


# 12. GENERAL ORGANIC CHEMISTRY

## CONCEPTUAL BULLETS

- Which of following is homologous series  
 1)  $C_2H_6, C_2H_4, C_2H_2, C_2H_5$   
 2)  $C_6H_6, C_7H_8, C_9H_{10}, C_9H_{12}$   
 3)  $CH_4, C_2H_6, C_3H_8, C_4H_{10}$   
 4)  $C_2H_2, C_3H_4, C_4H_6, C_4H_{10}$
- The number of hybrid and unhybridised orbitals involved in the formation of a  $C_2H_4$  molecule are  
 1) 8, 4      2) 5, 5      3) 6, 6      4) 6, 4
- The IUPAC name of the given compound   $-CH_2-CH=CH_2$  is  
 1) 3-Cyclopropyl-1-propene  
 2) 1-Allylcyclopropene  
 3) 3-Allylcyclopropene  
 4) 3-Cyclopropene-1-propene
- Identify the heterocyclic aromatic compounds among the following :  
 I = Furan                      II = Phenol  
 III = pyrrole                  IV = Pyridine  
 1) I, II, III                      2) I, II only  
 3) II, III, IV                    4) I, III, IV
- IUPAC name for following compound  

$$CH_2=CH-CH_2-\underset{\substack{| \\ CH_3}}{CH}-C\equiv CH$$
  
 1) 4-Methyl-hex-1-ene-5-yne  
 2) 3-Methyl hex-5-en-1-yne  
 3) 4-Ethynyl Pent-1-ene  
 4) 2-Ethynyl Pent-4-ene
- Glycerol can be separated from spent - lye in soap industry by using  
 1) Steam distillation  
 2) Vacuum distillation  
 3) Simple distillation  
 4) Differential extraction
- Ratio of  $\pi$  to  $\sigma$  bonds in benzene is  
 1) 1 : 4      2) 1 : 2      3) 3 : 1      4) 1 : 6
- Which of the following compounds have only one type of hybridised carbon atoms ?  
 1)  $CH_2=CH-CH=CH_2$   
 2)  $HC\equiv C-C\equiv CH$   
 3)  $CH_3-CH_2-CH_2-CH_3$   
 4) All the above
- LIST - 1

A) Neopentane  
B) Isobutane  
C) Cyclohexane  
D) Isopentane

LIST - 2

1)  $1^\circ$  and  $3^\circ$ -Carbons  
2) All  $2^\circ$ - Carbons  
3)  $1^\circ$  and  $4^\circ$ - Carbons  
4) Only  $1^\circ$ - Carbons  
5)  $1^\circ$ ,  $2^\circ$  and  $3^\circ$ - Carbons

The correct match is

	A	B	C	D
1)	1	5	3	2
2)	5	3	4	1
3)	3	1	2	5
4)	3	1	5	3
- IUPAC names of  $CH_2=CH-CH_2-$  and  $CH_3-CH=CH-$  groups respectively are  
 1) 2-propenyl & 1-propenyl  
 2) 1-propenyl & 2-propenyl  
 3) Allyl & vinyl  
 4) Vinyl & allyl
- LIST - 1  
(Radical)

A) Vinyl  
B) Allyl  
C) Propenyl  
D) Phenyl

LIST - 2  
(Formula)

1)  $C_6H_5-$   
2)  $CH_2=CH-$   
3)  $CH_3-CH_2-CH_2-$   
4)  $CH_3-CH=CH-$   
5)  $CH_2=CH-CH_2-$

The correct match is

	A	B	C	D
1)	2	5	4	1
2)	5	2	3	1
3)	2	4	5	1
4)	1	2	3	4
- Which one of the following does not have  $sp^2$  hybridised carbon?  
 1) Acetone                      2) Acetic acid  
 3) Acetonitrile                4) Acetamide

# General Chemistry Mcq

**Arshad Iqbal**



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