Instructions for Completing Retest Assignment

- 1. You have been given the correct answers; however, you should go through and answer the questions as though you do not in order to see which items you need help with during tutoring.
- 2. You must write 1-2 sentences per question explaining why the answer is what it is. This must be done on your own paper.
- 3. You should come to tutoring to ask questions about any of the questions you do not understand. Attending tutoring is not required, but strongly encouraged.
- 4. This assignment is due on the day of the retest and must be completed before you will be allowed to take the retest.

5.	Retest date is	in room	from
	2·30-3·30nm		

Questions I have and need to ask about:

Bonding Retest Assignment

Nar	ne: _					Date:	
		ich is the formula fo MgS MnS	r magnesium sulfide? B. MgSO ₃ D. MnSO ₃	4.	A. chromium (III B. chromium (III C. chromium (III	I) phosphate II) phosphate	
2.	Bas geo A.	sed on the VSEPR the metry of a molecule linear trigonal planar	eory, what is the molecular of PI ₃ ? B. tetrahedral D. trigonal pyramidal	5.	Which of the fol ammonium hydrox	lowing is the formula for kide?	
					A. Al ₂ O ₃ C. NH ₃ OH	B. AmO ₂ D. NH ₄ OH	
3.	Which formula is correctly paired with its name? A. MgCl ₂ —magnesium chlorine B. K ₂ O—phosphorus dioxide C. CuCl ₂ —copper (II) chloride D. FeO—iron (III) oxide		6.	Which is the formula for sodium perchlorate? A. NaClO B. NaClO C. NaClO D. NaClO			
						D. NaClO ₄	

- 7. Which electron dot formula represents a polar molecule?
 - A. H:H
- C. Ḥ H:C:H H
- D. : F: F

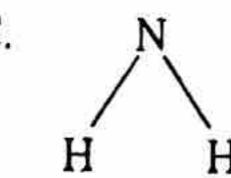
- 8. What is the chemical formula for calcium nitrate?
 - A. CaNO₃
- B. $Ca(NO_2)_2$
- C. $Ca(NO_3)_2$
- D. Ca_3N_2

- 9. Which formula represents a polar molecule?
 - A. CH₄
- . Cl₂
- C. NH₃
- $D. N_2$

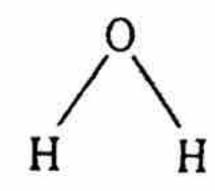
- 10. Which of the following is a covalent compound?
 - A. CO₂
- B. K_2O
- C. NaCl
- D. MgCl₂

- 11. Which molecule is nonpolar?
 - A. H-Cl
- B. O=C=O

C.



D.



- 12. What is the correct IUPAC name for the compound NH₄Cl?
 - A. nitrogen chloride
 - B. nitrogen chlorate
 - C. ammonium chloride
 - D. ammonium chlorate

- 13. Covalent bonds are formed when electrons are
 - A. transferred from one atom to another
 - B. captured by the nucleus
 - C. mobile within a metal
 - D. shared between two atoms

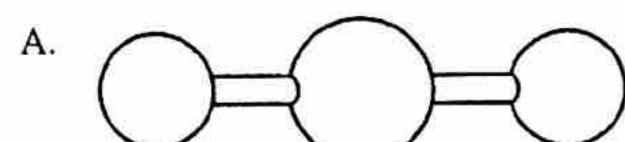
- 14. What is the correct name of the compound with the formula NH₄NO₂?
 - A. ammonia nitrite
- B. ammonium nitrite
- C. ammonia nitrate
- D. ammonium nitrate

- 15. Which substance is a good conductor of electricity in both the solid and liquid phases?
 - A. a metallic substance
 - B. an ionic substance
 - C. a network substance
 - D. a molecular substance

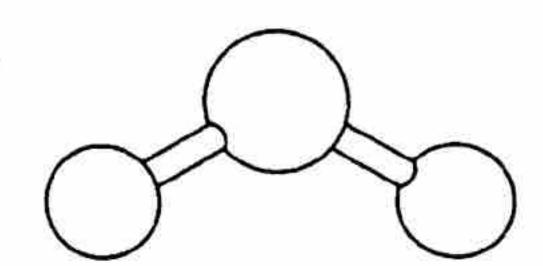
- 16. What is the name of the compound with the chemical formula CrCl₃?
 - A. chromium tetrachloride
 - B. chromium trichloride
 - C. chromium(II) chloride
 - D. chromium(III) chloride

- 17. What is the shape of a molecule which has two shared pairs of electrons and no unshared pairs?
 - A. tetrahedral
- B. bent
- C. trigonal planar
- D. linear

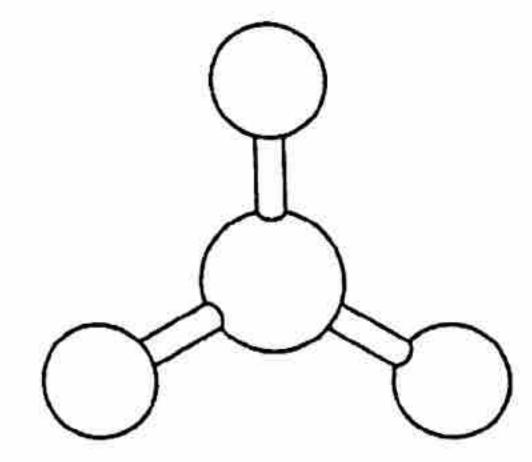
18. Which of the following models best represents the shape of a compound with trigonal planar geometry?



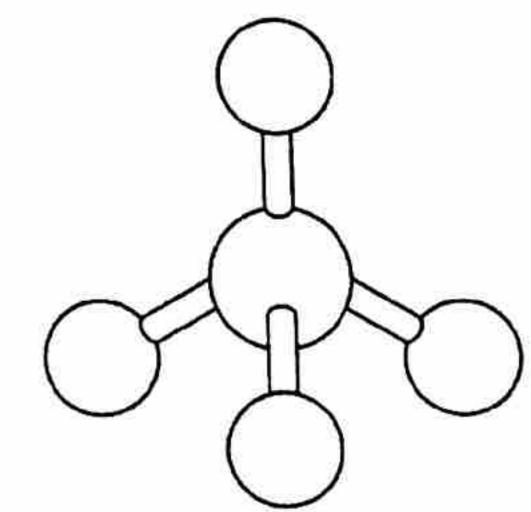
В.



C.



D.



- 19. Which formula represents an ionic compound?
 - A. $H_2O(\ell)$
- B. NaCl(s)
- C. $NH_3(g)$
- D. $CCl_4(\ell)$

- 20. Which formula correctly represents the compound calcium hydroxide?
 - A. CaOH
- B. Ca₂OH
- C. CaOH₂
- D. Ca(OH)₂

- 21. Which formula correctly represents iron (III) oxide?
 - A. Fe₂O₃ B. Fe₃O₂ C. FeO₃ D. Fe₃O

- 22. The correct formula for sodium oxide is
 - A. SO₂ B. S₂O C. NaO₂ D. Na₂O

- 23. The correct name of the compound with the formula PbO₂ IS
 - A. lead (I) oxide
- B. lead (II) oxide
- C. lead (III) oxide
- D. lead (IV) oxide

- 24. Which substance contains bonds that involved the transfer of electrons from one atom to another?
 - A. CO₂ B. NH₃ C. KBr D. Cl₂

- 25. Which molecule contains a triple covalent bond?
 - $A. \ \ \, H_2 \qquad B. \ \ \, N_2 \qquad C. \ \ \, O_2 \qquad D. \ \ \, Cl_2$

- 26. Which is the correct formula for dinitrogen pentoxide?
 - A. N₄O B. NO₂ C. N₂O₅ D. NO₄

- 27. What compound has the chemical formula MgI₂?
 - A. di-iodide magnesium
 - B. iodide(II) magnesium
 - C. magnesium iodide
 - D. magnesium(I) iodine(II)

- 28. A crystalline solid has a high melting point and is a good conductor of electricity in the liquid state. This solid could be
 - A. CO₂
- B. Hg
- $C. C_6H_{12}O_6$
- D. KCl

- 29. What type of bonding is associated with compounds that have the following characteristics:
 - high melting points
 - conduct electricity in the molten state
 - solutions conduct electricity
 - normally crystalline solids at room temperature.
 - A. covalent
- B. ionic
- C. hydrogen
- D. metallic

30. The chemical formula for ammonia is NH₃. Which of the following is the correct Lewis electron dot structure for ammonia?

- 31. The correct name for an aqueous solution of HCl is
 - A. chloric acid.
- B. chlorous acid.
- C. hydrochloric acid.
- D. hydrogen chloride.

- 32. Which pair of elements would most likely bond to form a covalently bonded compound?
 - A. sodium and fluorine
 - B. barium and chlorine
 - C. phosphorus and oxygen
 - D. magnesium and sulfur

- 33. Based on the VSEPR theory, what is the molecular geometry of CO₂?
 - A. linear
- B. tetrahedral
- C. trigonal planar
- D. trigonal pyramidal

34. What is the Lewis dot structure for nitrogen trifluoride (NF₃)?

$$D : \dot{F} - \dot{F} - N - \dot{F}$$

- 35. What is the name of the compound whose formula is H_2SO_4 ?
 - A. hydrosulfuic acid
- B. hydrosulfurous acid
- C. sulfuric acid
- D. sulfurous acid

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Bonding Retest Assignment 3/7/2018

1. Answer:	A			21. Answer:	A
2. Answer:	D		-	22. Answer:	D
3. Answer:	C			23. Answer:	D
4. Answer:	В			24. Answer:	С
5. Answer:	D			25. Answer:	В
6. Answer:	D			26. Answer:	С
7. Answer:	В			27. Answer:	С
8. Answer:				28. Answer:	D
9. Answer:	C			29. Answer:	В
10. Answer:	Α		Z	30. Answer:	Α
11. Answer:	В			31. Answer:	
12. Answer:	C			32. Answer:	С
13. Answer:	D	[<u>€</u>		33. Answer:	Α
14. Answer:	В			34. Answer:	Α
15. Answer:	A			35. Answer:	С
16. Answer:	D				
17. Answer:	D				
18. Answer:	C				
19. Answer:	В				
20.					

Answer: