DELAWARE PHYSICS · UNIT 4 · 5 QUESTIONS

# Light and Modern Physics — Practice Test

This practice test was made by AI and there may be mistakes. If a question or answer looks wrong, use the Flag a mistake button to let Brett know so he can fix it.

**1** **Which of the following is an example of relativity?**

- A a single packet of light
- B time passing slower for a fast traveler
- C light knocking electrons from a surface
- D electrons diffracting like waves

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**2** **Which statement best describes relativity?**

- A photons carry energy proportional to frequency
- B the photoelectric effect supports the photon model
- C relativity was developed by Einstein
- D duality means behavior depends on the experiment

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3 **Tall sunflower in full bloom in a sunny garden. Which term is defined as follows: the full range of electromagnetic waves?**



A photon

B electromagnetic spectrum

C photoelectric effect

D wave particle duality

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4 **Which of the following is an example of electromagnetic spectrum?**

A a single packet of light

B light knocking electrons from a surface

C radio waves through gamma rays

D electrons diffracting like waves

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5 **Which statement best describes electromagnetic spectrum?**

A photons carry energy proportional to frequency

B the photoelectric effect supports the photon model

C duality means behavior depends on the experiment

D the spectrum is ordered by wavelength and frequency

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## ANSWER KEY

1. B
2. C
3. B
4. C
5. D

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