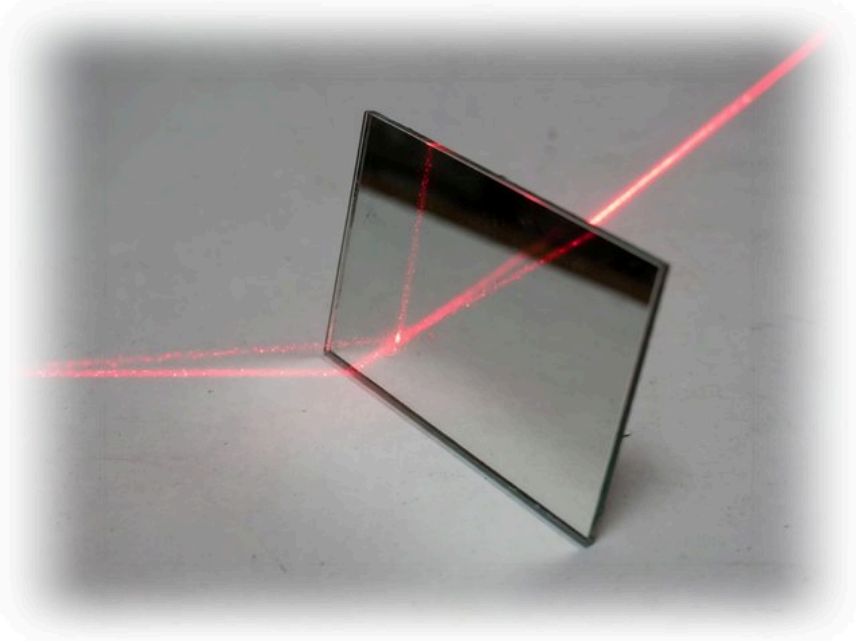
MANITOBA PHYSICS 40S · UNIT D · 5 QUESTIONS

Medical 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 **Thin red laser beam striking a small rectangular plane mirror on a plain white surface, reflecting off at an angle, large in frame. An ultrasound pulse travels at 1500 metres per second and returns after 4 milliseconds. The distance to the reflecting surface, in metres, is**



ANSWER

Understand It with Pulse | Flag a mistake

2 **A mass of 2 kilograms absorbs 10 joules of radiation energy. The absorbed dose, in gray, is**

ANSWER

Understand It with Pulse | Flag a mistake

3 **A sample has an activity of 120 becquerel. After 2 half-lives, its activity, in becquerel, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

4 **Ionizing radiation can damage living cells by damaging**

A water only

B bone only

C DNA

D blood only

Understand It with Pulse | Flag a mistake

5 **An ultrasound pulse travels at 1500 metres per second and returns after 8 milliseconds. The distance to the reflecting surface, in metres, is**

ANSWER _____

Understand It with Pulse | Flag a mistake

ANSWER KEY

1. 3
2. 5
3. 30
4. C
5. 6

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