Quiz 2-B

1. (a) A keyboard instrument is tuned to equal temperament according to the “scientific” pitch standard of $C_4 = 256$ Hz. What would be the frequency of the note $E_4$ on this instrument?

   ![Keyboard Diagram]

   (b) Describe one advantage and one disadvantage of tuning a keyboard instrument in equal temperament.

2. The wood resonance of a cello lies noticeably above the fundamental frequency of its $D_3$ string. How could you alter the design of the instrument in order to lower this resonance? Explain your answer.
3. A major distinction between guitars and violins is the presence of frets along a guitar’s fingerboard. In a sentence or two, describe one advantage of having frets on a stringed instrument.

4. How do you think time in discussion sections should be spent? What aspect of them would you like to see changed?