DELAWARE PHYSICS · UNIT 4 · 10 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 term is defined as follows: light amplified into a narrow, coherent beam?**

- A photon
- B photoelectric effect
- C laser
- D wave particle duality

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2 **Which of the following is an example of laser?**

- A a single packet of light
- B light knocking electrons from a surface
- C electrons diffracting like waves
- D a beam used in a barcode reader

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3 **Which statement best describes laser?**

A laser light is coherent and nearly one color

B photons carry energy proportional to frequency

C the photoelectric effect supports the photon model

D duality means behavior depends on the experiment

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4 **Which term is defined as follows: a material with conductivity between a conductor and an insulator?**

A photon

B photoelectric effect

C wave particle duality

D semiconductor

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5 **Which of the following is an example of semiconductor?**

A silicon in a computer chip

B a single packet of light

C light knocking electrons from a surface

D electrons diffracting like waves

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6 **Which statement best describes semiconductor?**

A photons carry energy proportional to frequency

B semiconductors are the basis of modern electronics

C the photoelectric effect supports the photon model

D duality means behavior depends on the experiment

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7 **Which term is defined as follows: a model describing the structure of an atom?**

- A atom model
- B photon
- C photoelectric effect
- D wave particle duality

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8 **Which of the following is an example of atom model?**

- A a single packet of light
- B electrons in shells around a nucleus
- C light knocking electrons from a surface
- D electrons diffracting like waves

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9 **Which statement best describes atom model?**

A photons carry energy proportional to frequency

B the photoelectric effect supports the photon model

C models of the atom have changed with new evidence

D duality means behavior depends on the experiment

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10 **Which term is defined as follows: a permitted energy state for an electron in an atom?**

A photon

B energy level

C photoelectric effect

D wave particle duality

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ANSWER KEY

1.	C	**5.**	A	**9.**	C
2.	D	**6.**	B	**10.**	B
3.	A	**7.**	A		
4.	D	**8.**	B		

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