

9. Which statement is TRUE about the most stable conformation of the molecule?



- (A) the 1-bromo and chloro groups are both equatorial and the bromo group is axial  
 (B) the bromo and chloro groups are both equatorial and the 1-bromo group is axial  
 (C) the 1-bromo and chloro groups are both equatorial and the chloro group is axial  
 (D) all three groups are equatorial

10. Which Newman projection depicts the lowest energy conformation of (R)-3-methylbutane?

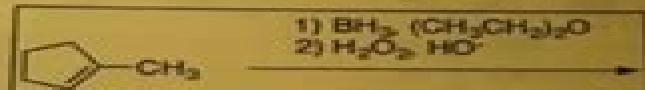


11. Which are aromatic?



- (A) I and III  
 (B) II and IV  
 (C) II and III  
 (D) I and II

12. What is the result of hydroboration of 1-methylcyclopentene, followed by oxidation?



- (A) a pair of enantiomers  
 (B) a pair of diastereomers  
 (C) a meso compound  
 (D) two achiral compounds

13. Which molecule will have the smallest HOMO-LUMO energy gap?



14. Which act as a Bronsted base?



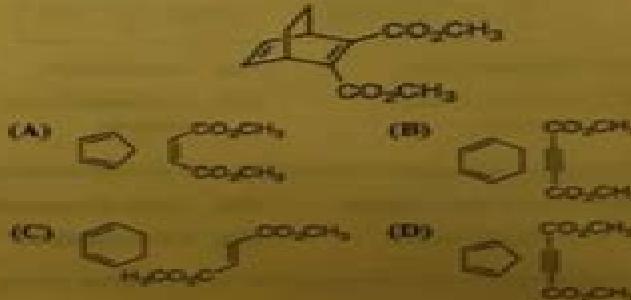
- (A) I  
 (B) II  
 (C) I and IV  
 (D) II and III

15. What is the enantiomeric excess (ee) of the product mixture in this reaction?



- (A) 26% (B) 37% (C) 63% (D) 100%

16. Which reactants should be used to form the product?



17. Which compound will be protonated to the greatest extent in  $1.0 \times 10^{-3}$  M aqueous  $\text{HCl}$ ?



# Acs Organic Chemistry Exam Answers 2013

**A. J. Showler,T. A. Brown**

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