School of Biological and Life sciences Department of Biological and Life Sciences Mid Term Examination

Exam Date: 27 Sep 2023 Time: 90 Minutes

Marks: 50

Sem III - MSBC6004 - Protein Lipid and Nucleotide Metabolism

Your answer should be specific to the question asked Draw neat labeled diagrams wherever necessary

1)	Write full form of ADP, GDP,CDP and UDP?	K2 (2)
2)	Write mechanism of thyroid hormones.	K1 (3)
3)	Describe the de novo biosynthesis pathway of Pyrimidine, highlighting the key enzymatic reactions involved and the regulation of this process.	K2 (4)
4)	Discuss the catabolism pathways of individual amino acids, highlighting the key enzymatic reactions involved.	K2 (6)
5)	Name polar amino acid alog with one properties?	K3 (6)
6)	Discuss the regulation of cholesterol metabolism, including the roles of HMG-CoA reductase and LDL receptors.	K3 (9)
7)	Describe the feedback mechanisms involved in the regulation of hormone secretion, focusing on negative feedback loops and their importance in maintaining hormonal balance.	K4 (8)
8)	Explain the general metabolism of lipoproteins, including their classification, functions, and secretion.	K4 (12)
OR		
	What is beta -oxidation of fatty acid. explain step by step process?	K4 (12)