

BLITZ: Ch 29 Organic

Form T-Z

Name _____ Period _____

This is a Take Home Exam. You may use your notes but you may NOT use help from human beings.

EXPLAIN IN COMPLETE SENTENCES AND GIVE EXAMPLES:

You MUST HAND WRITE THIS EXAM!! NO TYPED PAPERS WILL BE ACCEPTED!

1. Write "2-chloro-1,4-hexadiazine" and draw its structural formula.
2. Draw an Aldehyde with five carbons, an alkoxy, and two chloro's and name it.
3. Draw a structure for a compound with two -OH groups, one bromo, and one cyano and name it.
4. Write "ethyl propanoate" (an ester) and draw its structural formula.
5. Write the reaction between 2-methyl-1-propene and bromine and name the product formed.
6. Describe the Triple Bond and write the reaction between 1-ethyne + iodine & name the product formed.
7. Write "1,4-dichlorobenzene" (moth crystals) and draw its structure.
8. Write "1-fluoro-2,3-butadione" and draw its structural formula.
9. Write the esterification reaction of ethanol with pentanoic acid. Name the products and reactants.
10. Define "Isomers" and give an example of a cis-trans isomer and name it.
11. Write the structure for 1,4,5-trifluoro-2,4-pentadione. Tell what kind of compound this is.
12. Write "1-fluoro-2,2-dibromopropane" and draw its structural formula.
13. Write "3,3,4,4,4-pentanitro-1-butyne" and draw its structural formula.
14. Write an example of a 1-methylbenzene (toluene) with three nitro groups and name it.
15. Describe the double bond and give three reasons why it is super reactive.
16. List and tell the functions of five steps of petroleum processing with examples. Include "octane rating".
17. Write the structural formula for 2-(2-bromo-3-fluoropropyl)-1,4-dinitrobenzene.
18. Give ten reasons and examples why there is such a huge number of organic compounds.
19. Explain three reasons why the double bond is super reactive.
20. Explain: Denatured Alcohol, Absolute Alcohol, and Proof of Alcohol.
21. Write the reaction between 1-nitro-2-butyne + Iodine and name the product formed.
22. Write the preparation of acetylene (1-ethyne) from calcium carbide and name the reactants and products.
23. Write the structural formula for 2-bromo-3-iodo-hexanoic acid.
24. Write a polymerization reaction for 1-iodo-1-ethene.
25. Write "2-methyl-1,3-butadiene" and show how it polymerizes to become rubber.

When finished, please STAPLE this exam onto your papers and turn in on due date.