

CHM 234, Spring 2018

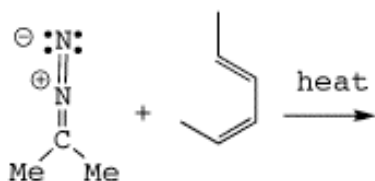
QUIZ #8

(hit the RETURN Button to return to the Main Quiz Page)

QUESTION 1

MC40a

Which describes the ALLOWED product of this reaction?

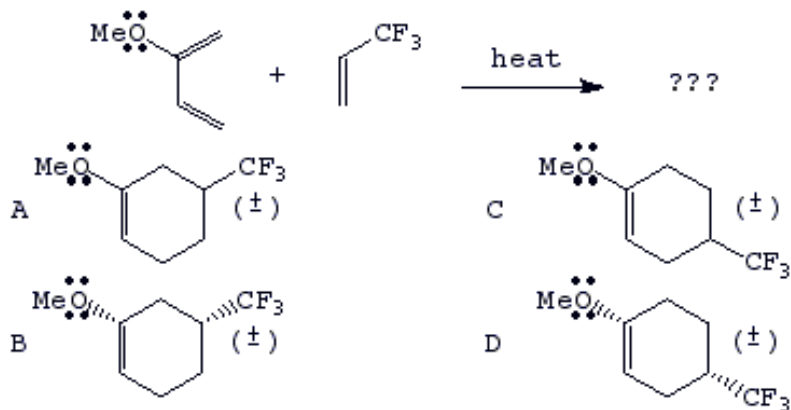


- A Hückel transition state, suprafacial/suprafacial reaction
 - B Hückel transition state, suprafacial/antarafacial reaction
 - C Möbius transition state, suprafacial/suprafacial reaction
 - D Möbius transition state, suprafacial/antarafacial reaction
-

QUESTION 2

MC30u

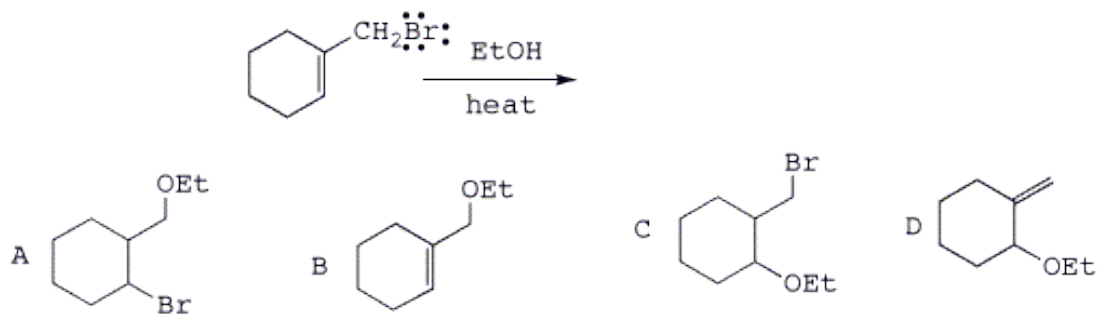
Which *correctly and completely* describes the product of the following Diels-Alder reaction?



QUESTION 3

MC30g

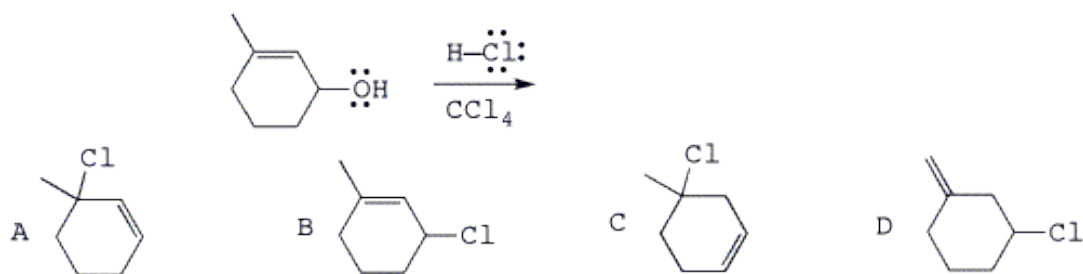
Give the product of the following reaction under THERMODYNAMIC control conditions (high temperature)



QUESTION 4

MC30h

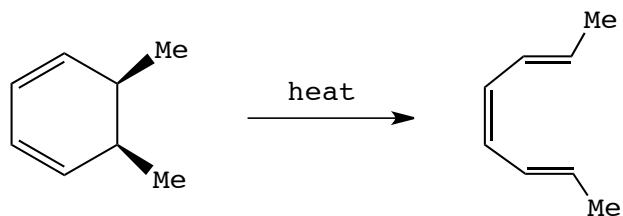
Give the product of the following reaction under THERMODYNAMICALLY controlled conditions (high temperature)



QUESTION 5

MC40d

Which best describes the following reaction?

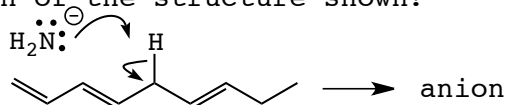


- A Conrotatory
 - B Disrotatory
 - C Neither Conrotatory or Disrotatory
 - D Not Enough Information To Tell
-

QUESTION 6

MC30w

How many VERTICAL nodes do the **H**ighest **O**ccupied and **L**owest **U**noccupied π -**M**olecular **O**rbitals of the anion formed upon deprotonation of the structure shown?

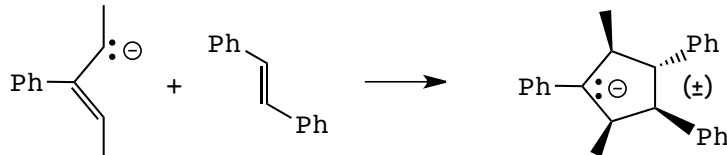


- A) HOMO = 0 and LUMO = 1
 - B) HOMO = 1 and LUMO = 2
 - C) HOMO = 2 and LUMO = 3
 - D) HOMO = 3 and LUMO = 4
-

QUESTION 7

MC40o

Which best describes the following reaction?

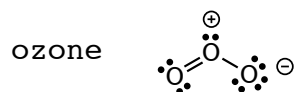


- A suprafacial on the anion and suprafacial on the alkene
 - B suprafacial on the anion and antarafacial on the alkene
 - C antafacial on the anion and suprafacial on the alkene
 - D antarafacial on the anion and antarafacial on the alkene
-

QUESTION 8

MC30aa

Which answer describes the number of VERTICAL nodes for the HOMO and the LUMO of ozone?



- A) HOMO = 0 and LUMO = 1
 - B) HOMO = 1 and LUMO = 2
 - C) HOMO = 2 and LUMO = 3
 - D) HOMO = 3 and LUMO = 4
-

QUESTION 9

There are NO INCORRECT answers to this question, ALL answers to this question will be considered correct for grading purposes

I believe I can earn an A grade in organic chemistry

- A Never
- B Rarely
- C Sometimes
- D Often
- E Always

QUESTION 10

There are NO INCORRECT answers to this question, ALL answers to this question will be considered correct for grading purposes

I am confident that I will do well on organic chemistry tests

- A Never
- B Rarely
- C Sometimes
- D Often
- E Always

QUESTION 11

There are NO INCORRECT answers to this question, ALL answers to this question will be considered correct for grading purposes

I believe that I can master organic chemistry knowledge and skills

- A Never
- B Rarely
- C Sometimes
- D Often
- E Always

QUESTION 12

There are NO INCORRECT answers to this question, ALL answers to this question will be considered correct for grading purposes

I'm sure I can understand organic chemistry

- A Never
- B Rarely
- C Sometimes
- D Often
- E Always