Biochem HW Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Chapter 15: Stereocenters:R,S designation Block\_\_\_\_\_\_\_\_\_\_\_\_ #\_\_\_\_\_\_\_\_\_\_\_

1. Identify all of the asymmetric centers in the following compounds and then indicate how many stereoisomers are possible (2n).





1. Rank the following groups in order of decreasing priority (1 = highest, 4 = lowest).
2. –F, -NH2, -CH3, -OH
3. –NH2, -CH2NH2, -CH3, -CH2NHCH3
4. –COOH, -CH2OH, -H, -CHO
5. In the R,S system, which of the following groups has highest priority?

a. alkyl b. amino c. hydroxyl d. thiol

1. Which of these are R and which are S?

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1. What are the R/S configurations at the following stereocenters?

