## 1. Read the article and choose from the list A-H the best phrase to fill each of the spaces 1-8.

## **PROTEINS**

Adapted from <a href="http://en.wikipedia.org/wiki/Protein">http://en.wikipedia.org/wiki/Protein</a>

Most proteins consist of linear polymers built 1 All proteinogenic amino acids				
possess common structural features, including an $\alpha$ -carbon to which an amino group, a				
carboxyl group, and 2 Only proline differs from this basic structure as it contains				
an unusual ring to the N-end amine group, which forces the CO-NH amide moiety into a				
fixed conformation. The side chains of the standard amino acids have 3; it is the				
combined effect of all of the amino acid side chains in a protein that ultimately determines				
<b>4.</b> and its chemical reactivity.				
The amino acids in a polypeptide chain are linked 5 Once linked in the protein				
chain, an individual amino acid is called a residue, and the linked series of carbon, nitrogen,				
and oxygen atoms are known as $6.$				
that contribute some double-bond character and inhibit rotation around its axis, so that the				
alpha carbons are roughly coplanar. The other two dihedral angles in the peptide bond				
determine 7				
terminus or carboxyl terminus, whereas the end with a free amino group is known as				
<b>8.</b>				

- A. the main chain or protein backbone
- B. a great variety of chemical structures and properties
- C. the N-terminus or amino terminus
- D. a variable side chain are bonded
- E. by peptide bonds
- F. from series of up to 20 different L- $\alpha$ -amino acids
- G. the local shape assumed by the protein backbone
- H. its three-dimensional structure

2.	Now read the sentences and complete the spaces with appropriate		
	words:		
a.	Most proteins consist of polymers built from of up to 20 diff		
	L-α-amino acids.		
b.	The amino acids in a	chain are	by peptide bonds.
c.	The peptide bond has two	o forms that contribute some double-bond	
	character and	rotation around its	
d.	The end of the protein with a free carboxyl group is known as the carboxyl		
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