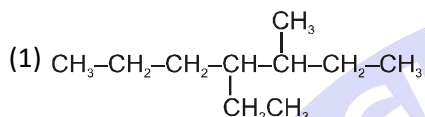




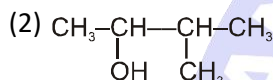
NEET-FLASHBACK



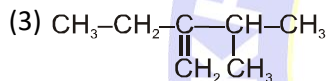
Q.1 Names of some compounds are given. Which one is not in IUPAC system: **[AIPMT 2005]**



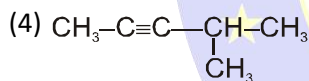
3-Methyl-4-ethyl heptane



3-Methyl-2-butanol



2-Ethyl-3-methyl-but-1-ene




4-Methyl-2-pentyne

Q.2 $\text{CH}_3-\underset{\text{Cl}}{\underset{|}{\text{C}}}=\text{CH}-\underset{\text{O}}{\underset{||}{\text{C}}}-\text{OCH}_3$ is named in IUPAC as :

[AIPMT 2005]

- (1) Methyl-3-chloro-2-butenolate
- (2) Methyl-4-chloro-2-pentanoate
- (3) Methoxy-3-chloro butanol
- (4) Methoxy-2-chloro butanone

Q.3 -Me is named in IUPAC as :

[AIPMT 2005]

- (1) 3-Methyl cyclohexyne
- (2) 2-Methyl cyclohexyne
- (3) 4-Methyl cyclohexyne
- (4) 1-Methyl-2-cyclohexyne

Q.4 The general molecular formula, which represents the homologous series of alkanols is:

[AIPMT 2006]

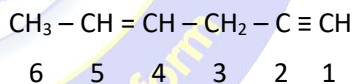
- (1) $C_nH_{2n}O_2$ (2) $C_nH_{2n}O$
(3) $C_nH_{2n+1}O$ (4) $C_nH_{2n+2}O$

Q.5 The IUPAC name of  is:

[AIPMT 2006]

- (1) 3,4-dimethylpentanoyl chloride
- (2) 1-chloro-1-oxo-2,3-dimethylpentane
- (3) 2-ethyl-3-methylbutanoyl chloride
- (4) 2,3-dimethylpentanoyl chloride

Q.6 In the hydrocarbon



The state of hybridization of carbons 1, 3 and 5 are in the following sequence: **[AIPMT 2008]**

- (1) sp, sp^2, sp^3 (2) sp^3, sp^2, sp
(3) sp^2, sp, sp^3 (4) sp, sp^3, sp^2

Q.7 The IUPAC name of the compound having the formula $\text{CH} \equiv \text{C} - \text{CH} = \text{CH}_2$ is: **[AIPMT 2009]**

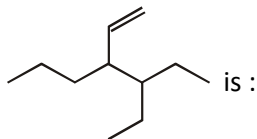
- (1) 1-buten-3-yne (2) 3-buten-1-yne
(3) 1-butyn-3-ene (4) but-1-yn-3-ene

Q.8 The IUPAC name of the compound $\text{CH}_3\text{CH}=\text{CHC}\equiv\text{CH}$ is : **[AIPMT 2010]**

- (1) Pent-3-en-1-yne (2) Pent-2-en-4-yne

(3) Pent-1-yn-3-ene (4) Pent-4-yn-2-ene

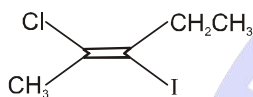
Q.9 The correct IUPAC name of the compound



is : [AIPMT PRE.-2011]

- (1) 4-Ethyl-3-propyl hex-1-ene
- (2) 3-Ethyl-4-ethenyl heptane
- (3) 3-Ethyl-4-propyl hex-5-ene
- (4) 3-(1-ethyl propyl) hex-1-ene

Q.10 The IUPAC name of the following compound

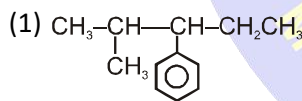


is :

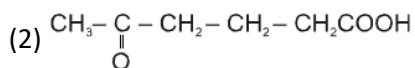
[AIPMT MAINS-2011]

- (1) cis-2-chloro-3-iodo-2-pentene
- (2) trans-2-chloro-3-iodo-2-pentene
- (3) cis-3-iodo-4-chloro-3-pentene
- (4) trans-3-iodo-4-chloro-3-pentene

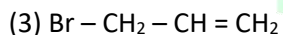
Q.11 Which nomenclature is not according to IUPAC system? [AIPMT PRE-2012]



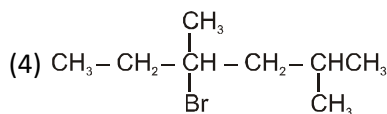
2-Methyl-3-phenylpentane



5-Oxohexanoic acid

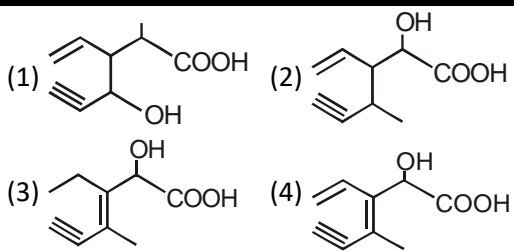


1-Bromo-prop-2-ene



4-Bromo,2,4-di-methylhexane

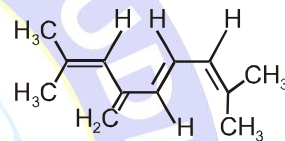
Q.12 Structure of the compound whose IUPAC name is 3-Ethyl-2-hydroxy-4-methylhex-3-en-5-ynoic acid is : [NEET UG-2013]



Q.13 Which of the following organic compounds has same hybridization as its combustion product CO_2 ? [AIPMT-2014]

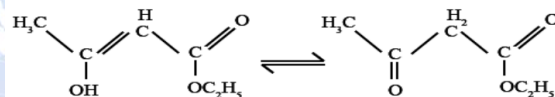
- (1) Ethane (2) Ethyne
- (3) Ethene (4) Ethanol

Q.14 The total number of p-bond electrons in the following structure is: [AIPMT-2015]



- (1) 8 (2) 12 (3) 16 (4) 4

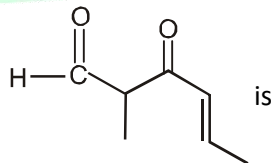
Q.15 The enolic form of ethyl acetoacetate as below has:



[AIPMT-2015]

- (1) 16 sigma bonds and 1 pi-bond
- (2) 9 sigma bonds and 2 pi-bond
- (3) 9 sigma bonds and 1 pi-bond
- (4) 18 sigma bonds and 2 pi-bond

Q.16 The IUPAC name of the compound



is :

[NEET-2017]

- (1) 3-keto-2-methylhex-4-enal
- (2) 5-formylhex-2-en-3-one
- (3) 5-methyl-4-oxohex-2-en-5-al
- (4) 3-keto-2-methylhex-5-enal

CHEMISTRY

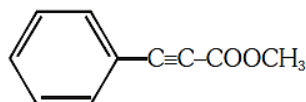
Q.17 Which of the following molecules represents the order of hybridisation sp^2 , sp^2 , sp , sp from left to right atoms? **[NEET-2018]**

- (1) $HC\equiv C-C\equiv CH$ (2) $CH_2=CH-C\equiv CH$
(3) $CH_2=CH-CH=CH_2$ (4) $CH_3-CH=CH-CH_3$

Q.18 The number of sigma (σ) and pi (π) bonds in pent-2-en-4-yne is : **[NEET-2019]**

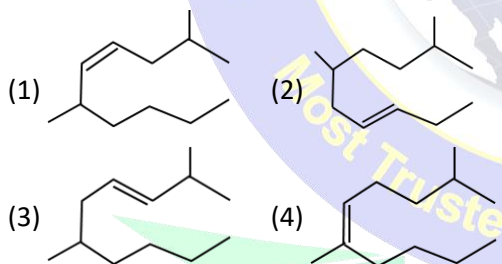
- (1) 11 σ bonds and 2 π bonds
(2) 13 σ bonds and no π bonds
(3) 10 σ bonds and 3 π bonds
(4) 8 σ bonds and 5 π bonds

Q.19 How many (i) sp^2 hybridised carbon atoms and (ii) π bonds are present in the following compound ? **[NEET-Recovid-2020]**

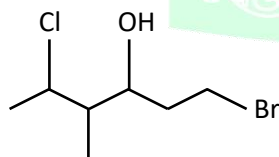


- (1) 7, 5 (2) 8, 6
(3) 7, 6 (4) 8, 5

Q.20 The correct structure of 2, 6-Dimethyl-dec-4-ene is : **[NEET-2021]**



Q.21 The correct IUPAC name of the following compound is: **[NEET 2022]**



- (1) 6-bromo-4-methyl-2-chlorohexan-4-ol
(2) 1-bromo-5-Chloro-4-methylhexan-3-ol
(3) 6-bromo-2-chloro-4-methylhexan-4-ol
(4) 1-bromo-4-methyl-5-chlorohexan-3-ol

ANSWER KEY

NEET-FLASHBACK

Que.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Ans.	1	1	1	4	4	4	1	1	1	2	3	3	2	1	4
Que.	16	17	18	19	20	21									
Ans.	1	2	3	3	1	2									

