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. **FILL IN THE BLANK.** What are the similarities of electromagnetic waves?
3. All move at the same \_SPEED OR SPEED OF LIGHT\_
4. Carry **ENERGY**
5. **FILL IN THE BLANK.** What are the differences of electromagnetic waves?
6. All have different \_\_\_\_**FREQUENCY**\_\_\_\_
7. All travel different \_**DISTANCES**\_\_\_\_
8. Radio waves have the longest wavelengths, is the frequency high or low?

**LOW**

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

**HIGH**

1. **IS THIS SENTENCE TRUE OR FALSE.** Radio waves can be used in radar systems and satellites. **ANSWER \_\_TRUE\_\_**
2. **IS THIS SENTENCE TRUE OR FALSE.** Microwaves are used for cooking only. **ANSWER** \_\_**FALSE**\_\_
3. **FILL IN THE BLANK.** Infrared (IR) waves are longer than \_**VISIBLE LIGHT**\_\_.
4. Give me one example of infrared (IR) waves.

**Here are some examples: meteorology, night vision devices, communication, and astronomy**

1. What does ROY G. BIV stands for?

**RAINBOW COLORS**

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 and other living microorganisms.
2. **FILL IN THE BLANK.** X-rays are used for the examination of the \_\_**BONES**\_\_.
3. Gamma rays are used to destroy harmful cells as ­­­­­­­­­­\_\_\_\_**CANCEROUS CELLS**\_\_\_.