## Contents

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## Week 10

## Friday, November 30 - Quiz 21

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



2. What mechanism is most likely for the following?

- $\triangleright S_N 1$
- D SN2
- ⊳ F1
- ⊳ E2
- 3. Which mechanism is most likely for the following?

- $\triangleright S_N 1$
- $\triangleright S_N 2$
- ▶ E1
- ⊳ F2

4. What will the major product be from the following?

5. What is the major product from the following?

6. What is the major product from the following?

7. What is the major product from the following?

- 8 What mechanism is most likely under the following conditions?
  - 3° alkyl halide: bulky weak base: polar protic solvent: heat
    - $\triangleright S_N 1$
    - ▶ E1
    - ⊳ E2
    - $\triangleright S_N 2$

- 9. What mechanism is most likely under the following conditions?
  - 3° alkyl halide; small unhindered weak base; polar protic solvent; room temperature
    - ▶ E2
    - ▶ E1
    - $\triangleright S_N 2$
    - $\triangleright S_N 1$
- 10. What mechanism is most likely under the following conditions?
  - 3° alkyl halide; strong base; polar solvent; high temperature
    - ▶ E1
    - $\triangleright S_{N}1$
    - ⊳ E2
    - D SN2
- 11. What mechanism is most likely under the following conditions?
  - 1° alkyl halide; small unhindered nucleophile; polar solvent; room temperature
    - $\triangleright S_N 1$
    - $\triangleright S_N 2$
    - ⊳ E2
    - ⊳ F1