Sanjay Ghodawat University, Kolhapur Established as State Private University under Govt. of Maharashtra. Act No XL, 2017		2019-20 EXM/P/09/00
Year and Program **Second Year B. Pharmacy**	**School of Pharmaceutical Sciences**	**Department : Pharmacy**
Course Code : **BP203T**	**Course Title: Biochemistry**	**Semester – II**
Date: Wednesday **Day : 03.03.2021**	**Examination: Re-End Semester**	**Max Marks: 50** **Time: 2Hrs**

Instructions: 1) All questions are compulsory.

2) Figures to the right indicate full marks.

3) Draw diagrams wherever necessary.

			Marks	Bloom's Level	CO
Q.1		**Objective Type Questions (Any Seven)**	**14**		
	a)	Give the biological role of lipids.	02	L1	CO2
	b)	Classify biomolecules.	02	L4	CO2
	c)	Differentiate between endergonic and exergonic reactions.	02	L4	CO2
	d)	Give the characteristic features of von Gierke's Disease.	02	L1	CO2
	e)	Draw the chemical structures of major purines.	02	L3	CO3
	f)	Define hyperuricemia and gout.	02	L1	CO3
	g)	Enlist biological significance of cholesterol.	02	L1	CO2
	h)	Define Phenylketonuria and Albinism.	02	L1	CO2
	i)	What are the ideal characteristics of the Enzymes?	02	L1	CO1
	j)	Define enzyme inhibitors with examples.	02	L1	CO1
Q.2		**Long Answers (Answer 2 out of 3)**	**15**		
	a)	Describe the Glycolysis pathway and give its significance	7.5	L2	CO2
	b)	Explain De novo synthesis of fatty acids and its importance.	7.5	L2	CO2
	c)	Explain classification of enzymes in detail with examples. Define isoenzyme and coenzyme with example.	7.5	L2	CO1
Q3		**Short Answers (Answer 7 out of 9)**	**21**		
	a)	Discuss the HMP shunt pathway in brief.	03	L2	CO2
	b)	Write a note on ATP and give its biological significance.	03	L2	CO2
	c)	Describe any five types of glycogen storage diseases.	03	L2	CO2
	d)	Classify carbohydrates and give their functions.	03	L4	CO2

e)	Describe the double helix structure of DNA and give its functions	03	L2	CO3
f)	Explain disorders of lipid metabolism.	03	L2	CO2
g)	Draw systematic urea cycle.	03	L3	CO2
h)	Explain transamination and deamination of amino acids with examples.	03	L2	CO2
i)	Explain therapeutic and diagnostic applications of Enzymes.	03	L2	CO1