AQA - Bonding - A2 Chemistry P3

1.	June/	2020/	/Paper	_3/No.8
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Which has a bond angle of 109.5°?

[1 mark]

A C (diamond)

0

B C (graphite)

0

C NH₂⁻

0

D NH₃

0

2. June/ 2019/Paper_3/No.31

Which is not responsible for conduction of electricity?

[1 mark]

A The sodium ions in molten sodium chloride

- 0
- B The electrons between layers of carbon atoms in graphite
- 0

C The bonding electrons in a metal

0

D The lone pair electrons on water molecules

0

3.

June/ 2019/Pa	per_3/No.1`(1.3)		
0 1 . 3	Draw a diagram to show the shape of a molecule of $\rm H_2O$ Include any lone pairs of electrons.		
	State the H-O-H bond angle.		
	Explain this shape and bond angle.	[4 marks]	
	Diagram		
	Bond angle		
	Explanation		

4.	June/2021/Paper_3/No.10	
	Which has the electron configuration of a noble gas?	[1 mark]
		[1 mark]
	A H⁺	0
	B O ⁻	0
	C Se ²⁻	0
	D Zn ²⁺	0
5.	June/2021/Paper_3/No.13	
	Which species has a lone pair of electrons on the central atom?	[1 mark]
	A CO ₂	0
	B SO ₂	0
	C PCl ₆ -	0
	D SO ₄ ²⁻	0
6.	June/2021/Paper_3/No.14	
	In which substance do covalent bonds break when it melts?	[1 mark]
	A hexane	0
	д полино	
	B ice	

C iodine

D silicon dioxide

7.	June/2021/Paper_3/No.15 In which molecule are all the atoms in the same plane?	[1 mark]
	A CH₃CHO	0
	B CH ₃ NH ₂	0
	C C ₆ H ₅ Cl	0
	D C ₆ H ₅ CH ₃	0
8.	June/2021/Paper_3/No.16 Which molecule has a permanent dipole?	[1 mark]
	A BF ₃	0
	B NH ₃	0
	C SiCl ₄	0
	D SO ₃	0
9.	June/2021/Paper_3/No.22 Which substance contains delocalised electrons?	[1 mark]
	A cyclohexane	0
	B graphite	0
	C iodine	0
	D sodium chloride	0