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(41 & A-12)

SEAT NO._

No. of Printed Pages ;2.

SARDAR PATEL UNIVERSITY B.Sc. –VI Semester Examination 2018 Saturday, 31st March 10.00 AM. to 1.00 PM. Subject Code: US06CBCH03 (Metabolism II).

Total Marks: 70

 Choose the correct option and write it in the answer sheet. The P:O ratio for oxidation of NADH is	[10]
 a) 01 b) 02 c) 03 d) 04. The Tobacco smoke a, well known carcinogenic sources of a) ATP b) ROS c) GTP d) none of these. ATP Synthase activity is associated with the mitochondrial enzy a) V b) II c) IV d) III. 	
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a) V b) II c) IV and) III. an add low sould be reached formed as	1104/ (=
a) V b) II c) IV and III. an against soil to appet in furned as	me complex
4. The substance that facilitates protein degradation is	
a) Phylloquinone b) Metaquinone c) Ubiquinone d) Ubiquitin	
5. Nitrogen is a key component of	
a) Fatty acid b) Amino acid c) Ascorbic acid d) Pyruvi	
6. The amino acid which acts as the storehouse of nitrogen (NH3)	in the body.
a) Arginine b) Lysine c) Alanine d) Glutamine	
7. In albinism, the following substance is either absent or defective	a.
a) Melanin b) Biopterine c) Noradrenaline d) Dopamine	TECH TO CE
8. The brain energy metabolism is based wholly on	
a) Glucose 6 Phosphate b) Glucose c) FFA d)Amino acid	d allest the
9. FADH2 and NADH finally oxidized in	
a) ETC b) TCA c) HMP d) None of these	
10. Xanthine oxidase oxidized hypoxanthine to Xanthine and Xant	hine to
a) Urea b) Acetate c) Xylose d) Uric acid.	
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Q2	Answer the followings in short (any ten)	[20
1.	Define Free energy and Free radicals.	Į A V
2.	Draw the structure of ATP.	
3.	Sunlight is the ultimate source of energy in all forms of biological system	ag_Tratific
4.	What is chemical coupling hypothesis?	is-Justily.
5.	Draw the structures of AMP, GMP, and IMP.	
6.	Define uricotelic, Amnotelic and ureotelic with example.	
7.	What are sources of Amino acid pool?	
8.	Urea cycle is also known as Krebs-Henseleit cycle why?	
9.	What are components of nucleotides?	,
10.	What are of various Glucose transporters?	
11.	In a fed state, ketone bodies are almost negligible why?	
12.	What are biological antioxidants?	
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Q-3	ANYLIA 1 ()	
Q-3	A) Write detail essay on the structural and functional organisation of the E and add a notes on its site inhibitors.	TC [07]
	the control of the co	
	B) Write notes Paul Boyer's hypothesis.	[03]
	OR. The state of water the state of the stat	
Q-3	A) Discuss harmful effects of free radicles on Biomolecules.	[06]
	B) Write notes P:O ratio.	[04]
	a target of the wealth of the end of the endingering of	[4,1]
Q-4	Write an essay on the hiosynthesis of uron how it is an analysis	
	Write an essay on the biosynthesis of urea, how it is regulated? and write about its energetics.	[10]
	OR	
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Q-4	A) Write detail notes on Transamination.	[05]
	B) Explain about Maple syrup disease.	[05]
Q-5	A) Write notes on Purine biosynthesis.	[05]
	B) Discuss in detail about Gout.	[05]
	OR Company of the Com	
Q-5 V	Vrite notes on De novo synthesis of pyrimidine and add a note on its regulation	. [10]
Q-6	Discuss metabolism during diabetes mellitus and discuss role of liver and brain	r [m]
•	OR	[10]
Q-6	A) Draw an overview of integration of metabolic pathways of	
	chergy metabolism.	[04]
ł	Discuss role of adipose tissue and skeletal muscle in metabolism of carbohydrates.	ניין
		[06]