





- 10. (15 pts.) The  $^{1}H$  NMR of a compound  $C_{8}H_{12}O$  is shown below.
- (a) The number of double bonds and rings is <u>3</u>. *Hint: The structure contains a ring.*
- (b) Write part structures revealed by the chemical shifts, splitting and number of hydrogens for the regions requested. In each part structure, **circle** the hydrogens responsible for the absorption and **underline** the hydrogens that give rise to the splitting.

