Question: What is the atomic number of oxygen?
Options:
a) 6
b) 7
c) 8
d) 9
Answer: c
Question: Which of the following has the highest electronegativity?
Options:
a) Fluorine
b) Oxygen
c) Nitrogen
d) Chlorine
Answer: a
Question: What is the shape of the methane (CH <sub>4</sub> ) molecule?
Options:
a) Linear
b) Trigonal planar
c) Tetrahedral
d) Square planar
Answer: c
Question: What is the value of Avogadro's number?
Options:
a) 6.022 × 10 <sup>22</sup>
b) 6.022 × 10 <sup>23</sup>
c) $6.022 \times 10^{24}$
d) $6.022 \times 10^{21}$

Answer: b

Question: Which gas is commonly known as "laughing gas"?
Options:
a) Carbon dioxide
b) Nitrous oxide
c) Sulfur dioxide
d) Ammonia
Answer: b
Question: Which of the following is the strongest acid?
Options:
a) HCl
b) H <sub>2</sub> SO <sub>4</sub>
c) HNO <sub>3</sub>
d) HF
Answer: b
Question: The pH of a neutral solution at 25°C is:
Options:
a) 0
b) 7
c) 10
d) 14
Answer: b
Question: Which law states that the total pressure exerted by a mixture of gases is equal to the sum of partial pressures of individual gases?
Options:
a) Boyle's Law
b) Charles's Law
c) Dalton's Law

d) Avogadro's Law
Answer: c
Question: Which metal is extracted using the Hall-Héroult process?
Options:
a) Copper
b) Zinc
c) Aluminum
d) Iron
Answer: c
Question: What is the general formula of alkanes?
Options:
a) CnH₂n
b) CnH <sub>2</sub> n <sub>+2</sub>
c) CnH <sub>2</sub> n <sub>-2</sub>
d) CnH <sub>2</sub> n <sub>+1</sub>
Answer: b