	2nd(Batch B)	do
	3rd		Batch C	do

	4th			
18th (Jan. 2 <sup>nd</sup> week )	1st	Study gluconeogenesis, glycogenesis	1st (Batch A)	Identify given sample of urine
	2nd	Study glycogenolysis and ETC	2nd(Batch B)	do
	3rd		Batch C	do
	4th			
19th (Jan. 3 <sup>rd</sup> week )	1st	Abnormalities due to metabolism of carbohydrates	1st (Batch A)	Viva- voice
	2nd	Study urea cycle and inborn error of metabolism	2nd(Batch B)	do
	3rd		Batch C	do
	4th			
20 <sup>th</sup> (Jan.	1st	Study metabolism of lipids	1st (Batch A)	Introduction of lipids
4 <sup>th</sup> week)	2nd	β oxidation of fatty acids	2nd(Batch B)	do
-	3rd	, , , , , , , , , , , , , , , , , , ,	Batch C	do
	4th			
21 <sup>th</sup> (Feb. 1st week )	1st	Study fatty acid synthesis	1st (Batch A)	Physical and chemical properties of fatty acids
	2nd	mitochondrial fatty acid synthesis	2nd(Batch B)	do
	3rd		Batch C	do
	4th		Baterie	
22 <sup>th</sup> (Feb. 2 <sup>nd</sup> week )	1st	Cholesterol synthesis	1st (Batch A)	Physical and chemical test of cholestrol
2 Weeky	2nd	ketogenesis	2nd(Batch B)	do
	3rd		Batch C	do
	4th			
23 <sup>th</sup> (Feb. 3 <sup>rd</sup> week )	1st	Blood, erythrocytes- abnormalities of erythrocytes	1st (Batch A)	Identify given sample of lipid
	2nd	Lymphocytes and platelets, their role in health	2nd(Batch B)	do
	3rd		Batch C	do
	4th			
24 <sup>th</sup> (Mar. 1st week )	1st	Characteristics of normal and abnormal urine	1st (Batch A)	Route of administration of drug
	2nd	Abnormal constituents of urine and their identification test	2nd(Batch B)	do
	3rd		Batch C	do
	4th			
25 <sup>th</sup> (Apr 1 <sup>st</sup> week)	1st	Practical sessional		
weekj	2nd	Revision for exam		