Mild Bonding Practice

| Nan | ne: | Date: |
|-----|--|--|
| 1. | Which pair of elements form an ionic bond with each other? | 6. Which bond has the greatest ionic character? |
| | A. KCl B. ICl C. PCl D. HCl | A. H-Cl B. H-F C. H-O D. H-N |
| 2. | Which substance is an ionic solid? | |
| | A. LiCl B. HCl C. Ne D. Fe | 7. Which kind of bond is formed when two atoms share electrons to form a molecule? |
| | | A. ionic B. metallic |
| | | C. electrovalent D. covalent |
| 3. | Which substance is an ionic solid? | |
| | A. LiCl B. HCl C. Ne D. Fe | |
| 4. | Which substance is an ionic solid? | 8. One atom of A forms a coordinate covalent bond with one atom of B. This bond could have been formed by an atom of B |
| | A. LiCl B. HCl C. Ne D. Fe | formed by an atom of B |
| | | A. sharing two electrons belonging to an atom of A |
| | | B. sharing only one electron belonging to an atom of A |
| _ | Which command contains ionic hand-9 | C. transferring two electrons to an atom of A |
| 5. | Which compound contains ionic bonds? | D. transferring only one electron to an atom of A |
| | A. NaBr(s) B. HBr(g) | |

C. $C_6H_{12}O_6(s)$

D. $CO_2(g)$

- Energy is released when the atoms of two elements bond to form a compound. Compared to the total potential energy of the atoms before bonding, the total potential energy of the atoms after bonding is
 - A. lower and the compound formed is stable
 - lower and the compound formed is unstable
 - higher and the compound formed is stable
 - D. higher and the compound formed is unstable

- 10. Which element is composed of atoms that can form more than one covalent bond with each other?
 - hydrogen
- B. helium
- C. carbon
- D. calcium

- Which type of chemical bond is formed between two atoms of bromine?
 - metallic
- B. hydrogen
- C. ionic
- D. covalent

- 12. The P-Cl bond in a molecule of PCl₃ is
 - A. nonpolar covalent
- polar covalent
- C. coordinate covalent D. electrocovalent

- Which electron dot formula represents a nonpolar molecule?
 - H:C:CI:
- H : C : H H
- Which electron dot formula represents a polar molecule?
 - ö:c:ö
- H:C:H
- С. _Н:ö: Ё
- The bond between hydrogen and oxygen in a water molecule is classified as
 - ionic and nonpolar
 - ionic and polar
 - covalent and nonpolar
 - D. covalent and polar
- Which formula represents a molecule with the most polar bond?
 - A. CO
- B. NO
- C. HI
- D. HCl

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| 1. Answer: | A |
|---|--------|
| 2. Answer: | A |
| 3. Answer: | A |
| 4. Answer: | A |
| 5. Answer: | A |
| 6. Answer: | В |
| 7. Answer: | D |
| 8. Answer: | A |
| 9. | |
| Answer: | A |
| Answer: 10. Answer: | A C |
| 10. | |
| 10. Answer: | С |
| 10. Answer: 11. Answer: 12. | C D |
| 10. Answer: 11. Answer: 12. Answer: 13. | C D |
| 10. Answer: 11. Answer: 12. Answer: 13. Answer: 14. | C D B |