Typiatech /
Paper / Subject Code: 86401 / Biochemistry

		3 Hours Total Marks: 10	0
	1. 2. 3. 4.	All questions carry equal marks. Draw neat labeled diagrams wherever necessary. Use of log tables and non-programmable calculator is allowed.	
Q1.	(a)	Do as directed: (Any Six)	06
	1.	What are fibrous proteins?	
	2.	State true or false: Ribonuclease polypeptide exists predominantly in β conformation.	
	3.	Name the technique commonly employed for determining 3 D structure of protein.	
	4.	Fill in the blank: Larger polypeptides often fold into two or more stable globular units called	
	5.	Define protomer.	
	6.	State true or false: Hydrophilic interactions are involved in tertiary protein structure.	
	7.	Name any one analytical procedure based on antigen - antibody interaction.	
	8.	Fill in the blank: Tobacco mosaic virus protein has symmetry.	
	9.	State the role of Hsp 7	
	(b)	Answer the following (Any Two)	• •
	1.	Give salient features of tertiary structure of myoglal.	14
	2.	Elaborate on chemical energy modulated mechanism of muscle contraction	
	3.	Explain plating out and dialysis.	
Q2.	(a)	Name the <u>Pathway</u> to which the following reactions are associated:	06
	1.	Starch n to Starch n+1	
	2.	Geranyl pyrophosphate to farnesyl pyrophosphate	
	3.	Glycogen _n to glycogen _{n+1}	
	4.	Sucrose-6-phosphate to sucrose	
	5.	Mevalonate to 5-phosphomevalonate	

Paper / Subject Code: 86401 / Blochemistry

		is' to glycogen phosphorylase is	
	6.	Glycogen phosphorylase 'b' to glycogen phosphorylase 'a'	v.
	7.	The second of th	eş P
	8.	UDP -Glucose to Sucrose o Pro-	1.
	9.	A const. Co. A. to. Acetoacetyl Con	
	b)	Give an account on the following: (Any Two)	1
	1.	Biosynthesis of sucrose in plants	17
	2.~	Synthesis of Mevalonate in cholesterol biosynthesis	7.
	3.	Biochemical reactions of glycogenesis	
Q3.	(a)	Do as Instructed: (Any Six)	06
	1.	Name one hypothalamic hormone,	
	2.	State true or false: Growth hormone is antagonistic to insulin and causes hyperglycemia.	
	3.	Which hormone is associated with diabetes insipidus?	
	4.	Fill in the blank:	
		TSH levels. is an enlargement of thyroid gland associated with elevated	
	5.	Give one function of androgen.	
	6.	Mention the name of the hormone synthesized and secreted by corpus	
	7.	Give the function of β-hCG	
.57	8.	Name the hormone produced by Zona fasciculata of adrenal gland. What is the effect of al.	
	9.	or glucagon on blood glucose level?	
	(b)	Answer the following: (Any Trans	
	Ĭ.	of the same. Group II hormone? Discuss the mechanism of action	14
	2.	Explain the blochemical 6.	
	3.	Explain the biochemical functions of catecholamines. Elaborate on the effect of insulin on carbohydrates metabolism.	
		on carbohydrates metabolism.	

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Q4.	(a)	Name the following: (Any Six)	
	1.	The vitamin containing isoalloxazine ring	1
	2.	The egg injury factor present in raw egg white.	1
	3.	The vitamin that is synthesized only by microorganisms	11.
	4.	Iron is transported in the plasma in a bound form to a protein	
	5.	Sulfur containing amino acid.	6
	6.	Element that prevents the development of dental carres.	-
	7.	Principal intracellular cation.	į
	8.	Disease characterized by Dermatitis, Diarrhea, dementia	
	9.	A in Coenzyme A stands for	
	(b)	Answer the following questions (Any Two)	
	1.	Explain Wald's Visual cycle	
	2.	Explain the various functions of Calcium	
	3.	Give the clinical differences between Kwashiorkor and Marasmus	
Q5.		Write short notes on: (Any Four))
	a)	Protein denaturation	
	b)	Regulation of sucrose phosphate synthase by phosphorylation	
	c) (Functions of Oxytocin	
.5	d)	Abnormalities of growth hormone.	
112	e)	Symptoms of Vitamin D deficiency	
	f)	Disease states associated with Phosphorus levels	
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