

**Ch7/ PowerPoint Study- 1 Quantum Theory**

**Name:**

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*Answer these questions as you are watching the videos. They are due in class.*

*These questions are not just for you to answer but also to prepare you for the exam.*

*Make sure you understand what you are writing and not just copy from the text book. **Show all work.***

1) Arrange the following radiations in increasing wavelength.  
Ultra-violet, radio, X-rays, visible

2) True or False: wavelength is directly proportional to energy.

3) True or False: frequency is directly proportional to energy.

4) Write briefly the contribution of the following scientists:

Max Planck:

Bohr:

Schrodinger:

Heisengberg:

5) Explain the following terms:

Quantum:

Wave function:

Ground state: