Course Title:

224 PHL (Biochemistry)

Course description:

This course deals with types of normal metabolism of carbohydrates, lipids, proteins, and minerals. The practical part of this course deals with determination of serum or urine of some items as glucose, protein, hemoglobin, urea, uric acid, lipids, and some enzymes, also the clinical significant of each.

Determination of serum glucose. • Determination of serum proteins. • Determination of serum hemoglobin. • Determination of serum urea. • Determination of serum uric acid. • Determination of serum lipids. • Determination of serum of some enzymes. • Urine analysis. • Books: Thomas Devlin, John Wily., latest edition • Fundamentals of clinical chemistry •

N.M. Teitz., W.B.Saunders.co, USA, latest edition •

Marks Distribution:	
Practical exam (1)	

Practical exam (1)	6 •
Quiz (1)	3 •
Practical Exam (2)	6 •
Quiz (2)	3 •
Reports	2 •
	(Total mark $= 18$)

Labs Distribution:

Week 2	Introduction
Week 3	Determination of Serum Glucose Concentration
Week 4	Determination of Serum Total protein Concentration
Week 5	Determination of Serum Non Protein Nitrogen Concentration (Urea, Uric acid, and creatinin
Week 6	Determination of Serum Bilirubin Concentration Determination of Blood Hemoglobin Concentration
	Determination of Serum Iron Concentration
Week 7	Determination of Serum Lipids Concentration (Total lipids, Triglycerides, and Cholesterol)
Week 8	Enzymes Introduction
Week 10	Practical exam & Quiz (1)
Week	Determination of Serum Lactate Dehydrogenase (LDH)&
11	Aminotransferases Activities
Week 12	Determination of Serum Phosphatases Activities
Week 13	Determination of Serum Creatine Kinase (CK) and α Amylase activities
Week 14	Urine Analysis
Week 16	Practical exam & Quiz (2)