

## **School of Medical and Allied Sciences**

Bachelor of Pharmacy
Semester End Examination - Jun 2024

**Duration : 180 Minutes Max Marks : 75** 

## Sem II - BP203T - BPHT2003 - Biochemistry

## General Instructions

Answer to the specific question asked

Draw neat, labelled diagrams wherever necessary

Approved data hand books are allowed subject to verification by the Invigilator

1)	Illustrate in brief functions of phospholipids.	K2(2)
2)	Illustrate briefly about albinism	K2(2)
3)	Define glycogen storage diseases.	K1(2)
4)	Illustarte briefly about amino acids	K2(2)
5)	Define exothermic and endothermic reaction	K1(2)
6)	Illustrate hyperbilirubinemia?	K2(2)
7)	Define the number of ATP fromed from one GDP	K1(2)
8)	Illustrate the term Transamination? Give example.	K2(2)
9)	Define Inhibitors and uncouplers.	K1(2)
10)	Define the following term a) Enthalpy b) Entropy	K1(2)
11)	Develop the mechanism of the electron transport chain (ETC) in cellular respiration.	K3(5)
	OR	
	Develop substrate-level phosphorylation and its significance in cellular energy metabolism.	K3(5)
12)	Develop the relation between energy-rich compounds, cyclic AMP, and their biological significance.	K3(5)
13)	Analyse the de novo synthesis of fatty acids, focusing on Palmitic acid.	K4(5)
14)	Develop the relationship between free energy, enthalpy, and entropy.	K3(5)
15)	Analyse the structure of DNA and RNA.	K4(5)
16)	Simplify the functions of DNA and RNA.	K4(5)

	Simplify the catabolism of heme	K4(5)
17)	Analyze the role of the microbiome in human physiology and disease.	K4(5)
18)	Elaborate the regulation of enzymes, including repression.	K6(10)
19)	Explain free energy and discuss its relationship with endergonic	K5(10)
	<b>OR</b> Explain enzyme inhibitors and provide examples of each type.	K5(10)