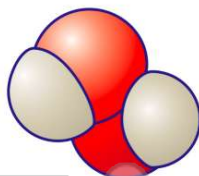




Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

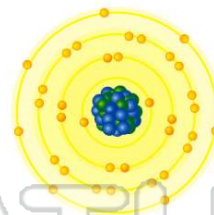
1 The **formula  $H_2O_2$**  is an example of

- A a molecular formula
- B an empirical formula
- C an ionic formula
- D an organic formula



2 Which type of bond is formed when an atom of potassium **transfers an electron** to a bromine atom?

- A metallic
- B ionic
- C nonpolar covalent
- D polar covalent



3 What is the **simplest ratio** of **nitrogen to oxygen** atoms in the compound **nitrogen (IV) oxide**?

- A 1:2
- B 2:1
- C 2:4

4 A diamond crystal **differs** from an ice crystal in that a diamond crystal

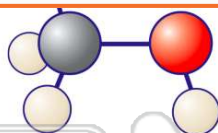
- A crushes easily
- B conducts electricity
- C contains no discrete particles



## PREVIEW

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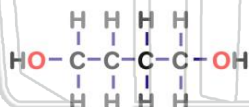
- B electrovalent
- C polar covalent
- D nonpolar covalent



- B  $Na_2SO_4$
- C  $NaSO_3$
- D  $NaSO_4$



9 Given the structural formula:

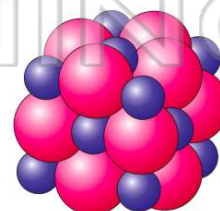


What is the **empirical formula** of this compound?

- A  $CH_3O$
- B  $C_2H_5O$
- C  $C_4H_{10}O_2$
- D  $C_8H_{20}O_4$

10 Which **type of bond** is found in **sodium bromide**?

- A covalent
- B hydrogen
- C ionic
- D metallic

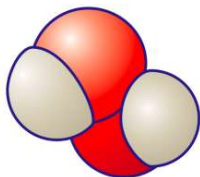




## ANSWER KEY

The **formula  $H_2O_2$**  is an example of

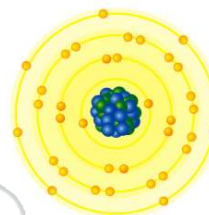
- A a molecular formula
- B an empirical formula
- C an ionic formula
- D an organic formula



(a)

Which type of bond is formed when an atom of potassium **transfers an electron** to a bromine atom?

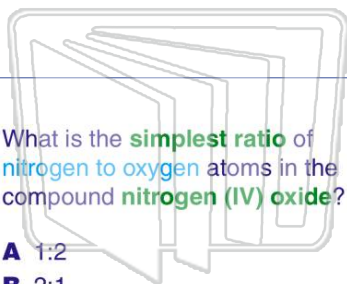
- A metallic
- B ionic
- C nonpolar covalent
- D polar covalent



(b)

What is the **simplest ratio** of **nitrogen to oxygen** atoms in the compound **nitrogen (IV) oxide**?

- A 1:2
- B 2:1
- C 2:4
- D 4:2



(a)

A diamond crystal **differs** from an ice crystal in that a diamond crystal

- A crushes easily
- B conducts electricity
- C contains no discrete particles
- D melts at a temperature below  $0^{\circ}C$



(c)



## PREVIEW

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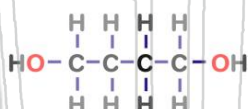
- C polar covalent
- D nonpolar covalent



- D  $NaSO_4$



Given the structural formula:



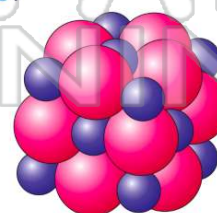
What is the **empirical formula** of this compound?

- A  $CH_3O$
- B  $C_2H_5O$
- C  $C_4H_{10}O_2$
- D  $C_8H_{20}O_4$

(c)

Which **type of bond** is found in **sodium bromide**?

- A covalent
- B hydrogen
- C ionic
- D metallic



(c)