

History of Advanced Chemistry

Chemistry History · Answer Key · 8 Questions

1. Which scientist is credited with the discovery of the element Polonium in 1898?

- A) Marie Curie**
- B) Dmitri Mendeleev
- C) Antoine Lavoisier
- D) Robert Boyle

2. In 1913, Niels Bohr published his model of the atom, which famously incorporated what concept to explain electron stability?

- A) Quantum quantization of orbits**
- B) The uncertainty principle
- C) The wave-particle duality
- D) The plum pudding arrangement

3. Who is historically recognized for establishing the Law of Conservation of Mass in 1789?

- A) Antoine Lavoisier**
- B) John Dalton
- C) Joseph Priestley
- D) Carl Wilhelm Scheele

4. The 1953 discovery of the double-helix structure of DNA involved contributions from Watson, Crick, and which other scientist using X-ray diffraction images?

- A) Rosalind Franklin**
- B) Linus Pauling
- C) Ernest Rutherford
- D) Enrico Fermi

5. Which chemical process, developed by Fritz Haber and Carl Bosch in the early 20th century, revolutionized the production of synthetic fertilizers?

- A) Ammonia synthesis**
- B) Fractional distillation
- C) Electrolysis of brine
- D) Catalytic cracking

6. What did Humphry Davy famously isolate for the first time using electrolysis in 1807?

A) Potassium

B) Oxygen

C) Gold

D) Helium

7. Who was the first person to synthesize urea from inorganic precursors in 1828, effectively challenging the concept of vitalism?

A) Friedrich Wöhler

B) August Kekulé

C) Louis Pasteur

D) Emil Fischer

8. In 1869, Dmitri Mendeleev published the first widely recognized version of the periodic table, famously leaving gaps for elements that had not yet been:

A) Discovered

B) Synthesized

C) Named

D) Ionized