

PHL 213
Biochemistry-1

LECTURES' OUTLINE

Week	Lecture number	Date	Topic
1	1		Chemistry and classifications of amino acids
	2		Acid-base, physical and chemical properties of amino acids
2	3		Classification and functions of proteins
	4		Levels of protein structure Protein denaturation
3	5		Hemoglobin and myoglobin
	6		Enzyme classification and mechanism of action
4	7		Enzyme kinetics and inhibition of enzyme activity
	8		Regulation of enzyme activity
5	9		Co-enzymes
	10		Clinical uses of the enzymes in diagnosis of diseases
6	11		First Assessment Test
	12		Stages in the extraction of energy from fuels
7	13		Oxidation of pyruvate to acetyl-CoA
	14		Tricarboxylic acid cycle
8	15		Oxidative phosphorylation
	16		Heme biosynthesis and its regulation
9	17		Heme catabolism and formation of bile pigments
	18		Porphyrias and jaundice
10	19		Synthesis of purine nucleotides
	20		Degradation of purine nucleotides
11	21		Synthesis of pyrimidine nucleotides
	22		Degradation of pyrimidine nucleotides
	23		DNA Structure and replication
13	24		DNA repair
	25		RNA structure
14	26		Second Assessment Test
	27		Transcription
	28		Genetic Code
15	29		Translation (protein synthesis)
	30		Regulation of gene expression

COURSE EVALUATION:

<u>Continuous Assessment:</u> First Assessment Test Second Assessment Test	30 % 30 %
Total	60 %
<u>Final Examination:</u> Final Paper	40 %
Total	40 %
Total Marks	100 %