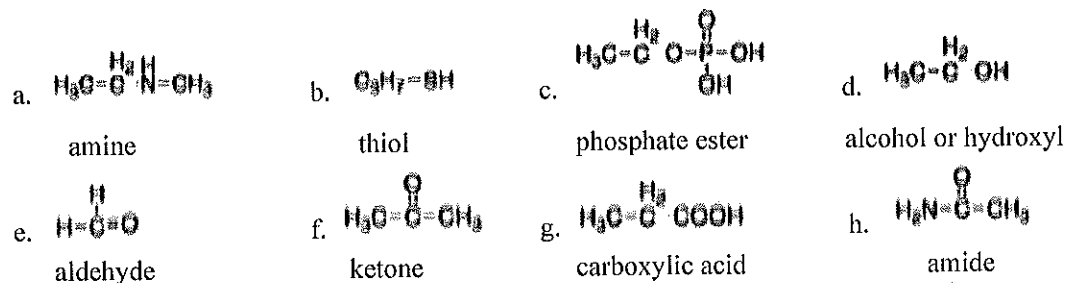


## Practice Problems

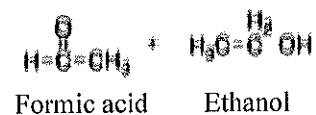
## Functional Groups

## Key

1. Name the following functional groups:



2. Artificial "RUM" flavor is:  $\text{H}_3\text{C}-\overset{\text{H}_2}{\text{C}}-\text{O}-\overset{\text{O}}{\text{C}}-\text{H}$ . It is an: ESTER  
 Draw the two compounds used in its manufacture:



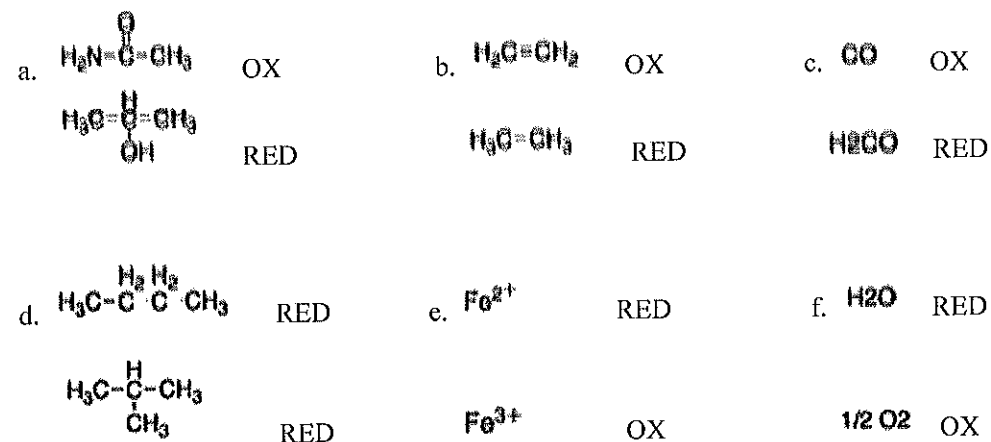
3. Complete the equation with curved arrows and draw the products:



4. As Above:



5. Identify oxidizing and reducing agent in these pairs:



Not a pair.

They are structural isomers