ENGLAND GCSE PHYSICS EDEXCEL HIGHER · UNIT 6 · 5 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 are brittle
- C they conduct electricity
- D they dissolve in water

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2 **Which type of radiation has the longest range in air?**

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

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3 **An atom has a mass number of 23 and an atomic number of 11. How many neutrons does it have?**

- A 14
- B 13
- C 12
- D 11

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4 **In beta decay, what happens to the mass number of the nucleus?**

- A it falls by 4, like in alpha decay
- B it rises by 1, like the atomic number
- C it stays the same
- D it falls by 1, like a proton

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5 **Glass marbles are used to model atoms. What is a limitation of the model?**

A marbles are too small to see properly

B marbles are the wrong colour for atoms

C marbles are much bigger than atoms

D marbles cannot be counted accurately at all

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ANSWER KEY

1. C
2. A
3. C
4. C
5. C

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