ENGLAND GCSE COMBINED SCIENCE OCR GATEWAY FOUNDATION · UNIT 16 · 10 QUESTIONS

Waves and 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 so it can be fixed.

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

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

Understand It with Pulse | Flag a mistake

2 **Glass marbles in a tray are used as a model for particles in a solid. What do the marbles show?**

- A particles move freely through space
- B particles vibrate in fixed positions
- C particles are far apart from each other
- D particles flow past each other easily

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

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

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4 **An atom has a mass number of 16 and an atomic number of 8. How many neutrons does it have?**

- A 10
- B 9
- C 7
- D 8

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5 **What is contamination?**

A a type of decay that is dangerous

B exposure to radiation from a source

C a type of fission that is uncontrolled

D radioactive material on a surface

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6 **What happens to the activity of a sample over time?**

A it falls

B it stays the same

C it falls then rises

D it rises

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7 **A kite is held by a string. What force does the string exert?**

A gravity

B air resistance

C friction

D tension

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

A it stays the same

B it disappears

C it falls

D it rises

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9 **A set square measures angles. What is a right angle?**

A 45 degrees

B 360 degrees

C 90 degrees

D 180 degrees

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10 **A Ferris wheel is at the top. What is the person's height like?**

A at its smallest

B unchanged

C at its greatest

D at zero

Understand It with Pulse | Flag a mistake

ANSWER KEY

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

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