

## 14.2 Further Aspects of Bonding

## **Question Paper**

Difficulty	Easy
Торіс	14.2 Further Aspects of Bonding
Section	14. Chemical Bonding & Structure (HL only)
Course	DP IB Chemistry

Time allowed:	10
Score:	/5
Percentage:	/100

A. Cyclohexane, C<sub>6</sub>H<sub>12</sub> B. Cyclohexene, C<sub>6</sub>H<sub>10</sub> C. Benzene, C<sub>6</sub>H<sub>6</sub> D. Cyclohexanol, C<sub>6</sub>H<sub>11</sub>OH **Question 2** Which structure does not show resonance? A. Carbonate ion, CO3<sup>2-</sup>

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Which compound contains delocalised electrons?

B. Hydroxide ion, OH-

**Question 1** 

C. Ethanoate ion, CH<sub>3</sub>COO<sup>-</sup>

D. Nitrate ion, NO3<sup>-</sup>

**Question 3** 

Which of the following cannot catalyse the decomposition of ozone, O<sub>3</sub>, to oxygen?

A. CI

B.NO

C.O

D.CCl<sub>4</sub>

[1mark]

[1mark]

[1mark]

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## **Question 4**

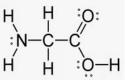
Which is the correct description of how an sp<sup>2</sup> orbital is formed?

- A. One s-orbital mixes with three p-orbitals
- B. Two s-orbitals mixes with two p-orbitals
- C. One s-orbital mixes with two p-orbitals
- D. One s-orbital mixes with one p-orbital

[1mark]

## Question 5

The structure of glycine is shown below:



What is the correct number of sp<sup>2</sup> and sp<sup>3</sup> hybridized atoms in glycine?

	Number of sp <sup>2</sup> hybridised atoms	Number of sp <sup>3</sup> hybridised atoms
Α.	8	2
в.	2	8
C.	3	2
D.	2	3

[1mark]