Chemistry 2541, Fall 2014 Quiz 5

(30 points)

Important notes:

- Please use the provided Scantron form for your answers; you can keep the sheet with the questions and can use it as scratch paper
- Do not forget to write your name on the Scantron form
- You will not receive credit for unmarked answers or for more than one mark on answer line
- Your scores will be posted on eGradebook; graded Scantron forms will not be returned to students.

Questions 1-10: Please mark the appropriate box on the front of the Scantron form (3 pts each).

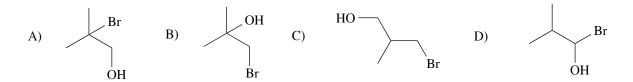
1. Which of the following is the most stable carbocation?

2. What is the structure of the reaction **intermediate** for the reaction in the box?

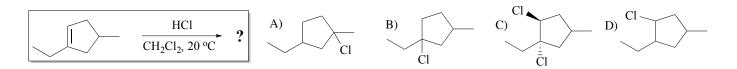
3. What is the product of **1,2-shift of the methyl** group for the reaction in the box?

4. Which one of the following four schemes (**A-D**) represents a **step** in the **mechanism** of the reaction in the box?

5. Which of the following is the major product of the reaction of 2-methylpropene with Br_2/H_2O ?



6. What is the **main product** of the reaction shown in the box?



7. Which of the following alkenes yields the compound shown in the box upon treatment with bromine?

8. What is the **main product** of the reaction shown in the box?

9. Which of the following depicts the major product of the acid catalyzed **hydration** of 1-methyl cyclohexene?

10. Which of the following is an important intermediate of the reaction shown in the box?