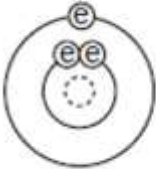
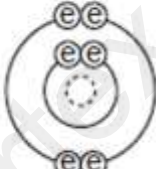
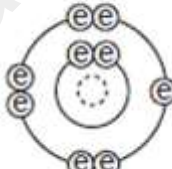
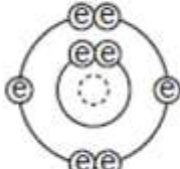

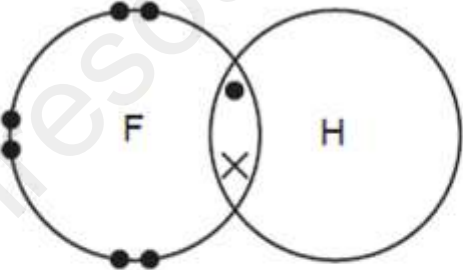


No:	COVALENT AND IONIC BONDS-SET-1															
1	<p>Covalent bonds are formed when electrons are1..... . Covalent compounds have2..... electrical conductivity.</p> <p>Which words correctly complete gaps 1 and 2?</p> <table border="1" data-bbox="329 445 753 699"> <thead> <tr> <th></th> <th>1</th> <th>2</th> </tr> </thead> <tbody> <tr> <td>A</td> <td>shared</td> <td>high</td> </tr> <tr> <td>B</td> <td>shared</td> <td>low</td> </tr> <tr> <td>C</td> <td>transferred</td> <td>high</td> </tr> <tr> <td>D</td> <td>transferred</td> <td>low</td> </tr> </tbody> </table>		1	2	A	shared	high	B	shared	low	C	transferred	high	D	transferred	low
	1	2														
A	shared	high														
B	shared	low														
C	transferred	high														
D	transferred	low														
Ms-1	B															
2	<p>The diagrams show the electron arrangements in the atoms of four elements.</p> <p>Which element does not form a covalent bond?</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>A</p>  </div> <div style="text-align: center;"> <p>B</p>  </div> <div style="text-align: center;"> <p>C</p>  </div> <div style="text-align: center;"> <p>D</p>  </div> <div style="margin-left: 20px;"> <p>key</p> <p>ⓔ electron</p> <p>⊙ nucleus</p> </div> </div>															
Ms-2	A															

3	<p>The diagram shows the outer shell electron arrangement of compound J that contains the elements Y and Z.</p>  <p>What type of compound is J?</p> <p>A an alloy B a macromolecule C covalent D ionic</p>
Ms-3	C
4	<p>In which compounds are pairs of electrons shared between atoms?</p> <p>1 sodium chloride 2 methane 3 lead bromide</p> <p>A 1 only B 2 only C 1 and 3 D 1, 2 and 3</p>
Ms-4	B

5	<p>In which compounds are pairs of electrons shared between atoms?</p> <p>1 methane 2 lead bromide 3 sodium chloride</p> <p>A 1 only B 2 only C 1 and 3 D 1, 2 and 3</p>
Ms-5	A
6	<p>The diagram shows a molecule of hydrogen fluoride.</p>  <p>In the molecule hydrogen fluoride, HF,</p> <p>A the hydrogen and fluorine share a pair of electrons. B the hydrogen and fluorine share a pair of protons. C the hydrogen gives the fluorine an electron. D the hydrogen gives fluorine a proton.</p>
Ms-6	A

7	<p>-</p> <p>Which statement about gaseous hydrogen chloride and solid potassium chloride is correct?</p> <p>A Hydrogen chloride is covalent but potassium chloride is ionic. B Hydrogen chloride is ionic but potassium chloride is covalent. C They are both covalent compounds. D They are both ionic compounds.</p>										
Ms-7	C										
8	<p>The table shows the electronic structures of four atoms.</p> <table border="1" data-bbox="776 783 1224 1083"> <thead> <tr> <th>atom</th> <th>electronic structure</th> </tr> </thead> <tbody> <tr> <td>W</td> <td>2,1</td> </tr> <tr> <td>X</td> <td>2,7</td> </tr> <tr> <td>Y</td> <td>2,8,4</td> </tr> <tr> <td>Z</td> <td>2,8,8</td> </tr> </tbody> </table> <p>Which two atoms combine to form an ionic compound?</p> <p>A W and X B W and Y C X and Y D X and Z</p>	atom	electronic structure	W	2,1	X	2,7	Y	2,8,4	Z	2,8,8
atom	electronic structure										
W	2,1										
X	2,7										
Y	2,8,4										
Z	2,8,8										
Ms-8	A										

9

The following statement is about chemical bonds.

Covalent bonds are formed by the ...1... of electrons. Covalent substances have ...2... electrical conductivity.

Which words complete the statement?

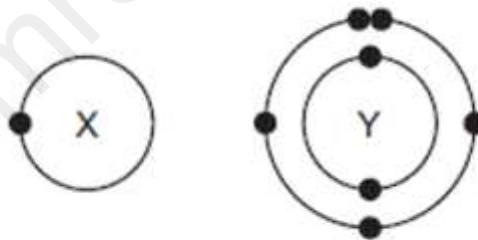
	1	2
A	sharing	high
B	sharing	low
C	transfer	high
D	transfer	low

Ms-9

B

10

The electronic structures of atoms X and Y are shown.



X and Y form a covalent compound.

What is its formula?

A XY_5 B XY_3

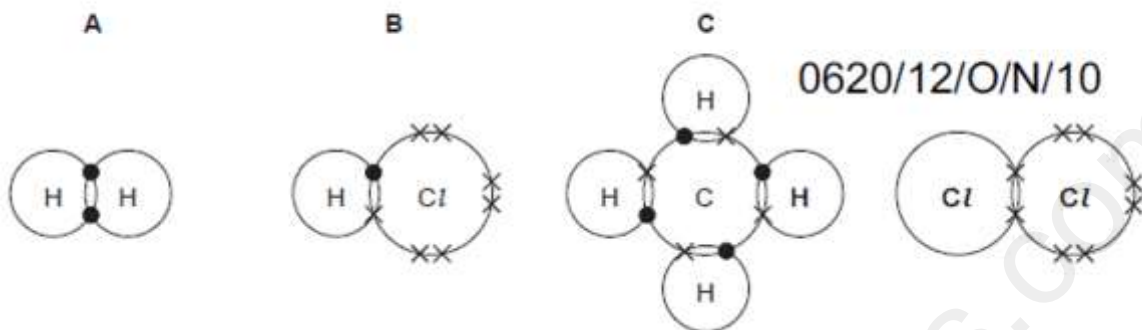
C XY

D X_3Y

Ms-10

D

11

Which diagram does **not** show the outer shell electrons in the molecule correctly?Ms-
11

D