

20.3 Stereoisomerism

Question Paper

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

Time allowed: 10

Score: /5

Percentage: /100

Question 1

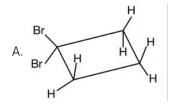
How many five ringed membered isomers are there of dimethyl cyclopentane?

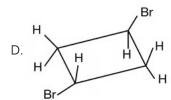
- A. 3
- B. 4
- C.5
- D. 6

[1 mark]

Question 2

Which structure is the correct cis trans isomer of trans-1,2-dibromocyclobutane?







 $Head to \underline{savemyexams.co.uk} for more a we some resources\\$

[1 mark]

Question 3

Which molecule has a chiral centre?

- A. CH₃OCH₂CH₃
- B. CH₃CH₂CHO
- C. CH₃CH(NH₂)CH₃
- D. CH₃CH(OH)CH₂CH₃

[1 mark]

Question 4

Which of the following statements is correct?

- I. 2-bromo-1-chloro-1-fluoropropene can not be classed as a cis or trans isomer
- II. A polarimeter measures the configuration of a molecule as R or S
- III. Conformational isomers occur due to the free rotation about a single σ -bond
 - A. I and II only
 - B. I and III only
 - C. II and III only
 - D. I, II and III

[1 mark]

Question 5

Arthrinin-F is a compound isolated from fungus.

What is the correct number of chiral carbons in the structure?

- A. 2
- B. 3
- C.4
- D. 5

[1 mark]