O Level Combined Chemistry MCQs

Chemical Bonding Test 2.0

Q1

Two elements P and Q react together to form an ionic compound with the formula P_3Q_2 Which row describes the bonding between P and Q correct?

	electrons given away by each atom of P	electrons received by each atom of Q
A	2	3
В	DU 3.110	3
C	3	1
D	3	2

Q2

Which of the following statements is not true?

- A A single covalent bond is formed by the sharing of two electrons.
- B Carbon dioxide molecule has two double bonds.
- C Covalent compounds are usually solids at room conditions.
- D In the formation of ammonia, each nitrogen atom will share three pairs of electrons with three hydrogen atoms.

Q3

Element P has n protons and forms an ion with a charge of 2-. Element Q has (n+1) protons.

What is the type and formula of the compound formed between elements P and Q?

- A a covalent compound, P2Q
- B a covalent compound, PQ2
- C an ionic compound, PQ2
- D an ionic compound, P2Q

The table shows four elements W, X, Y and Z with their proton numbers.

element	W	Х	Υ	Z
proton number	6	8	11	17

Which of the following shows the correct formula of likely ionic and covalent compounds formed from the four elements shown above?

	formula of ionic compound	formula of covalent compound		
Α	WX	YZ		
В	YW	WZ ₄		
С	YZ	ZX		
D	Y ₂ X	WX ₂		

Q5
Which of the following could be an ionic compound?

	melting	boiling	electrical conductivity of		
	point / °C	point / °C	solid	liquid	solution in water
Α	1610	2230	poor	poor	insoluble
В	660	2470	good	good	insoluble
С	-112	-83.7	poor	poor	good
D	801	1413	poor	good	good

Q6

Which of the following is likely to have an ionic lattice structure?

	making paint 190	electrical conductivity		
substance	melting point /°C	in solid state	in molten state	
Α	-78	poor	good	
В	651	poor	good	
C	900	good	good	
D	1710	poor	poor	

Q7
Elements X and Y form the compound X₃Y. Which of the following is the correct electronic configuration of atoms X and Y?

	electronic configuration of atom X	electronic configuration of atom Y
Α	2,1	2,3
В	2,5	2,1
C	2,8,1	2,8,5
D	2,8,5	2,8,3

Q8

The table shows four elements W, X, Y and Z with their proton numbers

element	W	Х	Y	Z	
proton number	6	8	11	17	

Which of the following shows the correct formula of likely ionic and covalent compounds formed from the four elements shown above?

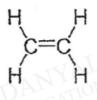
	formula of ionic compound	formula of covalent compound
Α	MX	YZ
В	WY	WZ ₄
С	YZ	ZX
D	Y ₂ X	WX ₂

Which of the following could be an ionic compound?

	melting point boiling		electrical conductivity of		
	1.0℃	point / °C	solid	liquid	solution in water
Α	1610	2230	poor	рооғ	insoluble
В	660	2470	good	good	insoluble
С	-112	-83.7	poor	poor	good
D	801	1413	poor	good	good

Q10

How many electrons are shared in the covalent bonds in an ethene molecule?



- A 5
- **B** 6
- C 10
- D 12





Answers

Chemical Bonding Test 2.0

Q1 A

Q2 C

Q3 B

Q4 D

Q5 D

Q6 B

Q7 C

Q8 D

Q9 D

Q10 D

DANYAL

DANYAL

DANYAL

DANYAL