## Week 5 – Key – Organic Nomenclature, Delivery

2.

a)  $CH_4$  methane b)  $C_6 H_6$  benzene c)  $CH_3OH$  methanol d)  $C_3H_8$  propane e)  $CH_3CH_2OH$  ethanol f) HCOOH methanoic acid / formic acid g)  $CH_3 - CO - CH_3$  propanone / acetone h)  $C_{10}H_8$  napthalene

## 3. Read the text and try to fill in the gaps according to the context

## The story of hydrocarbons

The classes of hydrocarbons are alkanes, **alkenes** alkynes and arenes. Alkanes are hydrocarbons in which all the **bonds** are single bonds and they are characterized by the molecular formula  $C_nH_{2n+2}$ .

Functional groups are the structural units responsible for the characteristic reactions of a molecule. The functional groups in an alkane are its hydrogen substituents.

The simplest alkane is methane,  $CH_4$ ; ethene is  $C_2H_6$  and propane is  $C_3H8$ .

Constitutional isomers are possible for alkanes with four or more carbon atoms.

Thus there are two isomers of molecular **formula**  $C_4H_{10}$ . One of these has an

unbranched carbon chain and is called butane; the other has a **branched** chain and is called isobutane. Isobutane is a common name.

Cycloalkanes are compounds / hydrocarbons / alkanes in which a ring is present; their formula is  $C_n H_{2n}$  .

	Version 2	Version 2
General appearance	scruffy	
		smart
Stance and posture		
	hunched	upright
Hands – position		
	in pockets	visible and active
Hands – gestures		
	no helpful gestures	clear, helpful gestures
Eye contact		
	none	a lot
Facial expression		
	depressed	concerned, enthusiastic
Movement		
	static – several nervous	dynamic
	gestures	

-	
Q	
Ο	•
~	