## **Proteins**

## Read Chapter 2.3

1.	are the building blocks (monomers) that make up proteins.		
2.	Amino acids that are incorporated into proteins are called		
3.	There are amino acids, of which are 'essential'.		
4.	Essential amino acids cannot be made in the body, we have to get them from our		
5.	The COOH part of an amino acid is called the group.		
6.	The NH₃ part of an amino acid is called the group.		
7.	The gr	oup of every amino acid is different and contributes to the functional	
	characteristics of the protein.		
8.	The type of covalent bond that forms between amino acids is called a bond.		
9.	9. Fill in the following chart; add an example of each type of protein.		
Туре	of Protein	Example	
Enzyme			
Protection			
Membrane proteins			
Cell recognition			
Contractile			
Transport			
Structural			
Regulatory			
10. Besides meat, fish, and dairy, name 4 other sources of protein:			
11. Two types of folding structures you would see in the secondary structure of a protein include			
	and	d	
12.	. A quaternary protein structure contains at least proteins.		
13.	3. During protein folding, a hydrophobic amino acid would be attracted to a		
	amino acid and a hydr	ophilic amino acid would be attracted to a amino	
	acid		

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	Protein folding is also affected by interactions between amino acid functional groups that cause		
	the formation of bonds and bonds.		
15.	Breaking the normal interactions between functional groups of amino acids in a protein is called		
	The 2 main factors that cause this breakdown are and		
	<del>.</del>		
16.	proteins catalyze chemical reactions in cells.		
17.	7. Some of the non-proteinogenic functions of amino acids include the formation of		
	neurotransmitters. What neurotransmitters are produced from the following amino acids?		
	a. Tyrosine		
	b. Tryptophan		
18.	Three branched chain amino acids are important for building muscle, they include		
	and		
19.	grams/kg is the average amount of protein that people should consume every day.		
20. Name 4 reasons why we might sometimes need to consume more protein.			
	a		
	b		
	c		
	d		
21. Name 2 symptoms you might feel if you were not eating enough protein.			
	a		
	· ·		
	b		