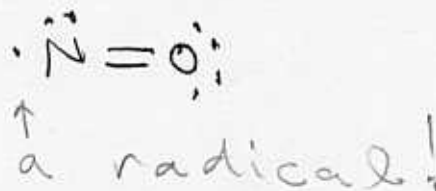
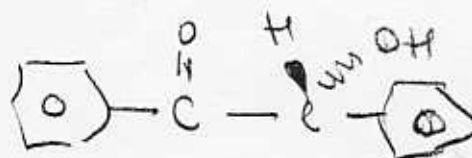
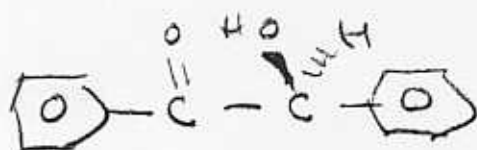


1. Show a reasonable Lewis dot structure for nitrogen monoxide, NO! (2 pts)



2. Consider our starting material, benzoin. Actually, there exists more than one stereoisomer of this compound. Show reasonable representations of the stereoisomers of benzoin! (4 pts)



3. Circle all acids, which can form esters! (4 pts)

HF

HClO<sub>4</sub>

HNO<sub>3</sub>

HNO<sub>2</sub>

4. Let's assume that you use 3.5 milliliters of 65% nitric acid, density 1.4. How many grams of HNO<sub>3</sub> do they contain? (3 pts)

$$3.5 \times 1.4 \times 0.65 = 3.19 \text{ HNO}_3$$

5. Name the product you will prepare today! (2 pts)

meso-1,2-diphenylethane diol