ENGLAND GCSE COMBINED SCIENCE OCR TWENTY FIRST CENTURY HIGHER · UNIT 8 · 10 QUESTIONS

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

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

Understand It with Pulse | Flag a mistake

2 **A thermometer shows a patient's temperature is 39 degrees Celsius. Is this above or below normal body temperature?**

- A impossible to tell
- B below normal
- C above normal
- D exactly normal

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3 **What is the electronic structure of chlorine (atomic number 17)?**

- A 2,8,6
- B 2,8,7
- C 2,8,8
- D 2,7,8

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4 **What did Newlands notice about the elements?**

- A the elements fell into groups of three with matching properties
- B the lightest elements were all gases
- C every eighth element had similar properties
- D every element had a different mass

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5 **An atom of aluminium loses 3 electrons. What is the charge on the ion formed?**

- A -3
- B +3
- C 0
- D +2

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6 **An element, copper, has isotopes. 69 percent have a mass of 63 and 31 percent have a mass of 65. What is the relative atomic mass of copper?**

A 64.1

B 62.6

C 63.6

D 64.6

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7 **What is the formula of methane?**

A C_2H_4

B CH_3

C CH_2

D CH_4

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8 **What is the formula of sodium chloride?**

A NaCl

B Na_2Cl_2

C $NaCl_2$

D Na_2Cl

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9 **What is the centre of an atom called?**

A the electron shell

B the neutron

C the nucleus

D the proton

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10 **How does reactivity change down Group 7?**

A it stays the same

B it stops

C it increases

D it decreases

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ANSWER KEY

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

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