

94. Which phrase describes a compound that consists of two elements?

- A. a mixture in which the elements are in a variable proportion
- B. a mixture in which the elements are in a fixed proportion
- C. a substance in which the elements are chemically combined in a variable proportion
- D. a substance in which the elements are chemically combined in a fixed proportion

95. Which two elements have the most similar chemical properties?

- A. beryllium and magnesium
- B. hydrogen and helium
- C. phosphorus and sulfur
- D. potassium and strontium

96. The valence electrons in an atom of phosphorus in the ground state are all found in

- A. the first shell
- B. the second shell
- C. the third shell
- D. the fourth shell

97. Which change occurs when an atom in an excited state returns to the ground state?

- A. Energy is emitted.
- B. Energy is absorbed.
- C. The number of electrons decreases.
- D. The number of electrons increases.

98. Which type of organic reaction produces both water and carbon dioxide?

- A. addition
- B. combustion
- C. esterification
- D. fermentation

99. Which group consists entirely of organic molecules?

- A. protein, oxygen, fat
- B. protein, starch, fat
- C. water, carbon dioxide, oxygen
- D. water, starch, protein

100. Which particle has two neutrons?

- A. ${}^1_0\text{n}$
- B. ${}^2_1\text{H}$
- C. ${}^3_1\text{H}$
- D. ${}^4_2\text{He}$

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