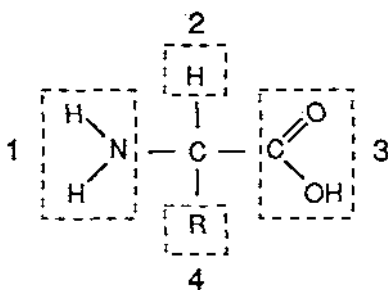
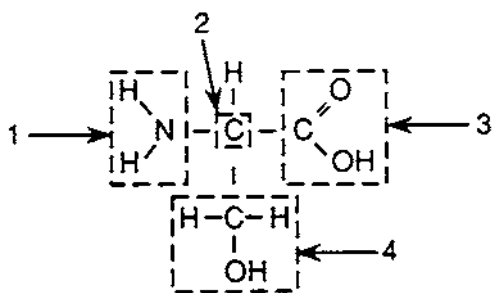


1. Which parts of the molecule in the diagram below are involved in the formation of peptide bonds?

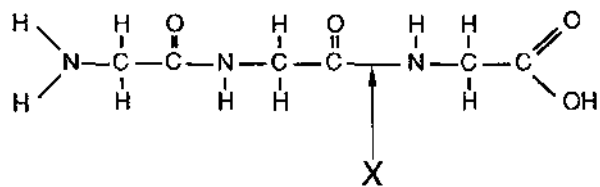


- (1) 1 and 2                      (3) 2 and 4  
 (2) 2 and 3                      (4) **1 and 3**
2. the diagram below, which number indicates a carboxyl group?



- (1) 1                                  (3) **3**  
 (2) 2                                  (4) 4
3. A protist measures 500 micrometers in diameter. What is the diameter of this organism in millimeters?
- (1) **0.5**                              (3) 50  
 (2) 5.0                                (4) 500
4. Every living cell contains molecules of
- (1) cellulose                      (3) **protein**  
 (2) chlorophyll                  (4) hemoglobin
5. Enzymes are produced as a direct result of which process?
- (1) **protein synthesis**          (3) respiration  
 (2) photosynthesis              (4) enzymatic hydrolysis

6. All enzymes are examples of organic molecules known as
- (1) **proteins**                      (3) lipids  
 (2) carbohydrates                (4) nucleic acids
7. Saturated molecules of this nutrient, which may predispose humans to cardiovascular disease, are solid at room temperature.
- (1) **Lipids**                        (4) Proteins  
 (2) Carbohydrates                (5) Vitamins  
 (3) Minerals
8. Proteins ingested by animals are immediate sources of
- (1) glucose                        (3) fatty acids  
 (2) cellulose                        (4) **amino acids**
9. If there were no nitrogen compounds in the soil, the most immediate effect on plants growing in that soil would be difficulty in synthesizing
- (1) **amino acids and proteins**  
 (2) glucose and polysaccharides  
 (3) monosaccharides and cellulose  
 (4) fatty acids and lipids
10. An element found in all proteins but not found in carbohydrates and lipids is
- (1) carbon                        (3) oxygen  
 (2) hydrogen                      (4) **nitrogen**
11. The structural formula of a molecule is shown below.



- The part of the molecule indicated by X is known as a
- (1) carboxyl group                (3) **peptide bond**  
 (2) hydrogen bond                (4) variable side group