

PYQSide

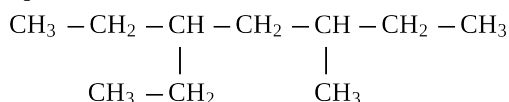
NEET ORGANIC CHEMISTRY – SOME BASIC PRINCIPLES AND TECHNIQUES — PYQS

Max. Marks: 284

Questions: 71

Section A (MCQ)

Q.1 The correct IUPAC name of the following compound is : [NEET (UG) 2026]

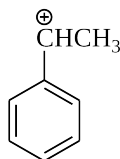


- (1) 3-ethyl-5-methylheptane
- (2) 3-methyl-5-ethylheptane
- (3) 2,4-diethylhexane
- (4) 3,5-diethylhexane

Scan or tap for the full solution



Q.2 The following carbocation is stabilized by the interaction of the empty p orbital with [RE-NEET (UG) 2026]



- (1) empty σ^* and empty π^* orbitals
- (2) filled σ and filled π orbitals
- (3) empty σ and empty π^* orbitals
- (4) empty σ^* and filled π orbitals

Scan or tap for the full solution



Q.3 Arrange the following compounds in the increasing order of polarity

- A. $\text{CH}_3\text{CH}_2\text{OCH}_2\text{CH}_3$ B. $\text{CH}_3\text{CH}_2\text{OH}$
 C. CH_3COCH_3 D. CH_3COOH

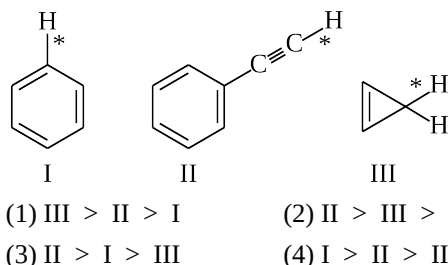
Choose the correct answer from the options given below. [RE-NEET (UG) 2026]

- (1) $A < C < B < D$ (2) $A < B < C < D$
- (3) $C < A < D < B$ (4) $C < A < B < D$

Scan or tap for the full solution



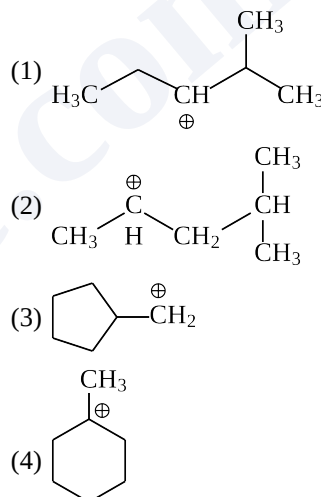
Q.4 Among the given compounds I-III, the correct order of bond dissociation energy of C-H bond marked with * is : [NEET (UG) 2025]



Scan or tap for the full solution



Q.5 The most stable carbocation among the following is : [NEET (UG) 2024]



Scan or tap for the full solution



Q.6 A compound with a molecular formula of C_6H_{14} has two tertiary carbons. Its IUPAC name is :

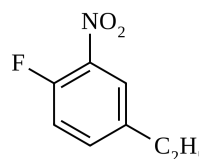
[NEET (UG) 2024]

- (1) n-hexane (2) 2-methylpentane
- (3) 2,3-dimethylbutane (4) 2,2-dimethylbutane

Scan or tap for the full solution



Q.7 The correct IUPAC name of the compound



is :

[RE-NEET (UG) 2024]

- (1) 4-ethyl-1-fluoro-2-nitrobenzene
 (2) 4-ethyl-1-fluoro-6-nitrobenzene
 (3) 3-ethyl-6-fluoro-1-nitrobenzene
 (4) 1-ethyl-4-fluoro-3-nitrobenzene

Scan or tap for the full solution



Q.8 Methyl group attached to a positively charged carbon atom stabilizes the carbocation due to

[RE-NEET (UG) 2024]

- (1) -I inductive effect (2) electromeric effect
 (3) hyperconjugation (4) mesomeric effect

Scan or tap for the full solution



Q.9 The number of σ bonds, π bonds and lone pair of electrons in pyridine, respectively are:

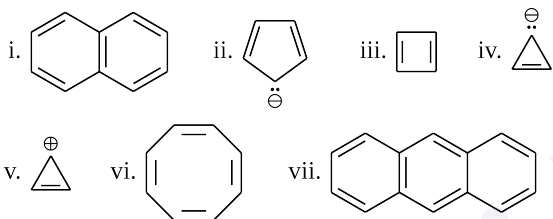
[NEET (UG) 2023]

- (1) 12, 3, 0 (2) 11, 3, 1 (3) 12, 2, 1 (4) 11, 2, 0

Scan or tap for the full solution



Q.10 Consider the following compounds/species:



The number of compounds/species which obey Hückel's rule is _____.

[NEET (UG) 2023]

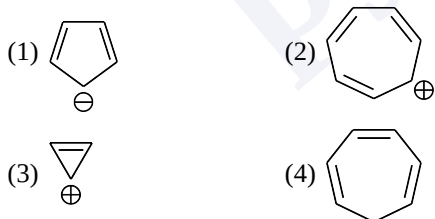
- (1) 6 (2) 2 (3) 5 (4) 4

Scan or tap for the full solution



Q.11 Which compound amongst the following is not an aromatic compound?

[NEET (UG) 2022]

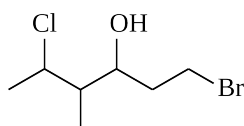


Scan or tap for the full solution



Q.12 The correct IUPAC name of the following compound is

[NEET (UG) 2022]



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

Scan or tap for the full solution



Q.13 What is the hybridization shown by C_1 and C_2 carbons, respectively in the given compound?



[NEET (UG) 2022 (Phase 2)]

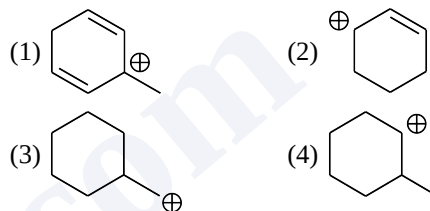
- (1) sp^3 and sp^3 (2) sp^2 and sp^3
 (3) sp^2 and sp^2 (4) sp^3 and sp^2

Scan or tap for the full solution



Q.14 Which of the following is the most stable carbocation?

[NEET (UG) 2022 (Phase 2)]

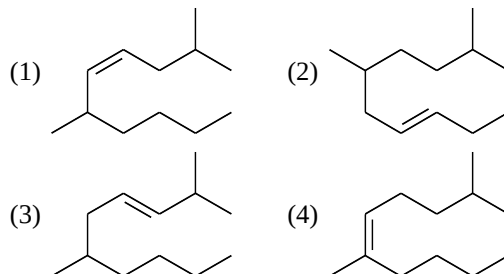


Scan or tap for the full solution



Q.15 The correct structure of 2, 6-dimethyl-dec-4-ene is

[NEET (UG) 2021]



Scan or tap for the full solution



Q.16 A tertiary butyl carbocation is more stable than a secondary butyl carbocation because of which of the following?

[NEET (UG) 2020]

- (1) +R effect of $-\text{CH}_3$ groups
 (2) -R effect of $-\text{CH}_3$ groups
 (3) Hyperconjugation
 (4) -I effect of $-\text{CH}_3$ groups

Scan or tap for the full solution



Q.17 The number of sigma (σ) and pi (π) bonds in pent-3-en-1-yne is -

[NEET (UG) 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

Scan or tap for the full solution



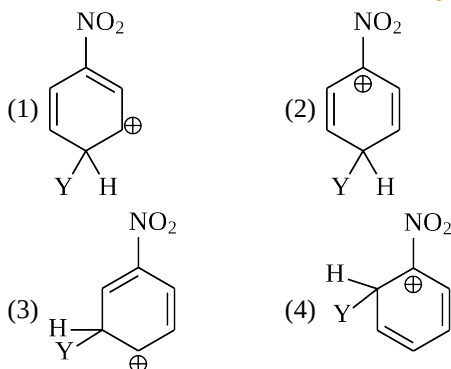
Q.18 Which of the following is correct with respect to -I effect of the substituents? (R = alkyl) [NEET 2018]

- (1) $-\text{NH}_2 < -\text{OR} < -\text{F}$ (2) $-\text{NR}_2 < -\text{OR} < -\text{F}$
 (3) $-\text{NH}_2 > -\text{OR} > -\text{F}$ (4) $-\text{NR}_2 > -\text{OR} > -\text{F}$

Scan or tap for the full solution



Q.19 Which of the following carbocations is expected to be most stable? [NEET 2018]



Scan or tap for the full solution



Q.20 Which of the following molecules represents the order of hybridisation sp^2 , sp^2 , sp , sp from left to right atoms? [NEET 2018]

- (1) $\text{HC}\equiv\text{C} - \text{C}\equiv\text{CH}$
 (2) $\text{CH}_2 = \text{CH} - \text{C}\equiv\text{CH}$
 (3) $\text{CH}_2 = \text{CH} - \text{CH} = \text{CH}_2$
 (4) $\text{CH}_3 - \text{CH} = \text{CH} - \text{CH}_3$

Scan or tap for the full solution



Q.21 The correct statement regarding electrophile is

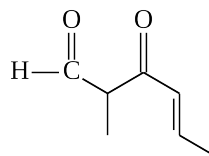
[NEET 2017]

- (1) electrophile is a negatively charged species and form a bond by accepting a pair of electrons from another electrophile
 (2) electrophiles are generally neutral species and can form a bond by accepting a pair of electrons from a nucleophile
 (3) electrophile can be either neutral or positively charged species and can form a bond by accepting a pair of electrons from a nucleophile
 (4) electrophile is a negatively charged species and can form a bond by accepting a pair of electrons from a nucleophile.

Scan or tap for the full solution



Q.22 The IUPAC name of the compound [NEET 2017]



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

Scan or tap for the full solution



Q.23 Which one is the correct order of acidity?

[NEET 2017]

- (1) $\text{CH}\equiv\text{CH} > \text{CH}_3 - \text{C}\equiv\text{CH} > \text{CH}_2 = \text{CH}_2 > \text{CH}_3 - \text{CH}_3$
 (2) $\text{CH}\equiv\text{CH} > \text{CH}_2 = \text{CH}_2 > \text{CH}_3 - \text{C}\equiv\text{CH} > \text{CH}_3 - \text{CH}_3$
 (3) $\text{CH}_3 - \text{CH}_3 > \text{CH}_2 = \text{CH}_2 > \text{CH}_3 - \text{C}\equiv\text{CH} > \text{CH}\equiv\text{CH}$
 (4) $\text{CH}_2 = \text{CH}_2 > \text{CH}_3 - \text{CH} = \text{CH}_2 > \text{CH}_3 - \text{C}\equiv\text{CH} > \text{CH}\equiv\text{CH}$

Scan or tap for the full solution

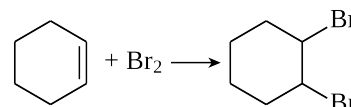
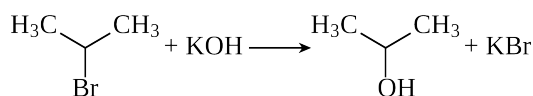


Q.24 For the following reactions :

- (A) $\text{CH}_3\text{CH}_2\text{CH}_2\text{Br} + \text{KOH} \longrightarrow \text{CH}_3\text{CH}=\text{CH}_2 + \text{KBr} + \text{H}_2\text{O}$
 (B)
 (C)

Which of the following statements is correct?

[NEET 2016 (Phase 1)]



- (1) (A) is elimination, (B) and (C) are substitution reactions.
 (2) (A) is substitution, (B) and (C) are addition reactions.
 (3) (A) and (B) are elimination reactions and (C) is addition reaction.
 (4) (A) is elimination, (B) is substitution and (C) is addition reaction.

Scan or tap for the full solution



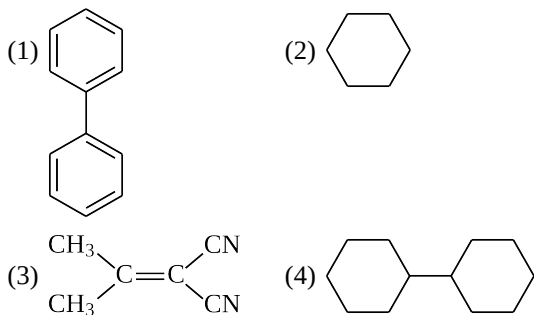
Q.25 The pair of electrons in the given carbanion, $\text{CH}_3\text{C}\equiv\text{C}^-$, is present in which of the following orbitals? [NEET 2016 (Phase 1)]

- (1) sp^2 (2) sp (3) $2p$ (4) sp^3

Scan or tap for the full solution



Q.26 In which of the following molecules, atoms are coplanar? [NEET 2016 (Phase 2)]

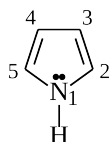


Scan or tap for the full solution



Q.27 In pyrrole the electron density is maximum on

[NEET 2016 (Phase 2)]



- (1) 2 and 3 (2) 3 and 4 (3) 2 and 4 (4) 2 and 5

Scan or tap for the full solution



Q.28 Which of the following statements is not correct for a nucleophile?

[AIPMT 2015]

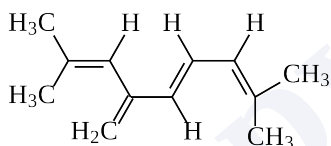
- (1) Ammonia is a nucleophile.
 (2) Nucleophiles attack low e^- density sites.
 (3) Nucleophiles are not electron seeking.
 (4) Nucleophile is a Lewis acid.

Scan or tap for the full solution



Q.29 The total number of π -bond electrons in the following structure is

[AIPMT 2015 (Cancelled)]



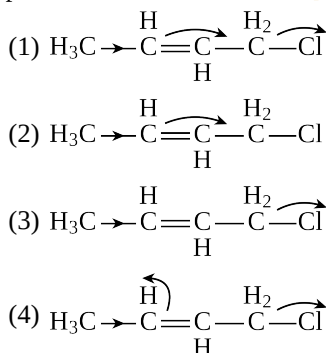
- (1) 12 (2) 16 (3) 4 (4) 8

Scan or tap for the full solution



Q.30 Which of the following is the most correct electron displacement for a nucleophilic reaction to take place?

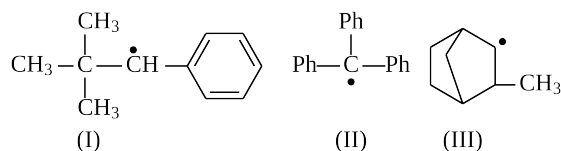
[AIPMT 2015 (Cancelled)]



Scan or tap for the full solution



Q.31 Consider the following compounds :



Hyperconjugation occurs in

[AIPMT 2015 (Cancelled)]

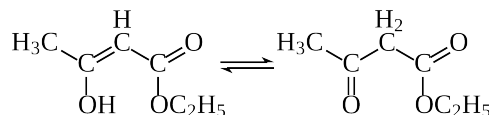
- (1) III only (2) I and III (3) I only (4) II only

Scan or tap for the full solution



Q.32 The enolic form of ethyl acetoacetate as shown below has

[AIPMT 2015 (Cancelled)]



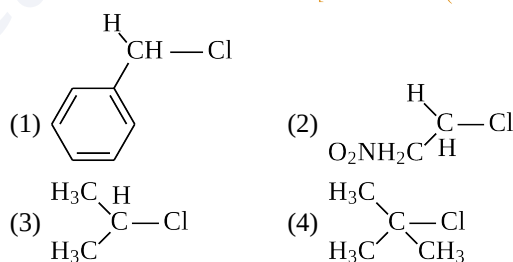
- (1) 9 sigma bonds and 2 pi-bonds
 (2) 9 sigma bonds and 1 pi-bond
 (3) 18 sigma bonds and 2 pi-bonds
 (4) 16 sigma bonds and 1 pi-bond.

Scan or tap for the full solution



Q.33 In which of the following compounds, the C-Cl bond ionisation shall give most stable carbonium ion?

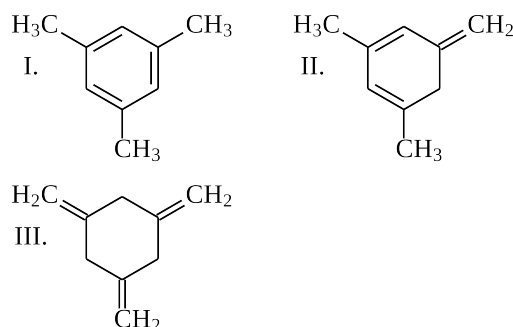
[AIPMT 2015 (Cancelled)]



Scan or tap for the full solution



Q.34 Given :



The enthalpy of hydrogenation of these compounds will be in the order as

[AIPMT 2015 (Cancelled)]

- (1) II > III > I (2) II > I > III
 (3) I > II > III (4) III > II > I

Scan or tap for the full solution



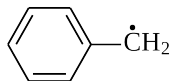
Q.35 Which of the following organic compounds has same hybridization as its combustion product (CO_2)? [AIPMT 2014]

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

Scan or tap for the full solution



Q.36 The radical, is aromatic because it has [NEET 2013]



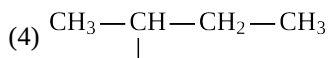
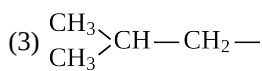
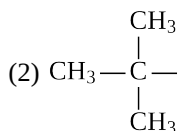
- (1) 7 p-orbitals and 7 unpaired electrons
(2) 6 p-orbitals and 7 unpaired electrons
(3) 6 p-orbitals and 6 unpaired electrons
(4) 7 p-orbitals and 6 unpaired electrons.

Scan or tap for the full solution



Q.37 The structure of isobutyl group in an organic compound is [NEET 2013]

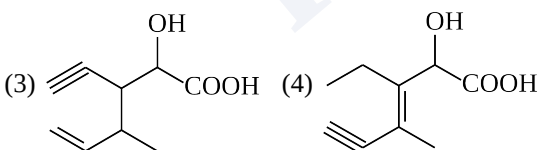
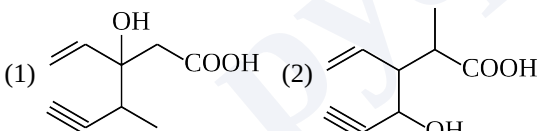
- (1) $\text{CH}_3-\text{CH}_2-\text{CH}_2-\text{CH}_2-$



Scan or tap for the full solution



Q.38 Structure of the compound whose IUPAC name is 3-Ethyl-2-hydroxy-4-methylhex-3-en-5-ynoic acid is [NEET 2013]



Scan or tap for the full solution



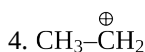
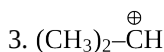
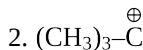
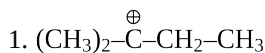
Q.39 The outer orbitals of C in ethene molecule can be considered to be hybridized to give three equivalent sp^2 orbitals. The total number of sigma (σ) and pi (π) bonds in ethene molecule is [NEET 2013 (Karnataka)]

- (1) 3 sigma (σ) and 2 pi (π) bonds
(2) 4 sigma (σ) and 1 pi (π) bonds
(3) 5 sigma (σ) and 1 pi (π) bonds
(4) 1 sigma (σ) and 2 pi (π) bonds

Scan or tap for the full solution



Q.40 Arrange the following in increasing order of stability



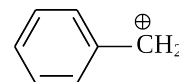
[NEET 2013 (Karnataka)]

- (1) $5 < 4 < 3 < 1 < 2$ (2) $4 < 5 < 3 < 1 < 2$
(3) $1 < 5 < 4 < 3 < 2$ (4) $5 < 4 < 3 < 2 < 1$

Scan or tap for the full solution



Q.41 What is the hybridisation state of benzyl carbonium ion? [NEET 2013 (Karnataka)]



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

Scan or tap for the full solution



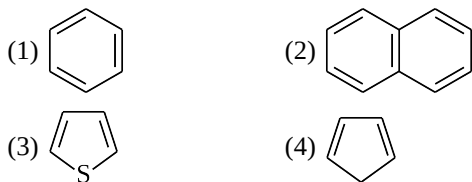
Q.42 Homolytic fission of the following alkanes forms free radicals $\text{CH}_3-\dot{\text{C}}\text{H}_3$, $\text{CH}_3-\dot{\text{C}}\text{H}_2-\text{CH}_3$, $(\text{CH}_3)_2\dot{\text{C}}\text{H}-\text{CH}_3$, $\text{CH}_3-\dot{\text{C}}\text{H}_2-\text{CH}(\text{CH}_3)_2$. Increasing order of stability of the radicals is [NEET 2013 (Karnataka)]

- (1) $(\text{CH}_3)_2\dot{\text{C}}\text{H}-\text{CH}_2\text{CH}_3 < \text{CH}_3-\dot{\text{C}}\text{H}-\text{CH}_3 < \text{CH}_3-\dot{\text{C}}\text{H}_2 < (\text{CH}_3)_3\dot{\text{C}}$
(2) $\text{CH}_3-\dot{\text{C}}\text{H}_2 < \text{CH}_3-\dot{\text{C}}\text{H}-\text{CH}_3 < (\text{CH}_3)_2\dot{\text{C}}\text{H}-\text{CH}_2-\text{CH}_3 < (\text{CH}_3)_3\dot{\text{C}}$
(3) $\text{CH}_3-\dot{\text{C}}\text{H}_2 < \text{CH}_3-\dot{\text{C}}\text{H}-\text{CH}_3 < (\text{CH}_3)_3\dot{\text{C}} < (\text{CH}_3)_2\dot{\text{C}}\text{H}-\text{CH}_2\text{CH}_3$
(4) $(\text{CH}_3)_3\dot{\text{C}} < (\text{CH}_3)_2\dot{\text{C}}\text{H}-\text{CH}_2\text{CH}_3 < \text{CH}_3-\dot{\text{C}}\text{H}-\text{CH}_3 < \text{CH}_3-\dot{\text{C}}\text{H}_2$

Scan or tap for the full solution



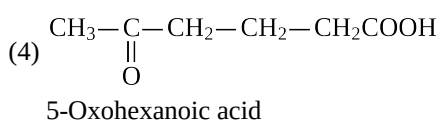
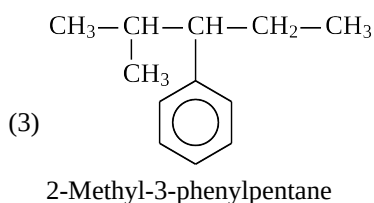
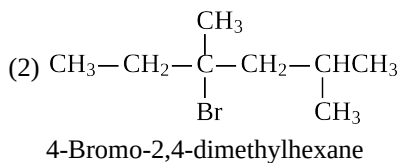
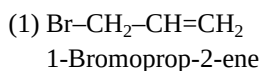
Q.43 Which of the following chemical system is non aromatic? [NEET 2013 (Karnataka)]



Scan or tap for the full solution



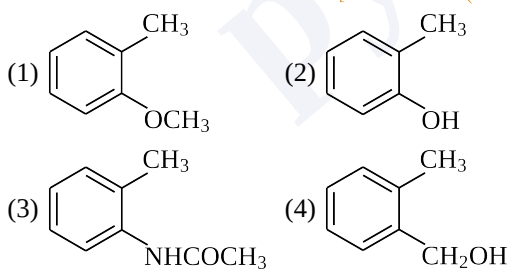
Q.44 Which nomenclature is not according to IUPAC system? [AIPMT 2012 (Prelims)]



Scan or tap for the full solution



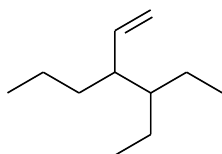
Q.45 Which one of the following is most reactive towards electrophilic reagent? [AIPMT 2011 (Prelims)]



Scan or tap for the full solution



Q.46 The correct IUPAC name for the compound is [AIPMT 2011 (Prelims)]



- (1) 4-ethyl-3-propylhex-1-ene
 (2) 3-ethyl-4-ethenylheptane
 (3) 3-ethyl-4-propylhex-5-ene
 (4) 3-(1-ethylpropyl)hex-1-ene

Scan or tap for the full solution



Q.47 Which of the following species is not electrophilic in nature? [AIPMT 2010 (Mains)]

- (1) Cl^+ (2) BH_3 (3) H_3O^+ (4) NO_2^+

Scan or tap for the full solution



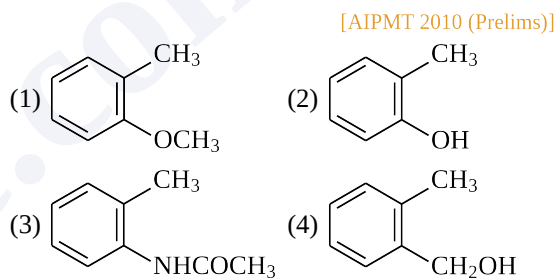
Q.48 The IUPAC name of the compound $\text{CH}_3\text{CH}=\text{CHC}\equiv\text{CH}$ is [AIPMT 2010 (Mains)]

- (1) pent-4-yn-2-ene (2) pent-3-en-1-yne
 (3) pent-2-en-4-yne (4) pent-1-yn-3-ene

Scan or tap for the full solution



Q.49 Which one of the following is most reactive towards electrophilic reagent?



Scan or tap for the full solution



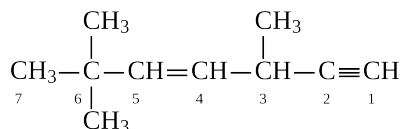
Q.50 The IUPAC name of the compound having the formula $\text{CH}\equiv\text{C}-\text{CH}=\text{CH}_2$ is [AIPMT 2009]

- (1) 1-butyne-3-ene (2) but-1-yne-3-ene
 (3) but-1-en-3-yne (4) 3-butene-1-yne.

Scan or tap for the full solution



Q.51 The state of hybridisation of C_2 , C_3 , C_5 and C_6 of the hydrocarbon,



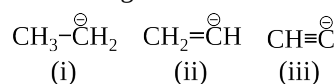
is in the following sequence [AIPMT 2009]

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

Scan or tap for the full solution



Q.52 Base strength of



is in the order of

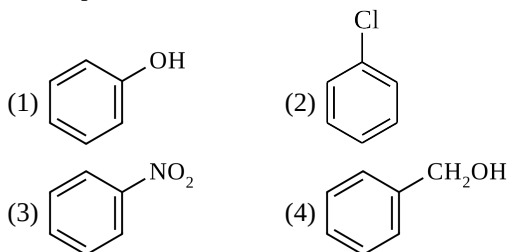
[AIPMT 2008]

- (1) (i) > (iii) > (ii) (2) (i) > (ii) > (iii)
 (3) (ii) > (i) > (iii) (4) (iii) > (ii) > (i)

Scan or tap for the full solution



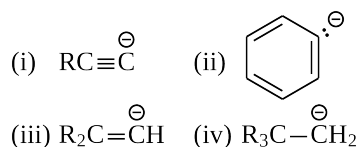
Q.53 Which one of the following is most reactive towards electrophilic attack? [AIPMT 2008]



Scan or tap for the full solution



Q.54 The stability of carbanions in the following



is in the order of

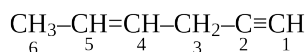
[AIPMT 2008]

- (1) (iv) > (ii) > (iii) > (i) (2) (i) > (iii) > (ii) > (iv)
 (3) (i) > (ii) > (iii) > (iv) (4) (ii) > (iii) > (iv) > (i)

Scan or tap for the full solution



Q.55 In the hydrocarbon,



The states 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

Scan or tap for the full solution



Q.56 For (i) I^- , (ii) Cl^- , (iii) Br^- , the increasing order of nucleophilicity would be [AIPMT 2007]

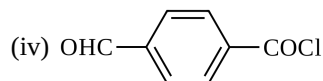
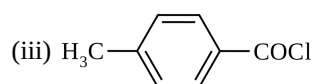
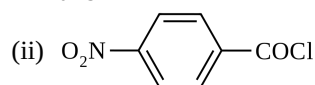
- (1) $\text{Cl}^- < \text{Br}^- < \text{I}^-$ (2) $\text{I}^- < \text{Cl}^- < \text{Br}^-$
 (3) $\text{Br}^- < \text{Cl}^- < \text{I}^-$ (4) $\text{I}^- < \text{Br}^- < \text{Cl}^-$

Scan or tap for the full solution



Q.57 Consider the following compounds

(i) $\text{C}_6\text{H}_5\text{COCl}$



The correct decreasing order of their reactivity towards hydrolysis is [AIPMT 2007]

- (1) (i) > (ii) > (iii) > (iv) (2) (iv) > (ii) > (i) > (iii)
 (3) (ii) > (iv) > (i) > (iii) (4) (ii) > (iv) > (iii) > (i)

Scan or tap for the full solution



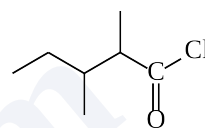
Q.58 The general molecular formula, which represents the homologous series of alkanols is [AIPMT 2006]

- (1) $\text{C}_n\text{H}_{2n}\text{O}$ (2) $\text{C}_n\text{H}_{2n}\text{O}_2$
 (3) $\text{C}_n\text{H}_{2n+2}\text{O}$ (4) $\text{C}_n\text{H}_{2n+1}\text{O}$

Scan or tap for the full solution



Q.59 The IUPAC name of



is

[AIPMT 2006]

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

Scan or tap for the full solution



Q.60 The general molecular formula, which represents the homologous series of alkanols is [AIPMT 2006]

- (1) $\text{C}_n\text{H}_{2n+2}\text{O}$ (2) $\text{C}_n\text{H}_{2n}\text{O}_2$
 (3) $\text{C}_n\text{H}_{2n}\text{O}$ (4) $\text{C}_n\text{H}_{2n+1}\text{O}$

Scan or tap for the full solution



Q.61 Names of some compounds are given. Which one is not in IUPAC system? [AIPMT 2005]

- (1)
- 3-Methyl-4-ethylheptane
- (2)
- 3-Methyl-2-butanol
- (3)
- 2-Ethyl-3-methylbut-1-ene
- (4) $\text{CH}_3-\text{C}\equiv\text{C}-\text{CH}(\text{CH}_3)_2$
 4-Methyl-2-pentyne

Scan or tap for the full solution



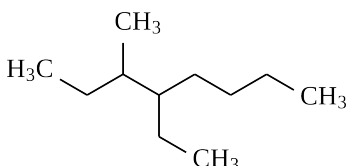
Q.62 Which amongst the following is the most stable carbocation? [AIPMT 2005]

- (1) CH_3^+ (2) CH_3CH_2^+
 (3) $\text{CH}_3-\text{CH}^+-\text{CH}_3$ (4) $\text{CH}_3-\text{C}^+(\text{CH}_3)_2$

Scan or tap for the full solution



Q.63 Name of the compound given below is [AIPMT 2003]



- (1) 4-ethyl-3-methyloctane
 (2) 3-methyl-4-ethyloctane
 (3) 2,3-diethylheptane
 (4) 5-ethyl-6-methyloctane

Scan or tap for the full solution



Q.64 Which one of the following orders of acid strength is correct? [AIPMT 2003]

- (1) $\text{RCOOH} > \text{ROH} > \text{HOH} > \text{HC}\equiv\text{CH}$
 (2) $\text{RCOOH} > \text{HOH} > \text{ROH} > \text{HC}\equiv\text{CH}$
 (3) $\text{RCOOH} > \text{HOH} > \text{HC}\equiv\text{CH} > \text{ROH}$
 (4) $\text{RCOOH} > \text{HC}\equiv\text{CH} > \text{HOH} > \text{ROH}$

Scan or tap for the full solution



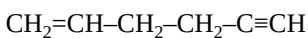
Q.65 Which one of the following is a free-radical substitution reaction? [AIPMT 2003]

- (1) $\text{C}_6\text{H}_6 + \text{Cl}_2 \xrightarrow{\text{Boiling}} \text{C}_6\text{H}_5\text{CH}_2\text{Cl}$
 (2) $\text{C}_6\text{H}_6 + \text{CH}_3\text{Cl} \xrightarrow{\text{anh. AlCl}_3} \text{C}_6\text{H}_5\text{CH}_3$
 (3) $\text{C}_6\text{H}_5\text{CH}_2\text{Cl} + \text{AgNO}_2 \longrightarrow \text{C}_6\text{H}_5\text{CH}_2\text{NO}_2$
 (4) $\text{CH}_3\text{CHO} + \text{HCN} \longrightarrow \text{CH}_3\text{CH}(\text{OH})\text{CN}$

Scan or tap for the full solution



Q.66 IUPAC name of the following is



[AIPMT 2002]

- (1) 1-hexyne-5-ene (2) 1,5-hexenyne
 (3) 1-hexene-5-yne (4) 1,5-hexynene

Scan or tap for the full solution



Q.67 $\text{CH}_2=\text{C}(\text{O}^-)-\text{CH}_3$ and $\text{CH}_2=\text{C}(\text{O}^-)-\text{CH}_3$

are

[AIPMT 2002]

- (1) resonating structures (2) tautomers
 (3) geometrical isomers (4) optical isomers

Scan or tap for the full solution



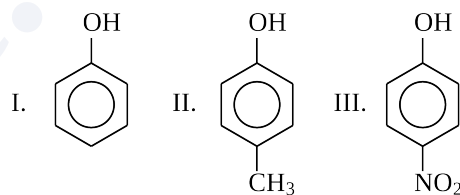
Q.68 The incorrect IUPAC name is [AIPMT 2001]

- (1) $\text{CH}_3-\text{C}(=\text{O})-\text{CH}(\text{CH}_3)-\text{CH}_3$
 2-methyl-3-butanone
 (2) $\text{CH}_3-\text{CH}(\text{CH}_3)-\text{CH}(\text{CH}_2\text{CH}_3)-\text{CH}_3$
 2,3-dimethylpentane
 (3) $\text{CH}_3-\text{C}\equiv\text{CCH}(\text{CH}_3)_2$
 4-methyl-2-pentyne
 (4) $\text{CH}_3\text{CH}(\text{Cl})\text{CH}(\text{Br})\text{CH}_3$
 2-bromo-3-chlorobutane

Scan or tap for the full solution



Q.69 The correct acidic order of the following is [AIPMT 2001]



- (1) I > II > III (2) III > I > II
 (3) II > III > I (4) I > III > II

Scan or tap for the full solution



Q.70 Which is maximum stable? [AIPMT 2000]

- (1) 1-Butene
 (2) cis-2-Butene
 (3) trans-2-Butene
 (4) All have same stability.

Scan or tap for the full solution



Q.71 Polarisation in acrolein can be described as [AIPMT 2000]

- (1) $\text{CH}_2=\text{CH}-\overset{+\delta}{\text{CHO}}$ (2) $\text{CH}_2=\overset{-\delta}{\text{CH}}-\overset{+\delta}{\text{CHO}}$
 (3) $\overset{-\delta}{\text{CH}_2}=\overset{+\delta}{\text{CH}}-\text{CHO}$ (4) $\overset{+\delta}{\text{CH}_2}=\text{CH}-\overset{-\delta}{\text{CHO}}$

Scan or tap for the full solution



ANSWER KEY

Ques.	1	2	3	4	5	6	7
Ans.	1	2	1	3	4	3	1
Ques.	8	9	10	11	12	13	14
Ans.	3	2	4	4	1	2	1
Ques.	15	16	17	18	19	20	21
Ans.	1	3	3	1, 2	3	2	3
Ques.	22	23	24	25	26	27	28
Ans.	4	1	4	2	1	4	4
Ques.	29	30	31	32	33	34	35
Ans.	4	1	1	3	4	4	2
Ques.	36	37	38	39	40	41	42
Ans.	3	3	4	3	1	1	2
Ques.	43	44	45	46	47	48	49
Ans.	4	1	2	1	3	2	2
Ques.	50	51	52	53	54	55	56
Ans.	3	4	2	1	3	4	1
Ques.	57	58	59	60	61	62	63
Ans.	3	3	3	1	1	4	1
Ques.	64	65	66	67	68	69	70
Ans.	2	1	3	1	1	2	3
Ques.	71						
Ans.	4						