**EOC prac 5- macromolecules**

1. **The main components of cell membranes are** 
   1. **Lipids**
   2. **Proteins**
   3. **Nucleic acids**
   4. **Carbohydrates**
2. **In humans, which molecule makes up the majority of muscle tissue?**
   1. **Protein**
   2. **Simple sugar**
   3. **Lipid**
   4. **Nucleic acid**
3. **Antibodies are composed primarily of amino acids. In which class of biomolecules would antibodies belong?**
   1. **Nucleic acids**
   2. **Carbohydrates**
   3. **Proteins**
   4. **Lipids**
4. **Which molecules store and transmit genetic information?**
   1. **Lipids c. nucleic acids**
   2. **Proteins d. carbohydrates**
5. **Which biomolecule contains nitrogenous bases?**
   1. **Lipid**
   2. **Protein**
   3. **Nucleic acid**
   4. **Carbohydrate**
6. **A student tests an unknown colorless solution for the presence of sugars, starches, lipids, and proteins. The results are shown in the table below.**

**Unknown Solution Results**

|  |  |
| --- | --- |
| **Testing Indicator** | **Observation colorless to:** |
| **Iodine** | **Brownish- orange** |
| **Benedict’s solution** | **Orange** |
| **Biuret solution** | **Purple** |
| **Brown paper bag** | **No mark, completely dry** |

**Based on the data collected, which molecules are present in the unknown solution.**

1. **Starches and lipids**
2. **Proteins and starches**
3. **Sugars and proteins**
4. **Lipids and proteins**
5. **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**