

SAMPLE QUESTIONS

CARBOXYLIC ACIDS

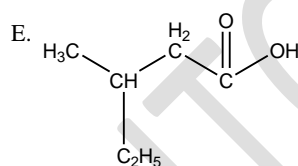
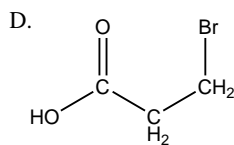
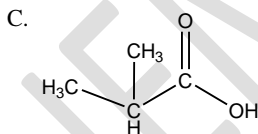
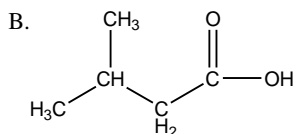
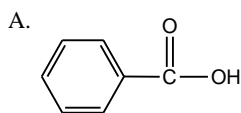
1. Encircle the letter T, if the statement is true, and the letter F, if it is false.

1. T F The reaction between a carboxylic acid and an alcohol forms an ester.
2. T F When aldehydes are oxidized carboxylic acids are obtained.
3. T F The simplest carboxylic acid is formic acid.
4. T F Tollens' test is used to detect carboxylic acids.
5. T F Fats are esters of fatty acids and glycerin.

2. Fill the blanks.

1. Organic acids with hydroxyl group are called
2. Formic acid contains both andgroup.
3. 4-6% of acetic acid is known as
4. When primary alcohols are oxidized in two steps obtained.

3. Write down the IUPAC name of the following structures.

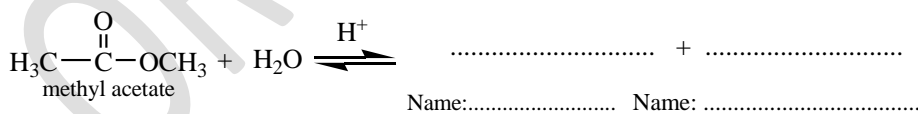


4. Write structural formulas for each of the following.

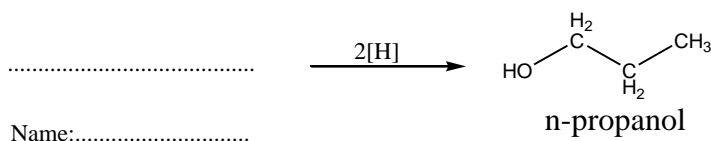
- A. 2-methyl butanoic acid B. benzoic acid C. 2, 3-dimethyl hexanoic acid D. Formic acid

5. Complete the following reactions and name the substances indicated.

A.



B.



6. According to the reaction below 14.8 g of a carboxylic acid reacts with excess sodium and produce 2.24 liters of hydrogen at STP. What is the formula of the acid?(C:12, O:16, H:1)



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