

# CHEMISTRY

UNIT 1(IAL)  
2019 — 2023

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**ANSWERS**

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1 - (WCH11/1(IAL)\_Summer\_2019\_Q1) - Structure, Bonding And Introduction To Organic Chemistry

Which statement is **not** true for sodium chloride?

- A sodium chloride conducts electricity in aqueous solution
- B sodium chloride conducts electricity when molten
- C sodium chloride has a molecular structure
- D sodium chloride has a giant structure

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2 - (WCH11/1(IAL)\_Summer\_2019\_Q2) - Structure, Bonding And Introduction To Organic Chemistry

Which of these molecules is the **most** polar?

- A H—H
- B H—F
- C H—Cl
- D H—Br

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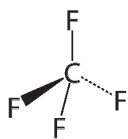
3 - (WCH11/1(IAL)\_Summer\_2019\_Q3) - *Structure, Bonding And Introduction To Organic Chemistry*

Covalent bonding is best described as the electrostatic attraction between

- A** oppositely charged ions
- B** positive ions and delocalised electrons
- C** a shared pair of electrons
- D** two nuclei and a shared pair of electrons

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4 - (WCH11/1(IAL)\_Summer\_2019\_Q4) - Structure, Bonding And Introduction To Organic Chemistry

Which is correct for tetrafluoromethane ( $\text{CF}_4$ )?

	Bonds	Molecule
<input type="checkbox"/> A	polar	polar
<input checked="" type="checkbox"/> B	non-polar	polar
<input type="checkbox"/> C	polar	non-polar
<input checked="" type="checkbox"/> D	non-polar	non-polar

5 - (WCH11/1(IAL)\_Summer\_2019\_Q5) - Structure, Bonding And Introduction To Organic Chemistry

Which pair of ions gives the strongest ionic bonding?

- A  $\text{Na}^+$  and  $\text{F}^-$
- B  $\text{K}^+$  and  $\text{Br}^-$
- C  $\text{Mg}^{2+}$  and  $\text{O}^{2-}$
- D  $\text{Ca}^{2+}$  and  $\text{S}^{2-}$

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# ANSWERS

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1 - (WCH11/1(IAL)\_Summer\_2019\_Q1) - *Structure, Bonding And Introduction To Organic Chemistry*

C

2 - (WCH11/1(IAL)\_Summer\_2019\_Q2) - *Structure, Bonding And Introduction To Organic Chemistry*

B

3 - (WCH11/1(IAL)\_Summer\_2019\_Q3) - *Structure, Bonding And Introduction To Organic Chemistry*

D

4 - (WCH11/1(IAL)\_Summer\_2019\_Q4) - *Structure, Bonding And Introduction To Organic Chemistry*

C

5 - (WCH11/1(IAL)\_Summer\_2019\_Q5) - *Structure, Bonding And Introduction To Organic Chemistry*

C

6 - (WCH11/1(IAL)\_Summer\_2019\_Q6) - *Structure, Bonding And Introduction To Organic Chemistry*

B

7 - (WCH11/1(IAL)\_Summer\_2019\_Q7) - *Structure, Bonding And Introduction To Organic Chemistry*

B

8 - (WCH11/1(IAL)\_Summer\_2019\_Q8) - *Structure, Bonding And Introduction To Organic Chemistry*

A

9 - (WCH11/1(IAL)\_Summer\_2019\_Q9) - *Structure, Bonding And Introduction To Organic Chemistry*

A

10 - (WCH11/1(IAL)\_Summer\_2019\_Q10) - *Structure, Bonding And Introduction To Organic Chemistry*

D