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preparation exam Chemistry الملف

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Chemistry		Name	
Test: Covalent Bo	nding		
Multiple Choice Directions: Identify	the choice that best compl	etes the statement or ar	swers the question.
1. The force that h	olds atoms together is refer	red to as a .	
a. cation	b. chemical bond		d. lattice
A covalent bond a. share	b. transfer	electrons.	
Compounds that a. high	t contain covalent bonds ha b. low	ve melting point	S.
	ond has one pair of electronent b. single ionic		
5. Water is a a. polar	substance. b. nonpolar c	. ionic	
Chlorine is a dia a. polar	tomic molecule. Chlorine i b. nonpolar	s molecule.	
7. A double covale	ent bond occurs when two a	toms share elect	rons.
a. 1	b. 2 c	. 3 d.	4
11. Which of the foll	lowing elements has the hig	thest electronegativity?	
a. Oromine	b. Chiorine	c. Habrine	d. Iodilie
	in which the electrons are		ied as
a. polar	b. nonpolar	c. ionic	
14. Covalently bond	ed molecules consist of a n	onmetal bonded to a	4
a. metal	b. nonmetal	necestrals are trouble to Author tradition that are the second and the second	
15. Covalently bond	ed molecules conduct electr	ricity in the liquid state	
a. true	b. false	200 WARE THE DR 1500 VILLOUITE	

energy level. a. 0 Which of the fo a. hydrogen wer questions 1: An atom of carl a. 2 How many sing a. 1 A diatomic oxy a. single	b. 1 blowing elemen b. ox 9-21 about the elemen b. 4 gle covalent bon b. 2 gen molecule for b. double t molecule show	c. 2 Its does NC Tygen Element can valence elec c ds can an a c orms what	etrons 6 tom of carbon for . 3	d. 8	ile? d. nitrogen	
energy level. a. 0 Which of the fo a. hydrogen wer questions 1: An atom of carl a. 2 How many sing a. 1 A diatomic oxy a. single Which covalent	b. 1 blowing elemen b. ox 9-21 about the elemen b. 4 gle covalent bon b. 2 gen molecule for b. double t molecule show	c. 2 Its does NC Tygen Element can valence elec c ds can an a c orms what	d. 3 T exist as a diato c. carbon rbon. etrons. 6 tom of carbon for 3	d. 8	ile? d. nitrogen	
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An atom of carl a. 2 How many sing a. 1 A diatomic oxy a. single Which covalent	bon has v b. 4 gle covalent bon b. 2 gen molecule for b. double	ds can an a	etrons 6 tom of carbon for . 3	m? d. 4	f the above	
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a. 2 How many sing a. 1 A diatomic oxy a. single Which covalent	b. 4 gle covalent bon b. 2 gen molecule fo b. double	ds can an a c orms what t	tom of carbon for 3	m? d. 4	f the above	
a. 1 A diatomic oxy a. single Which covalent	b. 2 gen molecule for b. double t molecule show	orms what to	ype of bond?	d. 4	f the above	
a. 1 A diatomic oxy a. single Which covalent	b. 2 gen molecule for b. double t molecule show	orms what to	ype of bond?	d. 4	f the above	
a. single Which covalent	b. double t molecule show	с		d. all o	f the above	
a. single Which covalent	b. double t molecule show	с		d. all o	f the above	
		n below ha		c. triple d. all of the above		
			is the strongest be	nd?		
A) = =	L) 14 - 14		_			
	b) 14—14	· c)				
A molecule is f	formed when two	o or more :	tome form a cave	lent hand	According	to this definition
			noms form a cova	item oong.	According	o uns deminio
a. NaCl	b. H ₂	Ĺ	c. HCl		d. NH ₃	
		ne atoms to	gether in an F ₂ m	olecule wo	uld be classi	fied as nonpola
a. both atoms	are different and					
	which of these a. NaCl The bond that I covalent becau a. both atoms b. both atoms c. both atoms	which of these is NOT a molec a. NaCl b. H ₂ The bond that holds two fluoring covalent because a. both atoms are different and b. both atoms are different and c. both atoms are the same and	which of these is NOT a molecule? a. NaCl b. H ₂ The bond that holds two fluorine atoms to covalent because a. both atoms are different and the different b. both atoms are different and the different b. both atoms are the same and the different b. both atoms are the same and the different b.	which of these is NOT a molecule? a. NaCl b. H ₂ c. HCl The bond that holds two fluorine atoms together in an F ₂ m covalent because a. both atoms are different and the difference in electrones b. both atoms are different and the difference in electrones c. both atoms are the same and the difference in electrones.	which of these is NOT a molecule? a. NaCl b. H ₂ c. HCl The bond that holds two fluorine atoms together in an F ₂ molecule work covalent because a. both atoms are different and the difference in electronegativity is le b. both atoms are different and the difference in electronegativity is z c. both atoms are the same and the difference in electronegativity is la	a. NaCl b. H_2 c. HCl d. NH_3 The bond that holds two fluorine atoms together in an F_2 molecule would be classi

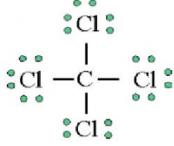
- 27. Which of the following is the correct name for the compound N2O3?

 - a. nitrogen oxide b. nitrogen trioxide
- c. trinitrogen dioxide
- d. dinitrogen trioxide
- 28. Which of the following is the correct name for the compound PCl₅?
 - a. monophosphorus tetrachloride
- c. phosphorus pentachloride

b. phosphorus chloride

- d. pentaphosphorus chloride
- 29. Which is the correct formula for the compound dinitrogen monoxide?
- b. (NO)2
- c. N₂O₁
- 30. Which is the correct formula for the compound sulfur hexachloride?
 - a. S₆Cl
- b. SCl6
- c. SCl₅
- d. S2Cl3

Use the diagram below to answer questions 31-34



- 32. The bonds in the molecule represented above are
 - a. polar
- b. nonpolar
- c. ionic
- 34. The name of the compound represented by the diagram above is
 - a. carbon chloride
- c. carbon tetrachloride
- b. monocarbon tetrachloride
- d. tetrachlorine monocarbide

Use the diagram below to answer questions 35-38.



- 36. The bonds in the molecule represented above are
 - a. polar
- b. nonpolar
- c. ionic

38. The name of the compound represented by the diagram above is _____.

a. nitrogen hydride

c. nitrogen trihydride

b. hydrogen nitride

d. mononitrigen trihydride

Directions: Match the formulas with the correct names.

 $\begin{array}{ccc} 43. \ S_8O_5 & a. \ trisulfur \ tetraoxide \\ 44. \ S_3O_4 & b. \ hexasulfur \ heptaoxide \\ 45. \ S_6O_7 & c. \ octasulfur \ pentoxide \\ \end{array}$

Directions: Match the names with the correct formula.

46. Disilicon tetrachloride
 47. Trinitrogen hexafluoride
 b. Br₅Cl₇

48. Pentabromine heptachloride c. Si₂Cl₄