ENGLAND GCSE PHYSICS EDEXCEL FOUNDATION · 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 **Silver coins are made of a metal. Which property do metals have?**

- A they do not conduct electricity at all
- B they dissolve in water
- C they are brittle
- D they conduct electricity

Understand It with Pulse | Flag a mistake

2 **A wristwatch measures time. What is the unit of time?**

- A the minute
- B the second
- C the hour
- D the day

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

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

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4 **What does background radiation come from?**

- A the Sun only
- B rocks, air, space, medicine
- C power stations only, nowhere else
- D mobile phones only

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5 **Why is carbon-14 used to date old objects?**

- A it is found in all rocks
- B it lasts thousands of years
- C it never decays
- D it glows in the dark, like a watch

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6 **How can radiation be stopped?**

- A by washing the source
- B by heating the source
- C by cooling the source
- D by shielding

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7 **A sample has a half-life of 10 years. After 20 years, what fraction remains?**

- A 1/8
- B 1/2
- C 3/4
- D 1/4

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8 **Where does nuclear fusion happen naturally?**

- A in the Sun and stars
- B in a car engine, like petrol
- C in a battery
- D in a light bulb

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9 **Which type of radiation needs thick lead to stop it?**

- A alpha
- B beta
- C gamma
- D neutron

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10 **A calculator is switched on. What does the battery transfer energy to?**

- A the circuits
- B the case
- C the screen only
- D the buttons only

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ANSWER KEY

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

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