EXAM PAPER

Chemistry Unit 1 & 2 — Practice Exam 1

PREVIEW
This file has the first 15 of the 30 questions in this paper. The rest is locked: it comes with a PrepNest plan, or with the paper itself for VCE.

Reading time: 15 minutes (no writing)
Writing time: 45 minutes
Total time: 60 minutes

SECTIONS IN THIS PAPER

- Chemistry — 45 min

INSTRUCTIONS

You are not permitted to write during reading time — you may only read the paper and plan your approach. Answer every question you can. Write your working in the space provided for long-answer questions. Marking guidance and full explanations are provided in the separate answer key.

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Chemistry

45 minutes

1. How many electrons can the first electron shell (n = 1) hold at maximum?

A. 2

B. 8

C. 18

D. 6

2. What does the atomic number of an element tell you?

A. The number of neutrons

B. The number of protons plus neutrons

C. The number of protons

D. The number of outer-shell electrons

3. In the reaction $Mg + 2HCl \rightarrow MgCl_2 + H_2$, what type of reaction is this?

A. Combustion

B. Neutralisation

C. Displacement

D. Decomposition

4. What are the correct coefficients to balance: $__H_2 + __O_2 \rightarrow __H_2O$?

A. 1, 1, 1

B. 2, 1, 2

C. 2, 2, 2

D. 1, 2, 1

5. How many electrons can the second electron shell (n = 2) hold at maximum?

A. 2

B. 18

C. 6

D. 8

6. An atom of carbon has atomic number 6. How many protons does it have?

A. 8

B. 14

C. 6

D. 12

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7. What is the term for atoms of the same element with different numbers of neutrons?

A. Isotopes

B. Molecules

C. Ions

D. Isomers

8. What charge does a neutron carry?

A. Positive charge

B. Negative charge

C. Variable charge

D. No charge (neutral)

9. An atom that has lost an electron becomes a:

A. Negative ion (anion)

B. Positive ion (cation)

C. Neutral atom

D. Isotope

10. Elements in the same column (group) of the periodic table generally have the same number of:

A. Protons

B. Valence (outer shell) electrons

C. Total electron shells

D. Neutrons

11. What type of reaction releases heat energy to the surroundings?

A. Exothermic reaction

B. Reduction reaction only

C. Endothermic reaction

D. Neutral reaction

12. What is produced when an acid reacts with a base?

A. Only a gas

B. Only a salt

C. Oxygen and hydrogen

D. A salt and water

13. Balance the equation: __N2 + __H2 → __NH3

A. 1, 2, 1

B. 2, 3, 1

C. 1, 3, 3

D. 1, 3, 2

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14. What is the correct chemical formula for water?

A. HO2

B. H2O

C. H3O

D. H2O2

15. In the reaction Zn + CuSO4 → ZnSO4 + Cu, zinc displaces copper. What type of reaction is this?

A. A decomposition reaction

B. A single displacement reaction

C. A combustion reaction

D. A neutralisation reaction

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15 questions locked, up to question 30.

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PREVIEW

That’s the end of the preview

You’ve seen the first 15 of the 30 questions in Chemistry Unit 1 & 2 — Practice Exam 1. The full paper is worth 30 marks.

STILL TO COME	QUESTIONS	MARKS
Chemistry	15	15

The full paper comes with

- Every question, printed exactly like the ones in this preview
- The complete answer key, with the working behind every mark
- A topic report after marking, showing what to practice next

Get the full paper at

prepnest.com.au/practice/exams/chemistry-year_11-1

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