

Quiz 2

Date: _____

Name: _____



A multiple choice quiz. Tick the boxes to record the answer

1. Which particles are involved in ionic bonding?

- A ☐ Atoms which share delocalised electrons
- B ☐ Atoms which share pairs of electrons
- C ☒ Oppositely charged ions

2. Which particles are involved in covalent bonding?

- A ☐ Atoms which share delocalised electrons
- B ☒ Atoms which share pairs of electrons
- C ☐ Oppositely charged ions

3. When does metallic bonding occur?

- A ☐ In most non-metallic elements and in compounds of non-metals
- B ☐ In compounds formed from metals combined with non-metals
- C ☒ In metallic elements and alloys

4. Which type of bonding is found in sodium chloride?

- A ☒ Ionic
- B ☐ Covalent
- C ☐ Metallic

5. Predict the bond that will form between Ca and F.

- A ☒ Ionic
- B ☐ Covalent
- C ☐ Hydrogen
- D ☐ Metallic

6. Which of the following is true about covalent compounds?

- A ☐ High melting point
- B ☐ Can dissolve in water
- C ☒ Cannot dissolve in water
- D ☒ Low melting point
- E ☐ Can conduct electricity

7. Which of the following have the same number of electrons? [proton number: F, 9; Na, 11; Mg, 12; Cl, 17; K, 19]

- A ☐ Na⁺ and K⁺
- B ☐ F⁻ and Cl⁻
- C ☒ Na⁺ and Mg²⁺
- D ☐ Na⁺ and Cl⁻

8. What is meant by dative bond?

- A ☐ A bond formed between a hydrogen atom and a highly electronegative atom.
- B ☒ A covalent bond in which a pair of electrons are shared from only one atom.
- C ☐ A bond formed by electrostatic attraction force between sea of electrons and metal ions.
- D ☐ Bond formed from electron sharing between non-metal atoms.

9. What is meant by hydrogen bond?

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10. Water molecules tend to make _____ bonds with each other.

- A ☐ ionic
- B ☐ polar covalent
- C ☐ metallic
- D ☒ hydrogen