

[Home](#) / [My courses](#) / [Organic & Inorganic Chemistry Theory \(CY11003\) Section 11-17 & Backlog – Spring 2022](#) / [Topic 1](#)
/ [Organic Class Test](#)

Started on Wednesday, 16 March 2022, 9:58 AM

State Finished

Completed on Wednesday, 16 March 2022, 10:49 AM

Time taken 51 mins 3 secs

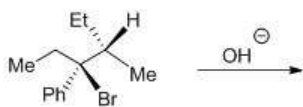
Grade 20.00 out of 25.00 (80%)

Question 1

Correct

Mark 1.00 out of 1.00

Find out the major product in the given below reaction.



- ☐ a.
- ☒ b.
- ☐ c.
- ☐ d.

✓

Your answer is correct.

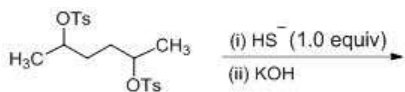
The correct answer is:

Question 2

Correct

Mark 1.00 out of 1.00

Find out the major product in the given reaction below.



- ☐ a.
- ☐ b.
- ☒ c.
- ☐ d.



Your answer is correct.

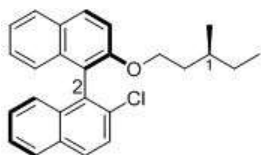
The correct answer is:

Question 3

Correct

Mark 2.00 out of 2.00

Determine the stereochemistry at positions 1&2 of the chiral molecule.



- ☐ a. 1R,2R
- ☐ b. 1R,2S
- ☐ c. 1S,2S
- ☒ d. 1S,2R



Your answer is correct.

The correct answer is: 1S,2R

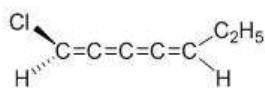
Question 4

Correct

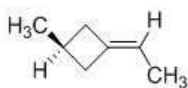
Mark 1.00 out of 1.00

Which of the following compounds are optically active?

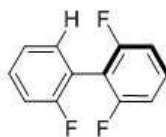
i)



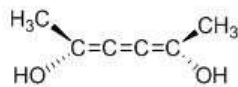
ii)



iii)



iv)



- ☒ a. i, ii
- ☐ b. i, ii, iii
- ☐ c. ii, iii
- ☐ d. i, iv



Your answer is correct.

The correct answer is: i, ii

Question 5

Correct

Mark 2.00 out of 2.00

Calculate the energy difference between the most stable conformation of trans-1,3-dimethylcyclohexane and cis-1,3-dimethylcyclohexane.

- ☒ a. 1.8 kcal/mol
- ☐ b. 0.9 kcal/mol
- ☐ c. 3.6 kcal/mol
- ☐ d. 5.4 kcal/mol



Your answer is correct.

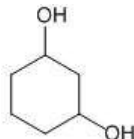
The correct answer is: 1.8 kcal/mol

Question 6

Correct

Mark 1.00 out of 1.00

Most stable form of the given compound is



- ☐ a. a,e-trans
- ☒ b. a,a-cis
- ☐ c. e,e-cis
- ☐ d. e,a-trans



Your answer is correct.

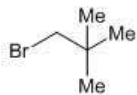
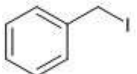


The correct answer is: a,a-cis

Question **7**

Correct

Mark 1.00 out of 1.00

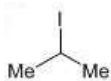
Which of the following compound will participate in E2 elimination in presence of base?

- ☐ a. 
- ☐ b. 
- ☐ c. 
- ☒ d. 



Your answer is correct.

The correct answer is:

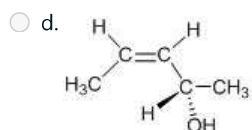
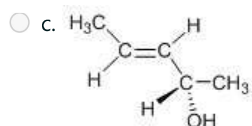
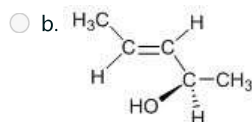
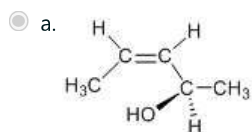


Question 8

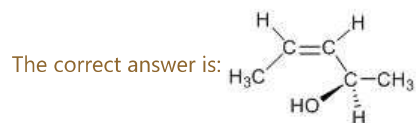
Correct

Mark 1.00 out of 1.00

Which of the following molecule have (2R, 3Z) configuration.



Your answer is correct.

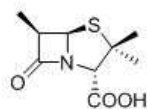


Question 9

Correct

Mark 1.00 out of 1.00

How many chiral centers are present in the following molecules?



- ☐ a. 5
- ☐ b. 2
- ☐ c. 3
- ☒ d. 4



Your answer is correct.

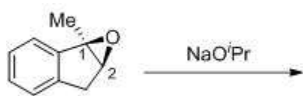
The correct answer is: 4

Question 10

Incorrect

Mark 0.00 out of 2.00

What will be the product in the following substitution reaction?



- ☐ a. (1R,2S)-2-isopropoxy-1-methyl-2,3-dihydro-1H-inden-1-ol
- ☐ b. (1S,2R)-2-isopropoxy-1-methyl-2,3-dihydro-1H-inden-1-ol
- ☐ c. (1R,2R)-2-isopropoxy-1-methyl-2,3-dihydro-1H-inden-1-ol
- ☒ d. (1S,2S)-2-isopropoxy-1-methyl-2,3-dihydro-1H-inden-1-ol



Your answer is incorrect. Q&A has no Problem

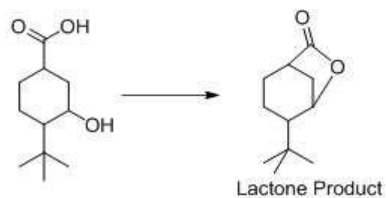
The correct answer is: (1R,2R)-2-isopropoxy-1-methyl-2,3-dihydro-1H-inden-1-ol

Question 11

Correct

Mark 1.00 out of 1.00

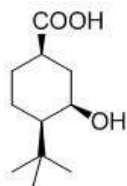
Which stereoisomer will undergo faster lactonization



- ☐ a.
- ☒ b.
- ☐ c.
- ☐ d.

Your answer is correct.

The correct answer is:

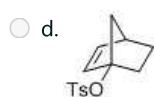
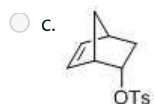
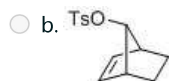
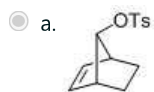


Question 12

Correct

Mark 1.00 out of 1.00

Identify the fastest reacting molecule under S_N1 conditions with acetic acid



Your answer is correct.

The correct answer is:

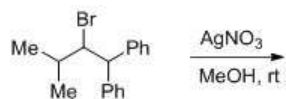


Question 13

Correct

Mark 1.00 out of 1.00

The right product formed in the following reaction is



- ☒ a.
- ☐ b.
- ☐ c.
- ☐ d.



Your answer is correct.

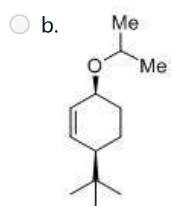
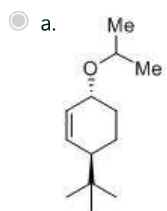
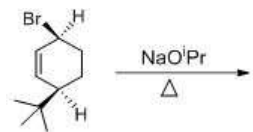
The correct answer is:

Question 14

Correct

Mark 1.00 out of 1.00

Write down the product(s) of the following reaction.

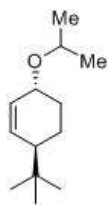


☐ c. Both (a) and (b)

☐ d. No reaction

Your answer is correct.

The correct answer is:

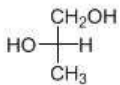
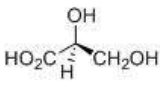
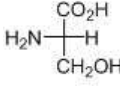
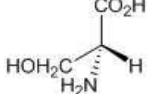


Question 15

Correct

Mark 2.00 out of 2.00

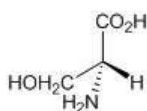
Which of the following has the (R) configuration?

- ☐ a. 
- ☐ b. 
- ☐ c. 
- ☒ d. 



Your answer is correct.

The correct answer is:

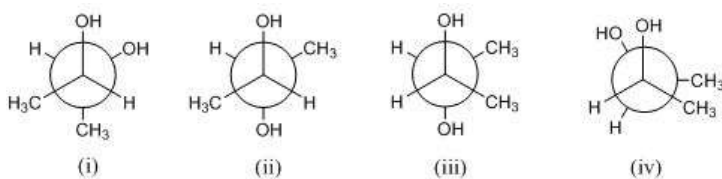


Question 16

Correct

Mark 1.00 out of 1.00

Arrange the following conformations of butane-2,3-diol most stable to least stable.



- ☒ a. i > ii > iii > iv
- ☐ b. ii > iii > iv > i
- ☐ c. ii > iv > iii > i
- ☐ d. iii > ii > iv > i



Your answer is correct.

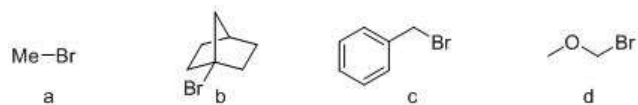
The correct answer is: i > ii > iii > iv

Question 17

Incorrect

Mark 0.00 out of 1.00

Which of the following halides participate in S_N1 reaction?



- ☐ b, c
- ☐ c, d
- ☒ Only a
- ☐ Only b

✗

Your answer is incorrect. Q&A has no Problem

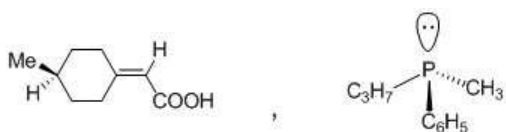
The correct answer is: c, d

Question 18

Incorrect

Mark 0.00 out of 2.00

Determine the R and S configuration of the below compounds.



- ☐ a. S, S
- ☐ b. R, R
- ☒ c. S, R
- ☐ d. R, S

✗

Your answer is incorrect. Q&A has no Problem

The correct answer is: S, S

Question 19

Correct

Mark 1.00 out of 1.00

Determine the number of gauche-butane interactions in two interconverting chair conformers of cis-1,2-dimethylcyclohexane

- ☐ a. 3 and 0
- ☒ b. 3 and 3
- ☐ c. 2 and 2
- ☐ d. 3 and 2



Your answer is correct.

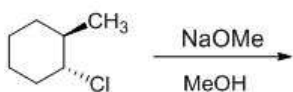
The correct answer is: 3 and 3

Question 20

Correct

Mark 1.00 out of 1.00

Find out the product for the given below reaction.



- ☐ a.
- ☐ b.
- ☒ c.
- ☐ d.



Your answer is correct.

The correct answer is:

Jump to...

