

## Chapter 8

# Organic Chemistry – Some Basic Principles and Techniques

### Question 8.1:

What are hybridisation states of each carbon atom in the following compounds?

$\text{CH}_2 = \text{C} = \text{O}$ ,  $\text{CH}_3\text{CH} = \text{CH}_2$ ,  $(\text{CH}_3)_2\text{CO}$ ,  $\text{CH}_2 = \text{CHCN}$ ,  $\text{C}_6\text{H}_6$

### Answer 8.1:

- (i)  $\overset{1}{\text{C}}\text{H}_2 = \overset{2}{\text{C}} = \overset{0}{\text{O}}$   
C-1 is  $sp^2$  hybridised.  
C-2 is  $sp$  hybridised.
- (ii)  $\overset{1}{\text{C}}\text{H}_3 - \overset{2}{\text{C}}\text{H} = \overset{3}{\text{C}}\text{H}_2$   
C-1 is  $sp^3$  hybridised.  
C-2 is  $sp^2$  hybridised.  
C-3 is  $sp^2$  hybridised.
- (iii)  $\overset{1}{\text{C}}\text{H}_3 - \overset{2}{\text{C}} = \overset{0}{\text{O}} - \overset{3}{\text{C}}\text{H}_3$   
C-1 is  $sp^3$  hybridised.
- (iv)  $\overset{1}{\text{C}}\text{H}_2 = \overset{2}{\text{C}}\text{H} - \overset{3}{\text{C}} = \text{N}$   
C-2 is  $sp^2$  hybridised.  
C-3 is  $sp$  hybridised.
- (v)  $\text{C}_6\text{H}_6$   
All the 6 carbon atoms in benzene are  $sp^2$  hybridised.

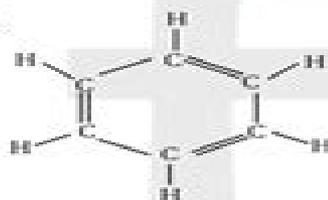
### Question 8.2:

Indicate the  $\sigma$  and  $\pi$  bonds in the following molecules :

$\text{C}_6\text{H}_6$ ,  $\text{C}_6\text{H}_{12}$ ,  $\text{CH}_2\text{Cl}_2$ ,  $\text{CH}_2 = \text{C} = \text{CH}_2$ ,  $\text{CH}_3\text{NO}_2$ ,  $\text{HCONHCH}_3$

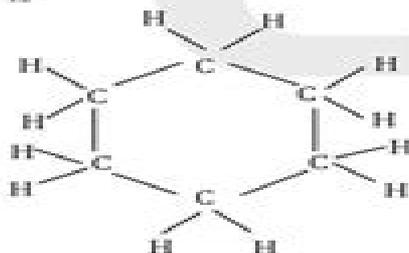
### Answer 8.2:

(i)  $\text{C}_6\text{H}_6$



There are six C-C sigma ( $\sigma_{\text{C-C}}$ ) bonds, six C-H sigma ( $\sigma_{\text{C-H}}$ ) bonds and three C=C pi ( $\pi_{\text{C=C}}$ ) resonating bonds in this compound.

(ii)  $\text{C}_6\text{H}_{12}$



There are six C-C sigma ( $\sigma_{\text{C-C}}$ ) bonds and twelve C-H sigma ( $\sigma_{\text{C-H}}$ ) bonds in this compound.

# Chemistry Chapter 8

**Joacim Rocklöv**



## **Chemistry Chapter 8:**

## **Chemistry Chapter 8** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Chemistry Chapter 8**," published by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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