i.	SEAT No	No	o. of Printed Pages: 02
	B. Sc. (ZC	SARDAR PATEL UNIVERSITY DOLOGY) – Sixth Semester Examination Saturday, 17 th July,2021 10:00 a.m. to 12:00 p.m. 5CZOO23: Metabolism and Nutrition	
Q-1	I. MULTIPLE CHOICE Q	UESTIONS:	Total Marks: (70) (10)
1.	One molecule of Glucose	e can produce about ATP	(10)
	(à) 18 (b) 28	(c) 38 (d) 32	
2.	Formation of glucose from	m non-carbohydrate sources is called-	
			l) Glycolysis
3.		robic conditions) the pyruvic acid is reduced	
		Transformer () is a manufactor of the	aloacetic acid
4.	10 m	muscle breaks down stored glycogen and pro-	
		Anomalianti () The test	n technically
5.		aerobic respiration is produced by the	
	(a) electron transport chain		R.P. Seience
	(c) Krebs' cycle	(d) ovidative phase hands i	LIBRARY
6.	Cytochromes are found in		LIONAN
	(a) matrix of mitochondria		L. V. Nadas
	(c) lysosomes	5 Contraction of the second states	
7.	The chief protein of cow's	(d) outer wall of mitochondria	
			1
8.	(a) Albumin (b) Vitellir HDL is synthesized and see	(d) Caselli	
	(a) pancreas (b) liver		Districted for the tro
9.		(c) kidney (d) muscle	men e nicion i nem
	(a) 4 (b) 9	produced of parts of a second s	_ calories
10.		(c) 12 (d) 15 termed as antioxidant vitamins.	
	2 x 1 x x x	tamins B (c) Vitamins C (d) Vita	mins K

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(P.T.0))

Q-2.	TRUE FALSE	(8)
1.	Glucose + Fructose = Lactose	(-)
2.	Liver cells and adipose cells can synthesize lipids from amino acids	
3.	High-Density Lipoproteins are good cholesterol	k ₅
4.	Guanine is pyrimidine.	
	Fill in the Blanks	
5.	Lowering of core body temperature below 35°C is called	Despende
6.	Molecules that have both polar and nonpolar parts are said to be	
7.	Keratin is an example of	
8.	How much Calorie realized while dietary mixture uses 1 liter Oxygen?	
Q-3.	ANSWER IN SHORT. (ANY TEN)	(20)
1.	What is metabolism? Distinguish between anabolism and catabolism.	
2.	Give the name of Monosaccharides.	
3.	Write about Gluconeogenesis.	Sei
4.	Where are triglycerides stored in the body?	Seience
5.	What is Chylomicrons?	RARY
6.	Write down the composition of VLDLs.	9
7.	Enlist the four possible fates of glucose 6-phosphate.	Vagal
8.	How are Essential and Non-Essential amino acids different?	
9.	Define the terms: Fasting and Starvation.	
10.	What is BMR? How it is determine?	
11.	What is Nutrient?	
12.	Give the names of fat-soluble vitamins.	
Q-4.	ANSWER IN DETAILED. (ANY FOUR)	(32)
1.	Explain Krebs Cycle.	
2.	Describe Electron transport chain.	
3.	Explain catabolism of Lipids.	
4.	Describe the transport of lipids by lipoproteins.	
5.	Explain Protein anabolism.	
6.	Discuss the biosynthesis of purine nucleotide.	
7	Write an explanatory note on body temperature homeostasis.	
8.	Explain the role of Vitamin and Mineral Supplements.	

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