

NAME \_\_\_\_\_

## Organic Chemistry Assignment 3

1. Draw structural formula equations for the following reactions:
  - a) combustion of butane /3
  - b) combustion of propene /3
  - c) combustion of ethyne /3
  - d) addition of iodine to pentene /3
  - e) elimination of dichloro ethane /3
  - f) polymerisation of ethene /3
  
2. Write balanced equations for the following reactions:
  - a) combustion of octane /2
  - b) combustion of pentene /2
  - c) combustion of propyne /2
  - d) addition of chlorine to butene /2
  - e) elimination of dibromo hexane /2
  - f) polymerisation of propene /2
  
3. Compare and explain these properties of pentane, octane and pentanol
  - a) boiling point /3
  - b) solubility in butane /3
  - c) solubility in water /3
  
4. Draw structural formulae for the following:
  - a) 2,3 dimethyl pentanoic acid /2
  - b) 1,1,1 trichloro ethane /2
  - c) N methyl 2 propanamine /2
  - d) methanal /2
  - e) 1,2,3 propantriol /2
  - f) propyl butanoate /2
  - g) 1,3 dibromo 5 methyl benzene /2

TOTAL /53