

## 20.3 Stereoisomerism

# **Question Paper**

Course	DP IB Chemistry
Section	20. Organic Chemistry (HL only)
Topic	20.3 Stereoisomerism
Difficulty	Easy

Time allowed: 10

Score: /5

Percentage: /100



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#### Question 1

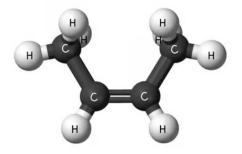
Which molecule contains a chiral carbon?

- A. 1-chloro-2-methylbutane
- B. 2-methylpropane
- C. Butane
- D. 2-chloropropane

[1 mark]

### Question 2

What is name of this compound applying IUPAC rules?



- A. Trans-pent-2-ene
- B. Trans-but-2-ene
- C. But-1-ene
- D. Cis-but-2-ene

[1 mark]

#### Question 3

Which compound can exist as conformational isomers?

- A. CH<sub>3</sub>CH<sub>2</sub>CH<sub>2</sub>OH
- B. CH<sub>3</sub>CHOHCH<sub>3</sub>
- C. CH<sub>3</sub>CHOHCH<sub>2</sub>CH<sub>3</sub>
- D. CH<sub>2</sub>CHCH<sub>3</sub>

[1 mark]

### Question 4

Which statement about isomerism is correct?

- A. A racemic mixture is optically active
- B. Pent-1-ene exhibits stereoisomerism
- C. 1-bromopropane has two optical isomers
- D. 2-amino-3-methylpentane is a diastereomer

[1 mark]

#### Question 5

Which pair are cis and trans isomers?

Α.

В.

C.

D.

$$C = C$$

$$B_r$$
  $C = C$   $B_r$ 

[1 mark]



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