

Chemistry 351

Quiz #7

October 24, 2018

Name: _____

Student Number: _____

Section Number: _____

TA: _____

INSTRUCTIONS:

This quiz consists of 6 questions on 3 pages. Please make certain that your quiz is complete.

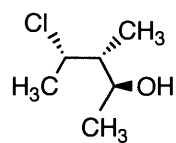
Write your name, student number, and section number **on both the quiz and answer sheet. Be certain to bubble in your PID digits on the answer sheet. The absence of any of these identification items will result in the deduction of 2 points from your score.**

Questions 1-5 are each worth 1 point. Question 6 is worth 5 points.

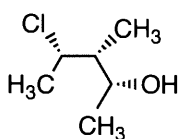
Write your answers to Questions 1-5 on the enclosed answer sheet. **Write your answers to Question 6 in the space provided on this quiz.**

When you complete the quiz, insert your answer sheet into your quiz and then hand both in on the bench in front of the lecture hall in the spot indicated by your section number.

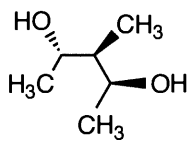
Questions 1-2 are to be answered from the following possibilities:



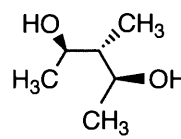
1.



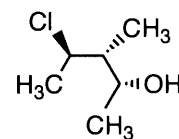
2.



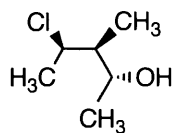
3.



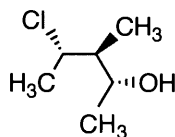
4.



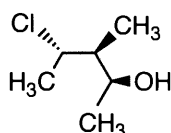
5.



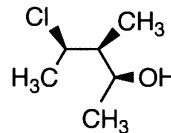
6.



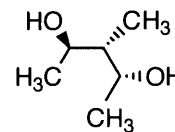
7.



8.

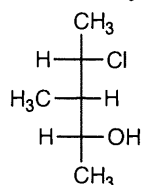


9.



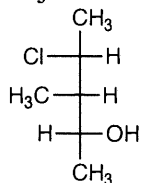
10.

1. Identify the molecule that corresponds to the following Fischer projection formula:



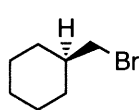
- a. 1 b. 2 c. 3 d. 4 e. 5
f. 6 g. 7 h. 8 i. 9 j. 10

2. Identify the product formed when the molecule corresponding to the following Fischer Projection formula is reacted with sodium hydroxide.

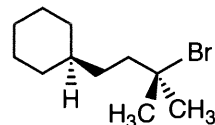


- a. 1 b. 2 c. 3 d. 4 e. 5
f. 6 g. 7 h. 8 i. 9 j. 10

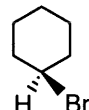
3. Which of the following bromides that react by an S_N2 mechanism will react the MOST SLOWLY by an S_N2 mechanism:



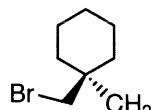
A.



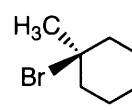
B.



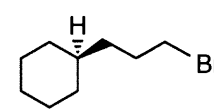
C.



D.



E.

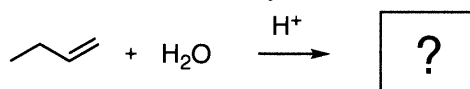


F.

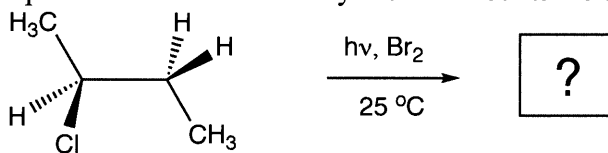
Question 4 and Question 5 are to be answered from the following possibilities:

<p>A.</p>	<p>B.</p>	<p>C.</p>	<p>D.</p>	<p>E.</p>
<p>F.</p>	<p>G.</p>	<p>H.</p>	<p>I.</p>	<p>J.</p>

4. Identify the product or products and associated yields formed in the following reaction:

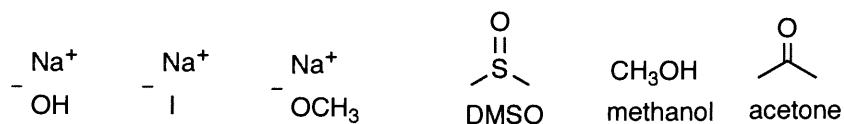


5. Identify the product or products and associated yields formed in the following reaction:



6. For the conversion of Molecule A into Molecule B via Molecule C:

a. 2 pts. In the labeled boxes, provide the reagent and the solvent required for conversion of Molecule A into Molecule B and a different reagent and a different solvent for the conversion of Molecule B into Molecule C. Select from the following reagents and solvents:



b. 1 pt. Add the missing atoms to provide the structure of Molecule B.

c. 1 pt. Insert all of the arrows required to show bond formation and bond breakage in the conversion of Molecule A into Molecule B.

d. 1 pt. Insert all of the arrows required to show bond formation and bond breakage in the conversion of Molecule B into Molecule C.

