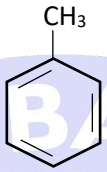
Chapter 01 Classification and Nomenclature

Practice Section-01

Q.1 How many 1°, 2° & 3°H atoms are present in  [Toluene] respectively:-

(1) 3, 0, 5 (2) 3, 5, 0 (3) 4, 3, 0 (4) 0, 5, 3

Q.2 What is hybridization of each carbon atom in following compound

$HC \equiv C - CH = CH - CH_3$

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

Q.3 Which one is not correct for a homologous series –

(1) All members have a general formula

(2) All members have same chemical properties

(3) All members have same physical properties

(4) All members have same functional group

Q.4 Which of the following is the pair of homocyclic & heterocyclic compound -

(1) cyclopropane and cyclohexane (2) cycloethane and oxyrane

(3) pyridine and thiophene (4) cyclo pentane and furan

Q.5 How many 1° carbon atom will be present in a simplest hydrocarbon having two 3° & one 2° carbon atom?

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

Q.6 The formula C_nH_{2n-2} shows -

(1) Alkene & Alkyne (2) Alkyne & Alkadiyne (3) Alkane & Alkadiene (4) Alkyne & Alkadiene

Q.7 In which of the following tert. carbon is absent -

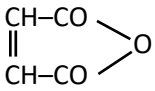
(1) Iso octane (2) Tri pentane (3) Isopropyl amine (4) Isopentane

Q.8 Which compound has alkyne group

(1) C_7H_{14} (2) $C_{10}H_{22}$ (3) C_9H_{16} (4) $C_{16}H_{32}$

Q.9 Which of the following is not a hetero cyclic compound

(1) Thiophene (2) Furan (3) Benzene (4) Pyridine

Q.10 In structure  , how many hetero atoms are present?

(1) 1 (2) 2 (3) 3 (4) 4

Q.11 Which of the following is incorrect name:-

(1) Isopropyl (2) Ter. butyl (3) Neo butyl (4) Neo pentyl

Q.12 Which of the following is secondary radical:-

(1) CH_2=CH– (2) $(CH_3)_3C$– (3) C_6H_5– (4) CH_3–$(CH_2)_2$–CH_2–

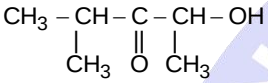
Practice Section-02

Q.1 The IUPAC name of the compound
$CH_3CH = CHCH = CHC \equiv CCH_3$ is -
(1) 4, 6–octadien-2-yne (2) 2, 4–octadien -6-yne (3) 2–octyn - 4, 6-diene (4) 6-octyn-2, 4-diene

Q.2 The IUPAC name of compound $(CH_3)_3C.CH_2CONH_2$ is : –
(1) 1, 1,1- trimethyl propanamide (2) 3, 3, 3-trimethyl propanamide
(3) 3, 3-dimethyl butanamide (4) 3-t-butyl propanamide

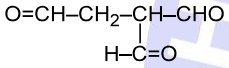
Q.3 IUPAC name of four carbon 3° amine is-
(1) Dimethyl methane amine (2) N, N-dimethyl ethane amine
(3) N-ethyl N-methyl methane amine (4) Butane amine

Q.4 The IUPAC name of-



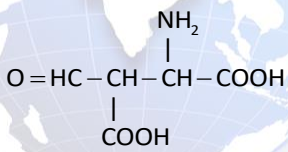
(1) 4 - methyl -2-hydroxy-3- pentanone (2) 2-hydroxy -4- methyl-3- pentanone
(3) both are correct (4) None

Q.5 The correct IUPAC name of the following compound is -



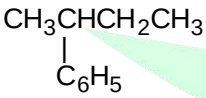
(1) 1,1-diformyl propanal (2) 3- formyl butanedial
(3) 2-formyl butanedial (4) 1,1,2-ethane tricarbaldehyde

Q.6 The IUPAC name of the structure is -



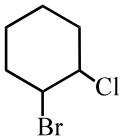
(1) 3-amino-2-formyl butane-1, 4-dioic acid (2) 3-amino -2,3-dicarboxy propanal
(3) 2-amino -3- formyl butane -1, 4-dioic acid (4) 1-amino -2-formyl succinic acid

Q.7 The IUPAC name of the compound



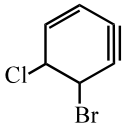
(1) 2-cyclohexyl butane (2) 2-phenyl butane (3) 3-cyclohexyl butane (4) 3-phenyl butane

Q.8 The IUPAC name of the compound is -



(1) 1-chloro-2-bromocylohexane (2) 1, 2-bromochlorocyclohexane
(3) 4-bromo-3-chlorocyclohexane (4) 1-bromo-2-chlorocyclohexane

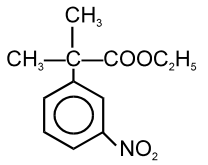
Q.9 The IUPAC name of the given structure is -



(1) 5-Bromo-6-chloro-1-cyclohexen-3-yne (2) 6-Bromo-5-chlorocyclohexen-3-yne

(3) 6-Bromo-5-chloro-3-cyclohexen-1-yne (4) 4-Bromo-3-chloro-1-cylohexen-5-yne

Q.10 IUPAC name of the compound



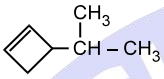
is -

(1) ethyl-2-methyl-2-(m-nitro phenyl) propanoate

(2) ethyl-2-methyl-2-(o-nitro phenyl) propanoate

(3) ethyl-2-methyl-2-(3-nitro phenyl) propanoate

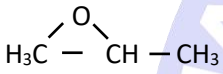
(4) ethyl-2-methyl-2-(3-nitro phenyl) propanoic acid

Q.11 The IUPAC name of  is -

(1) 2-cyclobutenylpropane (2) 2-(2-cyclobutenyl) propane

(3) 1-(1-methylethyl) cyclobutene (4) 3-(1-methylethyl) cyclobutene

Q.12 Select the correct name of the following compound.



(1) 1,2–epoxy propane (2) 2,2-epoxy propane

(3) Epoxy propane (4) None of the above

ANSWER KEY

PRACTICE SECTION-01

Que.	1	2	3	4	5	6	7	8	9	10	11	12	
Ans:	2	2	3	4	2	4	3	3	3	1	3	3	

PRACTICE SECTION-02

Que.	1	2	3	4	5	6	7	8	9	10	11	12	
Ans:	2	3	2	2	4	3	2	4	2	1	3	1	