CHEM 2325 Exam 1 Name:

July 19, 2023 UTEP ID #:

If required, the Exam 1 retake homework will be due Friday, July 21, before 5 pm 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 this evening.

1.-5. Match each reaction sequence to a major product on the right. Answers may be repeated. Assume any necessary workup. The symbol means wedge or slash.

1.  a. 
2.  b. 
3.  c. 
4.  d. 
5.  e. not a.-d.

6.-9. Match each set of reagents reacting with to a major product on the right. Answers may be repeated.

1. NaOH, heat a. 
2. , heat b. 
3. H2O, heat c. 
4. H2O ­ d.  e. not a.-d.
5. What is the product of the reaction of a primary alcohol with PCC in CH2Cl2?

a.  b.  c.  d.  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 largest product (most carbons) of reacting the correct answer of question 11 with ozone and zinc?

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

1. What is the systematic name of the following compound?

a. (*S*)-3-ethylpent-1-en-4-yne b. (*S*)-3-ethylpent-4-en-1-yne

c. (*R*)-3-ethylpent-1-en-4-yne d. (*R*)-3-ethylpent-4-en-1-yne e. not a.-d.

14.-18. Match each reaction sequence to a major product on the right. Answers may be repeated. Assume any necessary workup. Chiral products are racemic.

1.  a. 
2.  b. 
3.  c. 
4.  d. 
5.  e. not a.-d.
6. What is the product of the following reaction? Assume any necessary workup. 

Chiral products are racemic.

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

1. What is the product of the following reaction? Assume any necessary workup.

Chiral products are racemic.

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