

BLITZ: Ch 29 Organic

Form A-C

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. List and tell the functions of five steps of petroleum processing with examples. Include "octane rating".
2. Write the structural formula for 2-(2-bromo-3-fluoropropyl)-2,4-dinitrophenol.
3. Write the structure for 1,4,5-trifluoro-2,4-pentadione. Tell what kind of compound this is.
4. Draw a benzene compound with three alkoxy groups and three nitro groups and name it.
5. Explain: Denatured Alcohol, Absolute Alcohol, and Proof of Alcohol.
6. Write the reaction between 1-nitro-2-butyne + Iodine and name the product formed.
7. Write the preparation of acetylene (1-ethyne) from calcium carbide and name the reactants and products.
8. Write the structural formula for 2-bromo-3-iodo-butanoic acid.
9. Write a polymerization reaction for 1-iodo-1-ethene.
10. Write "2-methyl-1,3-butadiene" and show how it becomes rubber by polymerization.
11. Write "ethyl propanoate" and draw its structural formula.
12. Write the reaction between 2-methyl-1-propene and bromine and name the product formed.
13. Describe the Triple Bond and write the reaction between 1-ethyne + iodine & name the product formed.
14. Write "1,4-dichlorobenzene" (moth crystals) and draw its structure.
15. Write "1-fluoro-2,3-butadione" and draw its structural formula.
16. Tell how esters are made and write the reaction of methanol with ethanoic acid.
17. Define "isomers" and give an example of a cis-trans isomer and name it.
18. Write and balance the reaction for the combustion of pentane plus oxygen (a burn it).
19. Write "1-fluoro-2,2-dibromopropane" and draw its structural formula.
20. Write "3,3,4,4,4-pentanitro-1-butyne" and draw its structural formula.
21. Show the structure of toluene (1-methyl benzene). Write an example (like TNT) and name it.
22. Describe the double bond and give three reasons why it is super reactive.
23. Write "2-chloro-1,4-hexadiazine" and draw its structural formula.
24. Draw an Aldehyde with five carbons, an alkoxy, and two bromo's and name it.
25. Draw a structural formula for a compound with three -OH groups and name it.

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