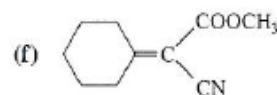
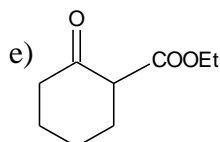
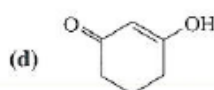
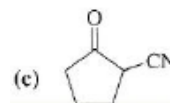
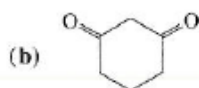
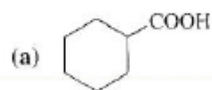
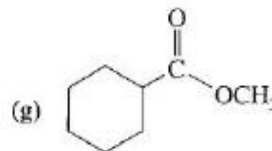
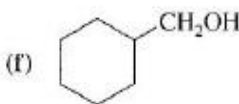
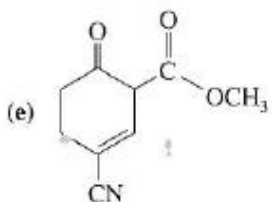
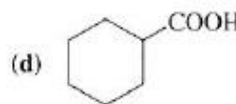
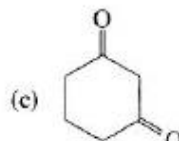
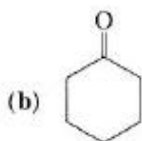
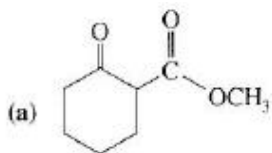


- 1) For each of the following compounds: indicate the most acidic hydrogen; draw the most important resonance contributor resulting from the removal of the acidic hydrogen.



- 2) Rank the following compounds in order of increasing acidity. Indicate which compounds will be more than 99% deprotonated by sodium ethoxide.



- 3) Pentane-2,4-dione (acetylacetone) exists as a tautomeric mixture of 8% keto and 92% enol forms. Draw the stable enol tautomer and explain its unusual stability.

