





- 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.

