

Organic Chemistry Exam Questions List

1. Which of the following transitions is the highest energy transition?
 - n to s*
 - n to p*
 - s to s* (Answer)
 - p to p*
2. Which of the following compounds would have the highest boiling point?
 - CH₃CH₂CH₂CH₃
 - CH₃NH₂
 - CH₃OH (Answer)
 - CH₂F₂
3. What is the total number of sigma bonds found in the following compound?
CH₃-CH=C=CH-C=C-H
 - 8
 - 10
 - 11 (Answer)
 - 15
4. How many dichlorinated isomers can be formed by the halogenation of CH₃CH₂CH₂CH₃ with Cl₂ in the presence of light?
 - 2
 - 3
 - 5
 - 6 (Answer)
5. Which of the following would not be a reasonable nucleophile in a S_N2 reaction?
 - NH₃
 - NC⁻
 - H₂O (Answer)
 - HO⁻
6. Which of the following halides will react most rapidly in a S_N2 reaction?
 - CH₃F
 - CH₃Cl
 - CH₃Br
 - CH₃I (Answer)