Unit 7 - Week 5

Assignment 5

The due date for submitting this assignment has passed.
As per our records you have not submitted this assignment.

Due on 2019-09-04, 23:59 IST.

1) The boat conformation of cyclohexane is one of the various conformers — 1 point

a. True
b. False

a.
b.

No, the answer is incorrect.
Score: 0
Accepted Answers:
b.

2) The boat conformation of cyclohexane has — 1 point

a) 2 eclipsed butane interactions
b) 2 gauche butane interactions
c) 6 gauche butane interactions
d) 6 eclipsed butane interactions

a)
b)
c)
d)

No, the answer is incorrect.
Score: 0
Accepted Answers:
a)

3) The chair conformation of cyclohexane has — 1 point

a) 4 gauche butane interactions
b) 6 gauche butane interactions
c) 2 eclipsed butane interactions
d) The butane units are all present anti conformations

a)
b)
c)
d)

No, the answer is incorrect.
Score: 0
Accepted Answers:
b)

4) Cyclopropane suffers from — 1 point

a) Only angle strain
b) Only torsional strain
c) Both angle strain and torsional strain

a)
b)
c)

No, the answer is incorrect.
Score: 0
Accepted Answers:
c)

5) — 1 point

The number of extra gauche butane interactions in the following molecule as compared to two cyclohexane chair forms is

a. 2
b. 3
c. 4

a.
b.
c.

No, the answer is incorrect.
Score: 0
Accepted Answers:
b.

6) The following two molecules are — 1 point

a. Mirror images
b. Identical
c. Diastereomers

a.
b.
c.

No, the answer is incorrect.
Score: 0
Accepted Answers:
a.

7) Which structure is same as the following? — 1 point

a)
b)
c)

a)
b)
c)

No, the answer is incorrect.
Score: 0
Accepted Answers:
a)

8) — 1 point

Which statement regarding the preferred conformations of cis and trans 9,10-dimethyl dacalin is true?

a) Both the conformations have equal energy
b) Both the molecules exist as resolvable dl-pair
c) Cis isomer has more energy than the trans isomer
d) Cis isomer is more stable than the trans isomer

a)
b)
c)
d)

No, the answer is incorrect.
Score: 0
Accepted Answers:
a)

9) — 1 point

The Baeyer's angle strain in planar cyclohexane is (assume the angle between bonds in a sp^3 carbon $109^o28'$)

a) $+5^o16'$
b) $-5^o16'$
c) $-10^o32'$
d) $+10^o32'$

a)
b)
c)
d)

No, the answer is incorrect.
Score: 0
Accepted Answers:
b)

10) The relationship between the flipped forms of trans 1,3-dimethyl cyclohexane is — 1 point

a) They are identical
b) They are enantiomer
c) They are conformational diastereomers

a)
b)
c)

No, the answer is incorrect.
Score: 0
Accepted Answers:
a)

11) The conformation having maximum energy during flipping of cyclohexane is — 1 point

a)

b)

c)

a)
b)
c)

No, the answer is incorrect.
Score: 0
Accepted Answers:
c)

12) *Cis*-decalin exists as a — 1 point

a) non-resolvable dl-pair
b) as a resolvable dl pair
c) as a mixture of conformational diastereomers

a)
b)
c)

No, the answer is incorrect.
Score: 0
Accepted Answers:
a)