CHEM 2324 Exam 3 Name:

July 5, 2023 UTEP ID #:

If required, the exam retake homework will be due Friday, July 7, 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.

1.-5. Match each carbon centered part of the following molecule to the best functional group name on the right. Answers may be repeated.



 1. 2. 3. 4. 5.

a. cyanohydrin b. enamine c. imine d. oxime e. not a.-d.

6.-10. Match each set of reagents to a product to the right. Answers may be repeated. Assume any necessary workup.

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

11.-15. Match each carbon centered part of the following molecule to the best functional group name on the right. Answers may be repeated.



 11. 12. 13. 14. 15.

 a. acetal b. anhydride c. enol ether d. ketal e. not a.-d.

16.-20. Match each set of reagents to a product to the right. Answers may be repeated. Assume any necessary workup.

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

21.-25. Match each carbon centered part of the following molecule to the best functional group name on the right. Answers may be repeated.



21. 22. 23. 24. 25.

a. amine b. carboxylate c. hydrazone d. nitrile e. not a.-d.

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



a.  b. 

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