

1. Proteins are composed on how man "standard" amino acids? **20**
2. Peptide bonds are formed through what type of chemical reactions? **condensation**
3. The functional group (R group) attached to the alpha carbon dictates the chemistry of an amino acid when it is part of a polypeptide. Why are the carbonyl carbon and amide nitrogen not reactive? **They are involved in a peptide bond and no longer reactive**
4. Name all amino acids that have alcohol groups as part of the sidechain. **Serine, tyrosine, threonine**
5. Match the amino acid with it's one letter code.

Lysine – K	Glutamine – Q	Proline – P	Aspartic Acid – D	Alanine – A
Glycine – G	Asparagine – R	Leucine – L	Glutamic Acid – E	Tryptophan - W
6. Which amino acid enantiomer dominates protein structure? **L**
7. What important biomolecule is formed when glutamic acid is decarboxylated? **GABA (γ -aminobutyric acid)**