

B I O C H E M I S T R Y L A B Q U I Z

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NAME _____

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Quiz #3

- Carbohydrates structures demonstrating a few monosaccharide units are classified as _____.
 - polysaccharides
 - oligosaccharides
 - ketoses
 - reducing sugars
 - aldoses
- Most tests for 'reducing sugars' will assess the carbohydrate's ability to react with the oxidizing agent _____.
 - H₂SO₄
 - Cu²⁺
 - HNO₃
 - I₂
 - Hg²⁺
- Whenever a concentrated acid is used as a component of a test reagent, the function of the acid is to cause the _____ of the carbohydrate being tested.
 - dehydration
 - condensation
 - reduction
 - oxidation
 - polymerization
- If a test sugar solution gave a red precipitate with Barfoed's test, a gray product with Bial's test and a cherry-red product with Seliwanoff's test, the mystery sugar is probably a(n) _____. USE THE CHART AT THE BOTTOM OF THE PAGE
 - ketohehexose
 - polysaccharide
 - ketopentose
 - aldohexose
 - aldopentose
- Which type of carbohydrate gives a positive test with the I₂/KI test?
 - polysaccharide
 - ketotetrose
 - reducing sugar
 - monosaccharide
 - aldohexose

reducing mono

