

SE Sem-III (Bio. Tech)

Applied Bjochemistry

JIL Sewy

BT(Rev) (26) QP Code: NP-18634

(3 hours)

[Total Marks: 80

N.B	$\cdot$ (1)	Questions no. 1 is compulsory.	
	(2)	Answer any three questions of remaining five questions.	
	(3)	Explain with suitable diagram wherever necessary.	
	(2)	Define pH. Differentiate between an acid and a base.	5
1.		Explain the significance of double reciprocal plot.	5
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1	8000 1100	Explain double helical structure of DNA.	
	(d)	Explain what are energy rich compounds.	4
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2.		Explain the steps involved in the glycolysis cycle with the bioenergetics.	.14
	(b)	Explain the classification of carbohydrates.	6
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3.	(a)	Explain fatty acid oxidation.	10
i i		Explain transamination with its mechanism.	10
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4	(a)	Explain different properties of triacylglycerols.	. 12
		What are amino acids? Explain their structural features.	8
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ú,	(-)	Describe Henderson Hasselbalch equation.	6
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4.27	(b)	Discuss the classification of enzymes.	
	(c)	Explain in detail the primary, secondary and tertiary structure of proteins.	
Seattle Co.			
5.	(a)	What are vitamins? Explain the detailed classification of vitamins.	9
Burney.	(b)	What are the stages involved in $\beta$ - oxidation of fatty acids.	. 1
8	. ,		