Quiz 2 Submission Abinash Maharana 2018111033

- 1. c. Vibrational
- 2. b. Increases
- 3. C. 3<4<1<2
- 4. A. Infrared radiation is higher in energy than UV radiation.
- 5. D. 1 < 4 ≈ 2 < 3
- 6. D. All of the above
- 7. B. proportional to the strength of the vibrating bond and inversely proportional to the masses of the atoms connected by the bond.
- 8. A. change in vibrational energy without a change in electronic energy levels.
- 9. B. asymmetrical stretching/bending
- 10. C. 12500 4000 cm -1
- 11. A. f = -kq
- 12. A. Force constant
- 13. C. Force constant of the bond and masses of the atoms
- 14. A. C-H, C-C, C-O, C- Cl, C-Br
- 15. B. Frequency of vibrations, asymmetric stretching> Frequency of vibrations, symmetric stretching