NORTH DAKOTA PHYSICS · NORTH DAKOTA

North Dakota Physics

Practice Test

Unit 4: Light and Modern Physics

5 Questions

Original practice test based on the North Dakota curriculum. Work through each question, then check your answers at the end.

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.

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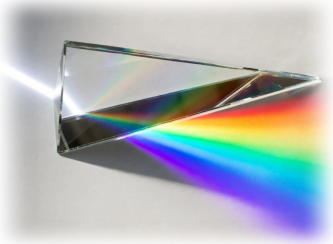

Question 1

Light travels from glass into air and speeds up. The ray bends

A) toward the normal

B) away from the normal

C) not at all

D) back on itself

Understand It with Pulse Flag a mistake

Question 2

A flat mirror forms an image that is

A) real and inverted

B) real and upright

C) virtual and inverted

D) virtual and upright

Understand It with Pulse Flag a mistake

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Question 3

In the photoelectric effect, increasing the light frequency above threshold increases the

A) number of electrons only

B) work function

C) wavelength

D) maximum kinetic energy of electrons

Understand It with Pulse Flag a mistake

Question 4

The half life of a sample is 5 years. After 15 years, the fraction remaining is

A) one half

B) one fourth

C) one eighth

D) one sixteenth

Understand It with Pulse Flag a mistake

Question 5

A sample starts with 100 g of a radioactive isotope. After three half lives, the mass remaining is

A) 50 g

B) 25 g

C) 12.5 g

D) 33.3 g

Understand It with Pulse Flag a mistake

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ANSWER KEY

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

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