

DBW-003-1192001 ]

## DBW-003-1192001

Seat No. \_\_\_\_\_

[ Contd...

## M. Sc. (Micro) (Sem. II) (CBCS) Examination

July - 2022

MICRO-207: Biochemistry

Faculty Code: 003

Subject Code: 1192001

		Cubject Code : 1102001	
Tim	e: 2	$2\frac{1}{2}$ Hours] [Total Marks:	70
1	Answer the following (any Seven, each of 02 marks)		14
	(1)	Write down physiological importance of carbohydrates.	
	(2)	Enlist properties of fatty acids.	
	(3)	What is pronas?	
	(4)	What is multimeric protein?	
	(5)	Write properties of amino acids.	
	(6)	For the enzyme which follows Michaelis Menton kinetic, what happens when Vo= 1/2 Vmax ?	
	(7)	Define Activation energy.	
	(8)	Enlist enzymes involved in glycolysis.	
	(9)	How is glycolysis is different from gluconeogenesis?	
	(10)	Enlist the enzymes involved in citric acid cycle.	
2	Ans	wer the following (Any Two, each of 07 marks)	14
	(a)	Write a note on disaccarides and its type.	
	(b)	Write an essay on polysaccharides.	
	(c)	Discuss in detail, compound lipid.	
3	Answer the following (Each of 07 marks)		14
	(a)	Write a note on primary structure of protein.	
	(b)	Write a note on Ramachandran plots.	
		$\mathbf{OR}$	
	Ans	wer the following (each of 07 marks)	14
	(a)	Explain secondary structure of protein.	
	(b)	Write note on fibrous protein.	

1

- 4 Answer the following (each of 07 marks)
  - (a) Write a note on nomenclature and classification of enzyme.
  - (b) Explain in detail principle and mechanisms of enzyme catalysis.
- 5 Answer the following (any Two, each of 07 marks) 14
  - (a) Explain in the detail, Glycolysis.
  - (b) Discuss in detail citric acid cycle.
  - (c) Explain in detail ED pathways.
  - (d) Describe in detail, pentose phosphate pathways.

14