

# 20.3 Stereoisomerism

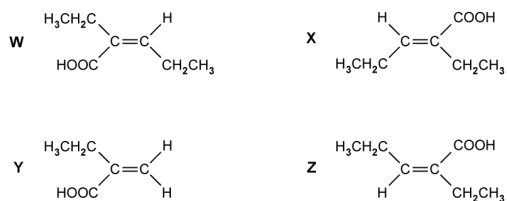
## Question Paper

Course	DIPB Chemistry
Section	20. Organic Chemistry (HL only)
Topic	20.3 Stereoisomerism
Difficulty	Medium

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

### Question 1

Which two molecules are cis-trans isomers of each other?



- A. X and Z
- B. X and Y
- C. W and Y
- D. W and Z

[1 mark]

### Question 2

What is this molecule called?



- A. Z-2-bromo-1-chloro-2-fluoroethene
- B. E-2-bromo-1-chloro-2-fluoroethene
- C. Z-1-bromo-2-chloro-1-fluoroethene
- D. E-1-bromo-2-chloro-1-fluoroethene

[1 mark]

### Question 3

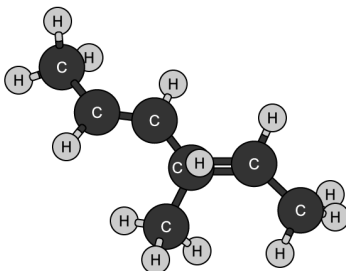
Which molecule has optical isomers?

- A. 2-bromobutane
- B. 1,3-dibromopropane
- C. 2-chloro-2-methylpropane
- D. 3-bromopentane

[1 mark]

### Question 4

What is the name of this molecule?



- A. *cis*-3-methyl-3-hexene
- B. *trans*-4-methyl-4-hexene
- C. *cis*-3-methyl-2-hexene
- D. *trans*-3-methyl-2-hexene

[1 mark]

### Question 5

Which is true about stereoisomerism?

- A. But-1-ene has *E/Z* isomers
- B. Butan-2-ol has two enantiomers
- C. But-1-ene and but-2-ene are *cis-trans* isomers
- D. Butan-1-ol and butan-2-ol are optical isomers

[1 mark]