ENGLAND GCSE PHYSICS EDEXCEL HIGHER · UNIT 6 · 10 QUESTIONS

Radioactivity — 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 **A calculator uses a battery. What energy is stored in the battery?**

- A light energy from the Sun
- B kinetic energy of motion
- C chemical energy
- D thermal energy from heat

Understand It with Pulse | Flag a mistake

2 **Silver coins conduct electricity well. Why?**

- A they are shiny and reflective
- B they are cold
- C they are heavy
- D they have free electrons

Understand It with Pulse | Flag a mistake

3 **A thermometer measures temperature in degrees Celsius. What is the freezing point of water on this scale?**

- A 0
- B 32
- C 10
- D 100

Understand It with Pulse | Flag a mistake

4 **A sample has a half-life of 5 days. What percentage of the sample is left after 20 days?**

- A 94%
- B 3%
- C 12%
- D 6%

Understand It with Pulse | Flag a mistake

5 **A sample starts with 8000 counts per minute. After one half-life, what is the count rate?**

- A 8000
- B 2000
- C 4000
- D 16000

Understand It with Pulse | Flag a mistake

6 **Why do workers handling radioactive sources wear protective clothing?**

- A to block all radiation completely
- B to keep them warm
- C to make them visible
- D to stop skin contamination

Understand It with Pulse | Flag a mistake

7 **Why is iodine-131 used to treat the thyroid gland?**

- A it stops all radiation
- B it makes the thyroid grow
- C it is absorbed by the bones
- D it goes to the thyroid

Understand It with Pulse | Flag a mistake

8 **A sample has an activity of 800 counts per minute. After 2 half-lives, what is its activity?**

- A 400
- B 100
- C 800
- D 200

Understand It with Pulse | Flag a mistake

9 **Which type of radiation is stopped by aluminium?**

A neutron

B gamma

C alpha

D beta

Understand It with Pulse | Flag a mistake

10 **A wristwatch is used to time a race. What is speed calculated from?**

A mass and time together

B distance only, not time

C distance and time

D time only, not distance

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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