Bio EOC practice Quiz 2

1-10-17

1. **Students conducted an investigation using Biuret reagent to determine the presence of proteins in different foods. The results are shown in the table below.**

|  |  |
| --- | --- |
| **Substance** | **Color after adding Biuret reagent** |
| **Honey** | **Blue** |
| **Cottage cheese** | **Purple/lavender** |
| **Potato** | **Dark blue** |
| **Water** | **Light blue** |
| **Chicken broth** | **Dark purple** |
| **Yogurt, plain** | **Light purple** |

**According to the data, which foods tested by the students contained proteins?**

1. **Honey and potato**
2. **Potato and chicken broth**
3. **Cottage cheese and water**
4. **Cottage cheese and yogurt**
5. **Which best describes how enzymes function in the body?**
   1. **Enzymes are converted into products by the reactions they catalyze**
   2. **Enzymes lower the activation energy of reactions**
   3. **One enzyme can catalyze many different reactions**
   4. **An enzyme is used once and then destroyed by the cell**
6. **Which molecules store and transmit genetic information?**
   1. **Lipids c. nucleic acids**
   2. **Proteins d. carbohydrates**
7. **A student notices that the lettuce in a salad wilts soon after salt is added. Wilting most likely occurs because the lettuce cells**
   1. **Swell when exposed to salt**
   2. **Absorb the extra salt**
   3. **Release water in the presence of salt**
   4. **Lose oxygen when in contact with salt**
8. **In active transport, carrier proteins**
   1. **Move substance across the cell membrane without the use of ATP**
   2. **Move from low concentration to high concentration by diffusion**
   3. **Move small molecules through the cell membrane by osmosis**
   4. **Move substance from a low concentration to high concentration through the use of energy**
9. **The allele for having a bent pinky finger is dominant to the allele for having a straight pinky finger. If two people who are both heterozygous for the trait of a bent pinky finger have a child, what is the percent probability that the child will have straight pinky fingers?**
   1. **0 % c. 75%**
   2. **25% d. 100%**
10. **Which best describes the role of enzymes in a chemical reaction?**
    1. **Absorb excess energy**
    2. **Release the unused energy**
    3. **Increase the reaction rate**
    4. **Regulate product reactivity**