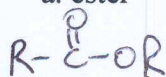


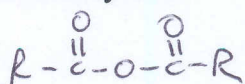
Organic Chemistry 2342-Quiz 7

1. Provide general structures for each type of carbonyl compound listed below. (4)

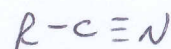
a. ester



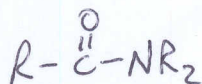
b. acid anhydride



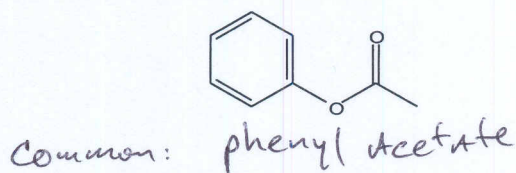
c. nitrile



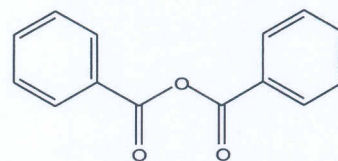
d. amide



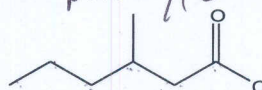
2. Provide names for each of the following compounds. (10)



or
IUPAC: phenylethanoate

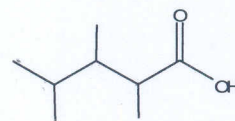


Benzoic Anhydride



β -methyl caproyl chloride

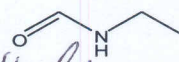
or
2-methyl hexanoyl chloride



Common: α, β, γ -Trimethylvaleric acid

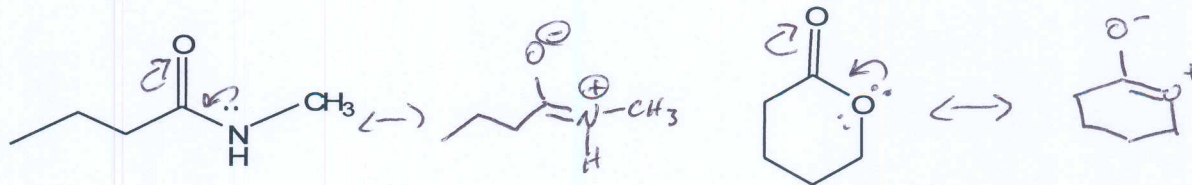
or

IUPAC: 1,2,3-Trimethylpentanoic acid

 N-ethylformamide or N-ethylmethanamide

IUPAC:

3. Draw resonance structures for the following compounds. (4)



4. What is the hybridization and geometry of the carbonyl carbon? (2)

sp^2 / Trigonal planar

