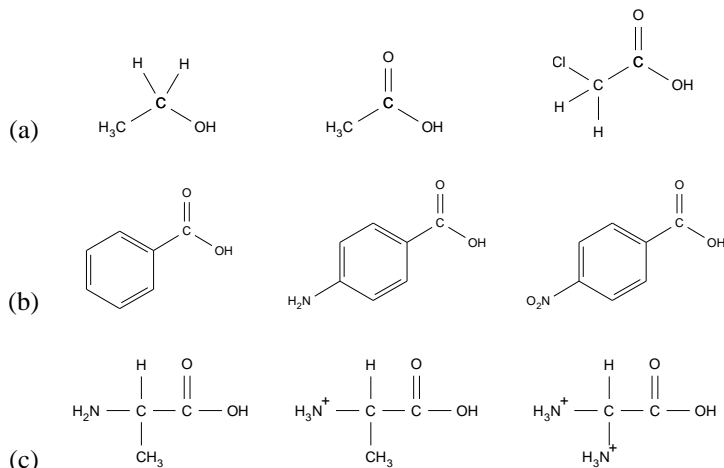


H				He
C	N	O	F	Ne
Si	P	S	Cl	Ar

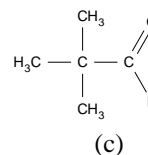
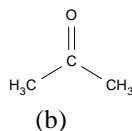
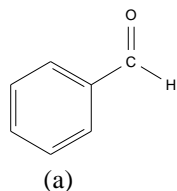
Name: _____

CHEM 20482 - Basic Organic Chemistry II - Spring 2009 Quiz #3 - 0 Points

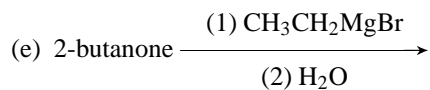
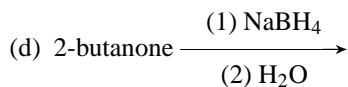
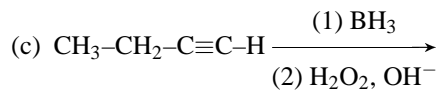
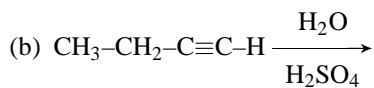
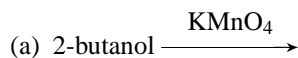
1. For each of the following sets of molecules, rank from 1=most acidic to 3=least acidic.



2. Give the name for each of the following compounds.

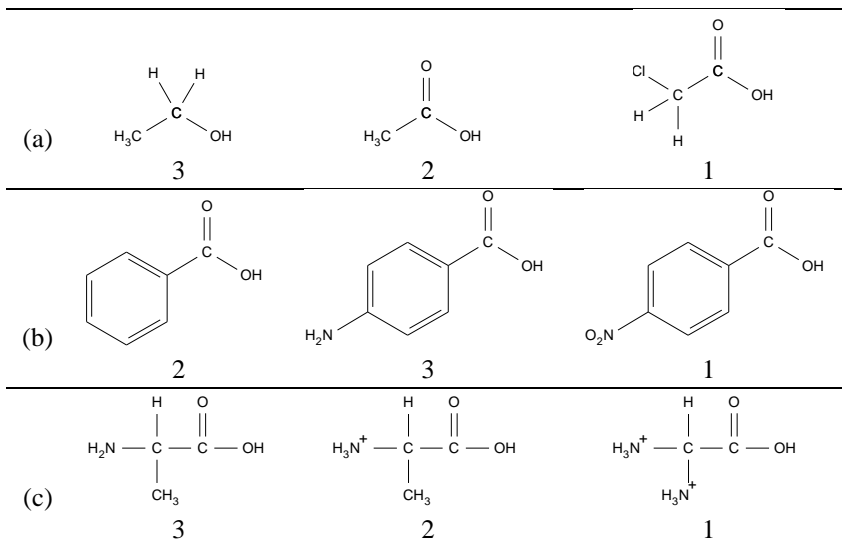


3. Draw the structure of the major product expected from the following reactions.



CHEM 20482 - Basic Organic Chemistry II - Spring 2009 Quiz #3 Key

1. Rank from 1=most acidic to 3=least acidic.



2. Give the name for each of the following compounds.

- (a) benzaldehyde
- (b) acetone or propanone
- (c) 2,2-dimethylpropanal

3. Draw the structure of the major product expected from the following reactions.

- (a) 2-butanol $\xrightarrow{\text{KMnO}_4}$ 2-butanone
- (b) $\text{CH}_3\text{-CH}_2\text{-C}\equiv\text{C-H} \xrightarrow[\text{H}_2\text{SO}_4]{\text{H}_2\text{O}}$ 2-butanone
- (c) $\text{CH}_3\text{-CH}_2\text{-C}\equiv\text{C-H} \xrightarrow[\text{(2) H}_2\text{O}_2, \text{OH}^-]{\text{(1) BH}_3}$ butanal
- (d) 2-butanone $\xrightarrow[\text{(2) H}_2\text{O}]{\text{(1) NaBH}_4}$ 2-butanol
- (e) 2-butanone $\xrightarrow[\text{(2) H}_2\text{O}]{\text{(1) CH}_3\text{CH}_2\text{MgBr}}$ 2-ethyl-2-butanol