

問1 次の化学英語を和訳せよ。

- (1) element (2) electron (3) primary (4) substituent (5) addition
(6) hydrolysis (7) double bond (8) polar (9) insoluble (10) filtration

問2 次の英文を和訳せよ。

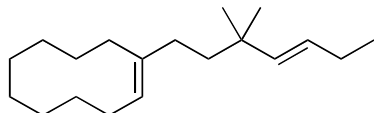
- (1) The methane molecule consists of a carbon atom with four hydrogen atoms bound to it in a tetrahedral fashion.
(2) Carbon can bond to fewer than four elements by forming one or more multiple bonds.
(3) Note that each carbon in ethylene is bonded to three atoms (one carbon and two hydrogens) but can bond to one additional atom after one bond of the carbon-carbon double bond is broken.
(4) Saturated hydrocarbons are called alkanes.
(5) Alkanes in which the carbon atoms form long “strings” or chains are called normal, straight-chain, or unbranched hydrocarbons.
(6) The number of hydrogen atoms present is twice the number of carbon atoms plus two (for the extra two hydrogen atoms on the ends).

問3 次の化合物を英語で命名せよ。ただし、特性基が主基となるための順位は、カルボン酸>アルデヒド>ケトン>アルコール>チオール>アミンの順である。

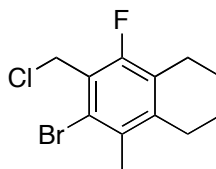
(1)



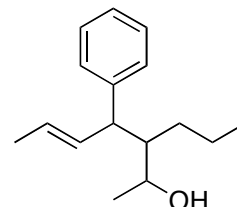
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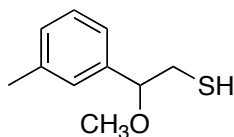
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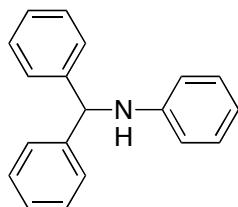
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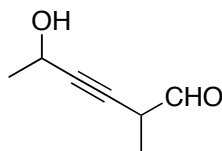
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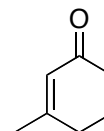
(6)



(7)



(8)



問4 次の名前の化合物の構造を記せ。

- (1) 5-(cyclohexa-2,4-dienyl)-4-(phenylsulfanyl)naphthalen-2-amine
(2) 1-(4-iodohept-4-en-2-ynyl)-4-(2-methylprop-1-enyl)cyclohexa-1,4-diene