

Practical general Biochemistry BCH 202

Name:

ID:

Q1. Answer the following statements with True (T) or False (F)

1- Buffer reaches to maximum capacity when $\text{pH} = \text{pKa}$	
2- Buffer neutralizes the excess hydrogen ion by converting it to salt and water	
3- The distilled water has natural pH, so it can resist the change in pH	
4- The products of sucrose hydrolysis can be detected by Benedict's test	
5- The Conc. Sulfuric acid dehydrates hexose to form furfural	
6- Glucose gives positive results with Seliwanoff's test faster than fructose	
7- The aldehyde group in reducing sugar is oxidized to carboxyl group	
8- In Molish test, the 5-OH-methyl furfural reacts with orcinol to produce purple ring	
9- All reducing sugars give positive results with Barfeod's test	
10- Liebermann-Burchard detects the glycerol group in fats or oils	
11- More iodine consumed means that fat contains more saturated fatty acids	
12- The fatty acids give positive result with Acrolein test	
13- Starch contains free hemiacetal; therefore, it is reducing sugar	
14- Single-strand DNA absorbs UV light less than double-strand DNA	
15- When the ratio of A_{260}/A_{280} is 0.6, the sample contains more protein	