					ach)	
	(b) {	B-carotene		(C)	Answer in one senience. (1 Marks each)	
	(c) y	y-carntene			(i) Define saponification number.	
	(d) A	All			(ii) Define RQ.	
(ii)		a nino acid is present in Fol	دنا		(iii) Define Zwitterion.	4
	acid?				(iv) Define asymmetric carbon.	
	(a) T	Tryptophan				1
	(b)	Tyrosine		2. (a)	What are Epimers? Explain with example	ples.
	(c) (Glutamine		, ,		
	(d) (Glutamic acid		(b)	Describe the structure and function of	starch 4
(iii)) DNA is denatured by				Boserne III st. com	ith
	(a) I	Heat	*	(c)	Discuss the phenyl hydrazine reaction	on Willi 4
	(b) A	Acid			suitable example.	
	(c) /	∖lkali			OR	-10
	(d) A	All of the above		(p)	What is mutarotation? Explain with	example.
	Arachi	Arachidonic acid contains the number of				d fructose.
	double bonds			(q)	Draw ring structures of glucose ar	4
	(a) 2	2			1	unction of
	(b) 3	}		(r)	Describe the structure and f	4
	(c) 4				hyaluronic acid.	
	(d) 5	i	2			
						O.T.q

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	(q) Draw the structures of sulfur containing amino acids. 4
	(r) What do you understand by denaturation and renaturation of proteins?
5.	Discuss importance of carbohydrates and protein in Nutrition.
	OR
	Describe importance of I, Fe and Ca in nutrition.
6.	Describe the structure and functions of different types of RNA. 12
	OR
	Describe in detail structure and functions of hemoglobin.
7.	(a) Describe the structure and functions of thyroxine.
	(b) Describe structure, sources and deficiency effects of Vitamin-B ₁ . 4

6.

(c) Give the structures of meduliary hormones of adrenal.

OR

- (p) Define and classify hormones with examples.
- (q) Describe structure and functions of Vitamin
 D₂ and D₃.
- (r) Describe the structure and deficiency effects of ascorbic acid.4