ENGLAND GCSE PHYSICS AQA HIGHER · UNIT 4 · 5 QUESTIONS

Atomic Structure — 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 **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 much bigger than atoms
- C marbles cannot be counted accurately at all
- D marbles are the wrong colour for atoms

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2 **A sample's activity halves every 5 years. After 10 years, what fraction of the original activity remains?**

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

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3 **How can the risk from a radioactive source be reduced?**

- A by warming it up
- B keep distance, limit time
- C by looking at it closely, every day
- D by holding it for longer

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

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

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5 **A radioactive sample has an activity of 1600 Bq. What is its activity after 2 half-lives?**

- A 1600 Bq
- B 200 Bq
- C 800 Bq
- D 400 Bq

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ANSWER KEY

1. B
2. C
3. B
4. D
5. D

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