ENGLAND GCSE PHYSICS OCR GATEWAY 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 **A Ferris wheel is at the top. What is the person's height like?**

- A at its smallest
- B at zero
- C unchanged
- D at its greatest

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

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

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3 **A sample has a half-life of 5 days. What percentage of the sample is left after 10 days?**

- A 12%
- B 50%
- C 25%
- D 75%

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4 **A guitar string is tightened. What happens to the pitch?**

- A it disappears
- B it falls
- C it rises
- D it stays the same

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5 **A nucleus gives out an alpha particle. What is the alpha particle?**

- A one fast electron, like a beta particle
- B one proton only
- C pure energy
- D two protons and two neutrons

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6 **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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7 **Which type of radiation is stopped by paper?**

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

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

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

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9 **Why are gamma rays used to sterilise medical equipment?**

- A they make the equipment stronger
- B they kill bacteria
- C they make the equipment radioactive
- D they heat the equipment up

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10 **Glass marbles are shaken in a tray. What does this model?**

- A particles freezing into place
- B particles bonding together
- C particles gaining energy
- D particles disappearing completely

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ANSWER KEY

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

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