MANITOBA PHYSICS 40S · UNIT D · 10 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 **Medical ultrasound uses**

- A X-rays
- B gamma rays
- C sound waves
- D radioactive tracers

Understand It with Pulse | Flag a mistake

2 **MRI uses magnetic fields and radio waves and does not use**

- A magnets
- B radio waves
- C computers
- D ionizing radiation

Understand It with Pulse | Flag a mistake

3 **PET imaging uses a**

A radioactive tracer

B magnet

C sound pulse

D laser

Understand It with Pulse | Flag a mistake

4 **The half-life of a radioactive sample is the time for**

A all of it to decay

B half of it to decay

C it to double

D it to melt

Understand It with Pulse | Flag a mistake

5 **The unit of absorbed radiation dose is the**

A becquerel

B gray

C tesla

D watt

Understand It with Pulse | Flag a mistake

6 **The unit of radioactivity is the**

A gray

B tesla

C becquerel

D sievert

Understand It with Pulse | Flag a mistake

7 **Ultrasound images are formed from**

A reflected sound echoes

B transmitted X-rays

C reflected light

D magnetic signals

Understand It with Pulse | Flag a mistake

8 **Ultrasound is often used for prenatal imaging because it does not use**

A sound

B electricity

C magnets

D ionizing radiation

Understand It with Pulse | Flag a mistake

9 **X-rays are a form of**

A electromagnetic radiation

B sound waves

C particles only

D visible light only

Understand It with Pulse | Flag a mistake

10 **X-rays pass through soft tissue more easily than through**

A skin

B bone

C air

D water

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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