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South Pasadena • AP Chemistry

Name: CYRUS
Period: ___ Date: ___/___/___

11 • Chemistry of Carbon

PRACTICE TEST

- A molecule named propene has the formula:
a) C_3H_4 b) C_3H_6 c) C_3H_8 d) C_3H_2
C₃H₆
- What is the name of a molecule with the formula, C_5H_{12} ?
a) pentane b) hexane c) butane d) pentene
C₅H₁₂
- A molecule that fits the pattern, C_nH_{2n+2} , is (n):
a) alkane b) alkene c) cyclic compound d) alkene e) need more info
alkane
- The general formula of the alkene series is:
a) C_nH_{2n} b) C_nH_{2n+2} c) C_nH_{2n+4} d) C_nH_{2n+6}
 C_nH_{2n}
- How many π bonds are present in propyne?
a) 1 b) 2 c) 3 d) 4
2
- The hydrocarbon series that has a double bond between carbon atoms is the:
a) alkane family b) alkene family c) alkyne family d) alkadiene family
alkene family
- Organic chemistry is the study of:
a) compounds of carbon b) molecules c) once-living things d) compounds produced by living things
compounds of carbon
- In octane, the hybridization(s) of carbon is(are):
a) sp and sp^2 b) sp^2 only c) sp , sp^2 and sp^3 d) sp^2 and sp^3
 sp^3 and sp^2
- The properties of carboxylic acids include all of the following except:
a) they can be neutralized by bases **TRUE**
b) the molecule has some polarity **TRUE**
c) they ionize completely in water solution **FALSE**
d) they react with alcohols to form esters **TRUE**
- Dimethylbenzene is also known as xylene. 1,3-dimethylbenzene would be the same as:
a) ortho-xylene b) meta-xylene c) para-xylene d) none of these
- The compound
is classified as a:
a) alcohol b) ester c) aldehyde d) ketone
ketone
- What hybridization is utilized by the oxygen atom in the carbonyl group above?
a) sp b) sp^2 c) sp^3
 sp^2

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