Assignment 11

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment.

Due on 2021-04-07, 23:59 IST.

1. Which of the following molecule would not undergo Hofmann rearrangement?
   - CH2CONH2
   - CH3CONHCH3
   - CH2CONHCH2
   - CH3CONHCH3

   Accepted Answer:
   CH2CONHCH2

2. What are the reactants for the Hofmann rearrangement?
   - Mg with strong base
   - Strong acid like H2SO4
   - Mg with strong acid
   - Mg with Na

   Accepted Answer:
   Mg with strong base

3. What is the name of the following rearrangement?
   CH3COCl → CH3COOH

   Accepted Answer:
   Curtius

4. Which of the following rearrangement does not involve migration of the alkyl group?
   - Lossen
   - Curtius
   - Beckmann
   - Hofmann

   Accepted Answer:
   Lossen

5. Which is the rate determining step in Beckmann rearrangement?
   - Hydrolysis
   - Migration of alkyl group with respect to leaving group
   - Ionisation step
   - Addition of water to the carbocation

   Accepted Answer:
   Ionisation step

6. Which of the following statement is not correct for Beckmann rearrangement?
   - The alkyl group with respect to the leaving group migrates with inversion of configuration
   - The rearrangement involves carbonation formation
   - The rearrangement is intramolecular in nature
   - It is stereospecific in nature

   Accepted Answer:
   The alkyl group with respect to the leaving group migrates with inversion of configuration

7. Which of the following rearrangement contains a cyclic ester?
   - Lossen
   - Curtius
   - Beckmann
   - Hofmann

   Accepted Answer:
   Curtius

8. Which solvent should be used in Claisen rearrangement?
   - Polar protic
   - Aprotic
   - Acetone
   - Inert solvent

   Accepted Answer:
   Inert solvent

9. Which of the following statement is not correct about Pechmann rearrangement?
   - It occurs under UV light
   - Ammonium Ag3 is used as a catalyst
   - The peps product is thermodynamically more stable
   - It produces mixtures of allylic aldehydes

   Accepted Answer:
   It occurs under UV light

10. Which rearrangement will lead to the following reaction?
    - Pechmann
    - Claisen
    - Curtius
    - Beckmann

   Accepted Answer:
   Pechmann