

	1.	The	structure	is the amino acid	sequence.		<u>b</u>	
			tiary					
		b. Pri						
			ha helix					
			a sheet					
	2.		structure is	how proteins are	related to one	another.	<u>a</u>	
			Quaternary					
			Protein					
			Secondary					
			Antiparallel				1	
	3.	u.	honds are betwe	en strands while	bond	s are within the strand.	d	
	٥.			Irogen				
			Hydrogen hyd					
			Disulfide per					
			Hydrogen per				1	
	4.		bonds are catego		dary structure	of proteins.	d	
	4.		Peptide	integral of the secon	adi y oti accaii c			
			Nonpolar					
			Salt bridge					
			Hydrogen					
	_			is defined as the o	overall protein s	structure or the spatial	C	
	5.		gement of secondary		yeran process.			
			Quaternary	Structures.				
			Beta sheet					
			Tertiary					
			Peptide backbone					
	_		amino acid sidechai	n has a nositive o	ne charge?		C	
	ъ.		Valine	ii iias a positive oi	ic charge.		,	
			Glutamic acid					
			Histidine					
		C.						
	7	d.	ird residue in the fol	lowing pentide se	auence is	and has	d	
	7.	me u	peptide bonds.					
			Aspartic acid fiv		ASP TYLLIO			
		a. b						
			Aspartic acid fo					
		c. d						
	0				ar residues. La	bel the amino terminis,	carboxyl	
	8.		Draw a tetrapeptide containing only nonpolar residues. Label the amino terminis, carboxyl terminus, and the peptide bonds.					
					6	Gly-A	Ha-Pro-Phe	
				CHO	4	U		
			0 11 011 2	citz chz o	4 cHa			
		4	H 0 17 C1730	-1-1-1	-N- C-C	00-		
		H3N	- C-C-N-C-C			7		
amino	/	7	H O H CH30	1		carboxyl terminis		
tern		L	PE	ptide bonds		O		

	REVII	EW MULTIPLE CHOICE						
1.	Wha	at is the name of the following molecule?						
		CH ₃ CH ₂ (CO)NHCH ₃						
	a.	N-propyl methanoic acid						
	b.	Methyl propyl amide						
	c.	N-methyl propanamide						
	d.	Methyl acetamide						
2.		and will react to form N,N-dimethyl butanamide.	Ь					
	a.	CH ₃ -NH-CH ₂ CH ₃ and CH ₃ CH ₂ COOH						
	b.	CH ₃ -NH-CH ₃ and CH ₃ CH ₂ COOH						
	c.	NH ₃ and CH ₃ C(CH ₃) ₂ CH ₂ COOH						
	d.	CH ₃ NCH ₃ and CH ₃ CH ₂ COOH						
			1					
3.	The	ammonium cation has what type of charge?	<u>d</u>					
	a.	+2						
	b.	-2						
	c.	Neutral						
	d.	+1						
4.	Wh	at the IUPAC name for the following molecule?						
		CH ₃						
	H ₃ C	N-methyl-2-pentanamine						
	a.	N-methyl-hexanamine						
	b.	Methyl 2-pentanamine						
	c.	N-methyl-2-pentanamine						
	d.	Methyl pentyl amine						
5.	A d	iacid and a diamine react to form a	<u>b</u>					
	a.	Amino acid						
	b.	Polyamide						
	c.	Heterocyclic amine						
	d.	Quaternary ammonium salt						
6.	Tw	o examples of polyamides are	<u>a</u>					
	a.	Kevlar and nylon						
	b.	Kevlar and pumiliotoxins						
	c.							

d. Nylon and decongestants

1.	Label each as either being a globular protein or fibrous protein description.					
	1. <u>globular</u> consists of various secondary structures					
	2. hbrous long fibers or strands					
	3. Fibrous consists of a single secondary structure					
	4. <u>globular</u> functional proteins					
	5. <u>alobular</u> compact					
	6. fibrous few residues that repeat					
	7. <u>slobular</u> most or all 20 residues					
	8. hbrous structural proteins					
	9. fibrous insoluble in water					
	10. globular can be water soluble					
11.	Answer the Following Questions. 11. What are two examples of fibrous proteins? Describe them. 1) Keratins - 2 or 3 strands of a helix; disulfide bonds hold them together; hav 2) collegen - 3 braided strands of a left-handed helix-held together by hydrogen bonds - connective tissue 12. Describe the process of getting your hair chemically straightened or curled. 1) break the current disulfides 2) reoxidize the now free cysteines to new disulfides * charges how one fiber to the next is oriented 13. Name the globular protein responsible for oxygen transport protein in muscles. Myoglobin					
	 14. What is the name of the protein coat that surrounds a virus (DNA or RNA core)? What is this made of? capsid-made of many identical protein subunits 15. <u>denaturation</u> is the disruption of some part of the secondary, tertiary, or quaternary structure. 					
III.	Since ions and polar compounds cannot pass through the lipid bilayer, trasnsmembrane channels are required for transport across cell membranes. Match each type of transport with its description.					
	16. Uses protein channels to increase the rate of diffusion a. Diffusion (passive transport) b. Facilitated transport					
	17. Moves particles from a higher to lower concentration c. Active transport					
	18. Moves ions against a concentration gradient					