CHEM 2325 Exam 1 Name:

September 21, 2021 UTEP ID #:

If required, the Exam 1 retake homework will be due Friday, September 24, before noon through <http://organic.utep.edu/quiz>, no exceptions or excuses. Put your name on these sheets so that you can recover your class answers. Expect an email from me. ***Put your name and ID on your scantron and exam sheets.***

Assume any necessary workup at the end or between the steps of the following reaction(s).

1. What is the major product of the following reaction? Chiral products are racemic. 

a.  b.  c.  d.  e. not a.-d.

1. What is the kinetic product of the following reaction if each reagent is present in equal amounts? Hint: The order of the halogens in the periodic table from top to bottom is F, Cl, Br, I. 

a.  b.  c.  d.  e. not a.-d.

What is the major product of the following reactions? Answers may be repeated.

1.  a.  b. 
2.  c.  d.  e. not a.-d.
3. What is the major product of the following reaction? 

a.  b.  c.  d.  e. not a.-d.

1. Which compound will give off the most heat when hydrogenated?

a.  b.  c.  d.  e. 

1. What is the correct name of the following compound? 
2. (*E*)-5-pentylnon-3-en-6-yne b. (*Z*)-5-pentylnon-6-en-3-yne

c. (*Z*)-5-pentylnon-3-yn-6-ene d. (*Z*)-5-but-2-enyldec-3-yne e. not a.-d.

1. What is the major product of the following reaction? 

a.  b.  c.  d.  e. not a.-d.

1. What is the major product of the following reaction? Chiral products are racemic. 

a.  b.  c.  d.  e. not a.-d.

1. What is the major product of the following reaction? Chiral products are racemic. 
2.  b.  c.  d.  e. not a.-d.

What is the major product of the following reactions? Chiral products are racemic. Answers may be repeated.

1.  a.  b. 
2.  c.  d.  e. not a.-d.

What is the major product of the following reactions? Answers may be repeated.

1.  a.  b. 
2.  c. d.  e. not a.-d.

What is the major product of the following reactions? Chiral products are racemic. Answers may be repeated.

1.  a.  b. 
2.  c.  d.  e. not a.-d.

What is the major product of the following reactions? Assume only one equivalent of HBr. Answers may be repeated.

1.  a.  b. 
2.  c.  d.  e. not a.-d.

What is the major product of the following reactions? Chiral products are racemic. Answers may be repeated.

1.  a.  b. 
2.  c.  d.  e. not a.-d.