Quiz#6 **EACH QUESTION IS WORTH 2 POINTS**

1. ***IS THIS SENTENCE TRUE OR FALSE.*** Oscillation is the movement back and forth of energy at a regular speed. **ANSWER: \_\_TRUE\_**
2. ***LIST THE EXAMPLES.*** What are the similarities of electromagnetic waves?
3. **ALL MOVE AT THE SPEED OF LIGHT/SAME SPEED**
4. **CARRY ENERGY**
5. ***LIST THE EXAMPLES.*** What are the differences of electromagnetic waves?
6. **ALL HAVE DIFFERENT FREQUENCIES**
7. **ALL TRAVEL DIFFERENT DISTANCES**
8. Radio waves have the longest wavelengths, is the frequency high or low?

**LOW FREQUENCY**

1. Gamma rays have the shortest wavelengths, is the frequency high or low?

**HIGH FREQUENCY**

1. Give me one example of how are radio waves used aside from radio and television?

**HERE ARE TWO: RADAR SYSTEMS AND SATELLITES**

1. ***IS THIS SENTENCE TRUE OR FALSE.*** Microwaves are used for cooking only. **ANSWER \_\_\_FALSE\_\_**
2. Are Infrared waves longer than visible light?

**YES**

1. Give me one example of Infrared (IR) waves.

**HERE ARE ALL THE POSSIBLE EXAMPLES: METEROLOGY, NIGHT VISION DEVICES, COMMUNICATION, AND ASTRONOMY.**

1. What does ROY G.BIV stands for?

**If they missed 1 or 2 I still gave them 2 points**

**Either answer:**

**COLOR OF THE RAINBOW**

**OR**

**RED ORANGE YELLOW GREEN BLUE INDIGO VIOLET**

1. What is the significant source of UV light?

**THE SUN**

1. What is used for the sterilization of medical instruments?

**UV LIGHT**

1. ***FILL IN THE BLANK.*** Sterilization is the process of making something ­­­\_\_**FREE**\_\_ from bacteria or other living microorganisms.
2. What do we use X-rays for?

**EXAMINATION OF BONES**

1. What are gamma rays used for?

**GAMMA RAYS CAN BE USED TO DESTROY CELSS AS CANCEROUS TUMORS**

**EXTRA CREDIT**

1. **How is a rainbow formed?**

**LIGHT IS REFLECTED ON DROPLETS OF WATER.**