Chemistry 2541, Fall 2015 Quiz 6

(30 points)

Key-

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. What is the IUPAC name for the compound shown in the box?



2. What is the IUPAC name for the compound in the box?



3. What is the main product of the sequence of reactions shown in the box?

$$CH_{3}C \equiv CH \xrightarrow{NaNH_{2}} CH_{3}CH_{2}Er \xrightarrow{1 \text{ mol } Br_{2}} (CH_{2}Cl_{2}) \xrightarrow{(CH_{2}Cl_{2})} (C) (E)-2,3-\text{dibromo-2-pentene} B) 2,3-\text{dibromopentane} (C) (E)-2,3-\text{dibromo-2-pentene} D) 3,3-\text{dibromopentane} (C) (E)-2,3-\text{dibromo-2-pentene} (C) (E)-2,3-\text{dibromopentane} (C) (E)-2,3-\text{dibromo-2-pentene} (C) (E)-2,3-\text{dibromopentane} (C) (E)-2,3-\text{$$

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





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



6. What is the common name of trichloromethane?

A) methylene chloride B) vinyl chloride C)

C) carbon trichloride



Na WH3

7. Which is the most stable radical?



8. Which sequence of reagents can be used for the reaction shown in the box?





10. Which **reactant** is missing in the reaction shown in the box?

