Which pair of elements is most likely to form an ionic compound?	0.5 pt
 oxygen and chlorine magnesium and fluorine sodium and aluminum nitrogen and sulfur 	
Question 3 Covalent compounds are generally made up of elements found in which parperiodic table? O lower left	0.5 pts
 lower left upper right left and right upper left 	
Question 4 Which is the correct order of increasing bond strength? O triple, double, single	0.5 pts
single, double tripledouble, single, tripledouble, triple, single	
Question 5 Which do you predict to have the strongest C–N bond? HCN All are equal.	0.5 pts
○ NHCH ₂ ○ NH ₂ CH ₃	
 Question 6 Which of the following contains only covalent bonding and no ionic bonding NaOH Ca(NO₃)₂ 	0.5 pts
CCI ₄ Na ₂ SO ₄ Question 7	0.5 pts
What total number of valence electrons should appear in the dot formula for clO ₃ ⁻ ? 28 24	r the chlorate
3026 Question 8	0.5 pt:
An element E has the electronic configuration [Ne] $3s^2 3p^1$. Write the formula compound with sulfate.	
 E₃(SO₄)₂ E₃SO₄ E₂(SO₄)₃ 	
Question 9 An element E has the electronic configuration 1s ² 2s ² 2p ⁴ . What is the form compound with lithium? O Li ₂ E	0.5 pts
 □ Li₄E □ LiE₂ □ LiE 	
Question 10 Which of the following demonstrates the formation of an ionic compound invelements Na and S? \mathbb{C} \mathbb	0.5 pts
O Na ²⁺ + S ²⁻ → NaS Question 11 Which of the following is the best representation of the compound calcium s	0.5 pts
Which of the following is the best representation of the compound calcium s Ca ⁺ , S ⁻ Ca ²⁺ , 2S ⁻ 2Ca ⁺ , S ²⁻ Ca ²⁺ , S ²⁻	
O 3Ca ²⁺ , 2S ³⁻ Question 12	0.5 pt
What is the bond order of the O–O bond in O ₂ ? O 0 O 3 O 1	
Question 13 How many lone pairs of electrons are on nitrogen in NF ₃ ?	1 pts
How many lone pairs of electrons are on nitrogen in NF ₃ ? three one zero two	
Question 14 How many unshared electrons and bonding electrons exist around the cent ozone (O ₃)?	1 pts
two, six six, two four, four zero, eight	
Question 15 What is the bond order of the C–C bond in acetylene (ethyne, C_2H_2)?	1 pts
 1.5 2 1 3 	
Question 16 How many total bonds and lone pairs exist in the Lewis structure for chloring (CIF)?	1 pts e fluoride
 2, 4 1, 4 1, 6 3, 2 	
Question 17 Which of the following compounds contains exactly one unshared pair of value electrons?	1 pts
 PH₃ C₂H₄ H₂S SiH₄ 	
Question 18 How many total bonds and lone pairs exist in the Lewis structure for boron to	1 pts
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Homework 07 - Bonding