BLITZ: Ch 29 Organic

Form S

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 "ethyl propanoate" and draw its structural formula.
2. Write the reaction between 2-methyl-1-propene and bromine and name the product formed.
3. Write the reaction of 1-ethyne + iodine & name the product formed.
4. Write "1,4-dichlorobenzene" (moth crystals) and draw its structure.
5. Write "1-fluoro-2,3-butadione" and draw its structural formula.
6. Write the reaction of methanol with propanoic acid. Name the products and reactants.
7. Define "Isomers" and give an example of a cis-trans isomer and name it.
8. Write and balance the reaction for the combustion of pentane plus oxygen (burn it).
9. Write "1-fluoro-2,2-dibromopropane" and draw its structural formula.
10. Write "3,3,4,4,4-pentanitro-1-butyne" and draw its structural formula.
11. Write an example of 1-methylbenzene (toluene) with three side groups and name it.
12. Describe the double bond and give three reasons why it is super reactive.
13. Write "2-chloro-1,4-hexadiamine" and draw its structural formula.
14. Draw an Aldehye with five carbons, a nitro, and two fluoro's and name it.
15. Draw a structural formula for a compd with three -OH groups and a double-bonded oxygen & name it.
16. List and tell the functions of five steps of petroleum processing with examples. Include "octane rating".
17. Explain: Denatured Alcohol, Absolute Alcohol, and Proof of Alcohol.
18. Write the structure for 1,5,5-trifluoro-2,4-pentadione. Tell what kind of compound this is.
19. Draw a 1,4-dimethylbenzene (xylene) compound with one asto group and two nitro groups and name it.
20. Diagram and describe the structure of the triple bond and tell why it is super reactive.
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-iodobutanoic acid.
24. Write a polymerization reaction for 1-iodo-1-ethene.
25. Write "2-methyl-1,3-butadiene" and show how it polymerizes to form rubber.

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