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[REVIEW] [SECTION 1]

2016
2015
12

* Write the scientific term ??

1 Most Compounds Contain Carbon element
[Organic Compounds]

2 A bond formed when two atoms share one or more pairs of electrons.

[Covalent bond]

3 The simplest way to represent organic Compounds [Chemical formulas]

4 A formula that uses lines to show the bonds formed between atoms

[Structural formulas]

5 The model gives a more realistic picture of the relative size of atoms and their arrangement in the molecule.

[Space filling models]

6 Compounds consisting of Carbon and hydrogen only [Hydrocarbons]

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⑦ Gas is used as fuel and works by some ovens and most of the external grills and hot air balloons

[Propane gas]

⑧ Hydrocarbons contain carbon atoms bound only by single bonds.

[Saturated]

⑨ Hydrocarbons contain at least one double or triple bond between carbon atoms.

[Unsatuated]

⑩ Compounds have the same chemical formula but differ in structural formulas and form. [Isomers]

⑪ Cyclic hydrocarbon contains six carbon atoms

[Benzene]

each of the following compounds as organic or inorganic.

CO_2 - CaS - C_2H_4 - C_2H_2 - CaCO_3 - C_3H_8
 H_2O - C_4H_{10} - FeO - CH_3COOH

Organic	Inorganic
C_2H_4	CO_2
C_2H_2	CaS
C_3H_8	CaCO_3
C_4H_{10}	FeO
CH_3COOH	H_2O

③ * Compare and Contrast ethane-ethene-ethyne

ethane	ethene	ethyne	Comparison
organic compounds/hydrocarbons	organic compounds/hydrocarbons	organic compounds/hydrocarbons	Similarities
C_2H_6	C_2H_4	C_2H_2	Chemical formulae
Saturated	Unsaturated	Unsaturated	Saturation
single (-)	double (=)	triple (\equiv)	bonds
$\begin{array}{c} \text{H} & \text{H} \\ & \\ \text{H}-\text{C}- & \text{C}-\text{H} \\ & \\ \text{H} & \text{H} \end{array}$	$\begin{array}{c} \text{H} & & \text{H} \\ & \diagdown & / \\ & \text{C} = & \text{C} \\ & / & \diagdown \\ \text{H} & & \text{H} \end{array}$	$\text{H}-\text{C}\equiv\text{C}-\text{H}$	Structural formulas

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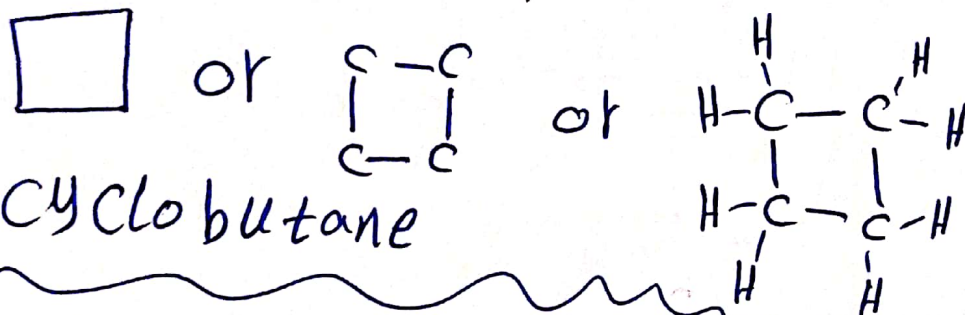
EXPLAIN the term saturated in relation to hydrocarbons. what are these compounds saturated with?

Saturated means that a compound holds as many hydrogen atoms as possible it is saturated with hydrogen atoms

⑤ how boiling and melting points generally vary as branching in hydrocarbon isomers increases??

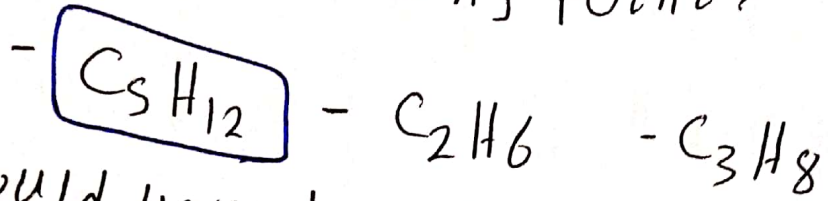
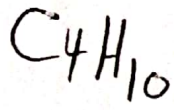
The higher the branch the less boiling.

⑥ Cyclobutane is a cyclic saturated hydrocarbon containing four carbon atoms. Draw its structural formula. Are cyclobutane and butane isomers?



No: because they don't have the same chemical formula. (17)

7) Which of the following compounds is the highest boiling point?



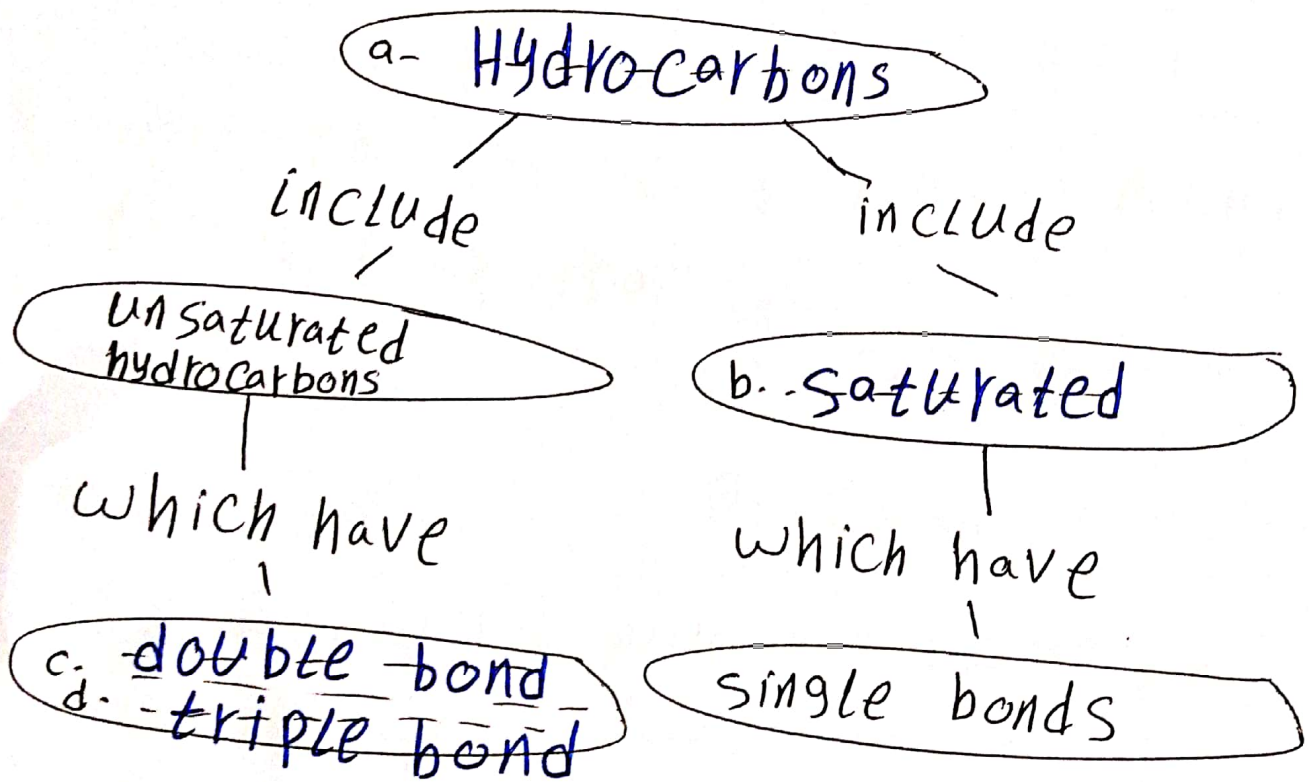
8) How would you describe a benzene ring??

A-rare

B-stable

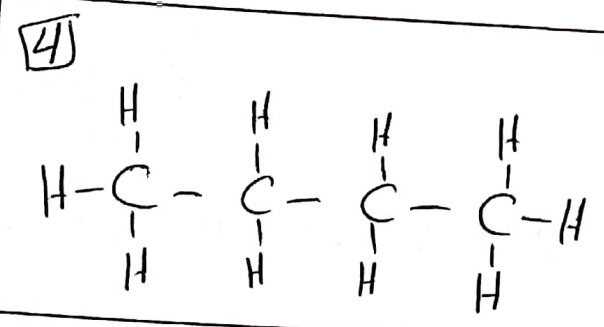
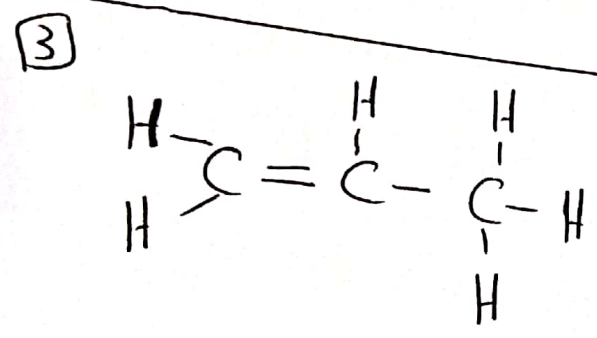
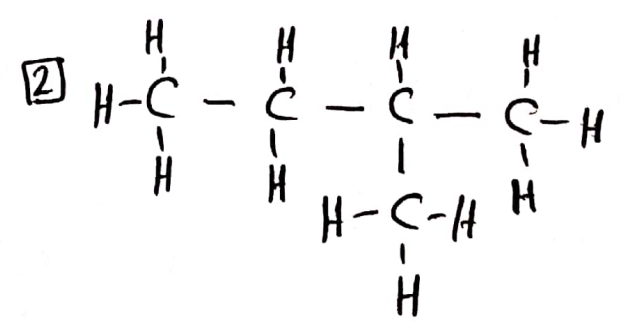
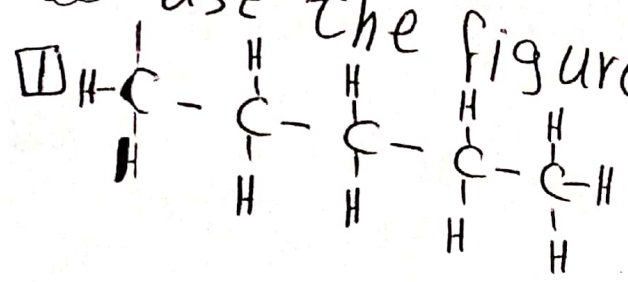
C-unstable D-saturated

9) Complete.



مراجعة
على بن ابي طالب
0503417402

10 Use the figure below to answer questions



A) Write the chemical formula of each of these hydrocarbons

- 1 C_5H_{12} 2 C_5H_{12}
 3 C_3H_6 4 C_4H_{10}

B) Identify which two are isomers?

1, 2

C) None of the previous compounds is saturated?

or: which unsaturated compounds

or: ANY 3

* Choose the correct answer:

1) What atoms make up a hydrocarbon molecule?

A: Oxygen, Carbon, and hydrogen

B: Nitrogen and Carbon

C: Carbon and hydrogen

2) Any of the following compounds are organic?

A: CO_2

B: CO_3^{2-}

C: H_2O

D: CH_4

3) Any of the types of representations shows the realistic picture of the size of atoms

A: Chemical formulas

B: Structural formulas

C: Space filling models

4) Which of the following compounds is used in some welding torches

A: methane

B: Ethane

C: Ethyne

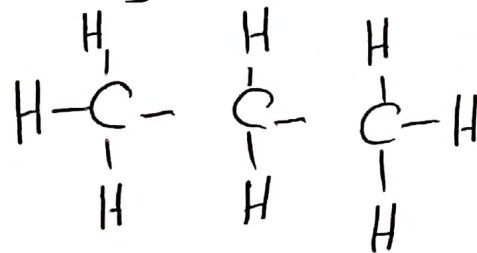
5) which of the following compounds helps ripen fruits (نفع الثمار)

A: ethylene

B: Ethyne

C: Ethane

6) Use the figure below to answer questions X and Y



X) What is the chemical formula of the compound shown above??

A: C_3H_3

B: CH_8

C: C_6H_6

D: C_3H_8

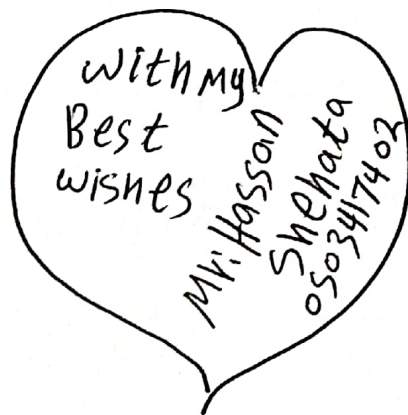
Y) What is the name of this compound

A: Propane

B: heptane

C: isoprene

D: methane



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