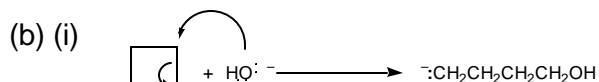


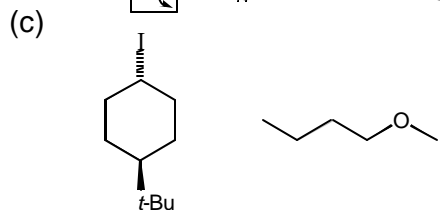
Practice Exam 3i - Answers

1. D, F, J, O, Q, V, AA, CC

2. (a) see Solomons Figure 6.7

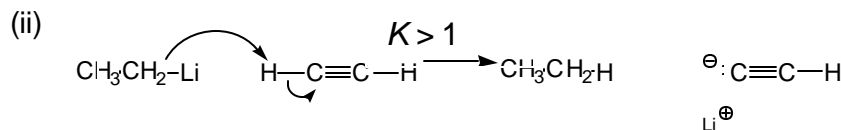
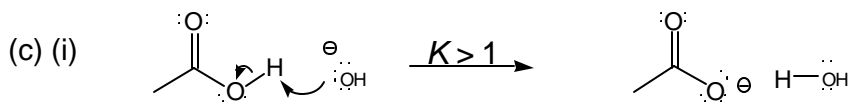
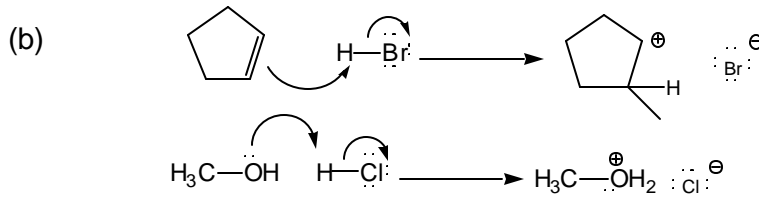
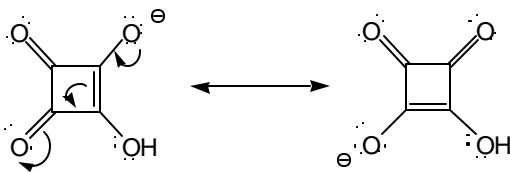


(ii) -The C-C bond is not polarized or polarizable
- The carbanion (product) is unstable



(d) The carbocation which would be formed by dissociation of bromide anion cannot attain planarity (i.e., to become sp^2)

3. (a) The conjugate base (anion) of **A** is resonance stabilized, whereas ethoxide, the conjugate base of ethanol, is not.



(d) The pair of electrons of the acetylide anion are in a lower energy sp orbital compared to the pair of electrons of the CH_3CH_2^- anion (sp^3 orbital)

