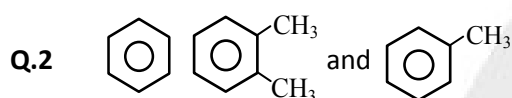


JEE CHEMISTRY

Topic: Nomenclature

Q.1 In unsaturated compound have –

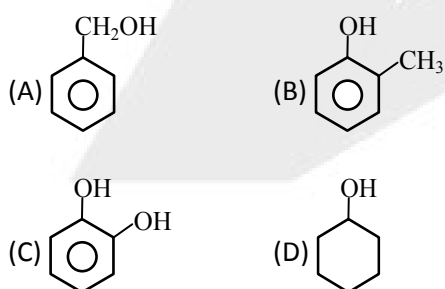
- (A) Carbon - carbon double bond
- (B) Carbon - carbon triple bond
- (C) Carbon - carbon double and triple bond
- (D) Carbon - oxygen double bond



Number of secondary carbon atoms present in the above compounds are respectively :

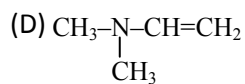
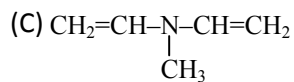
- (A) 6, 4, 5
- (B) 4, 5, 6
- (C) 5, 4, 6
- (D) 6, 2, 1

Q.3 The homologues of phenol is -



Q.4 Ethyl methyl vinyl amine has the structure -

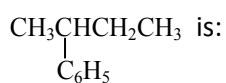
- (A) $\text{CH}_3\text{CH}_2-\underset{\text{CH}_3}{\text{N}}-\text{CH}_2\text{CH}=\text{CH}_2$
- (B) $\text{CH}_3\text{CH}_2-\underset{\text{CH}_3}{\text{N}}-\text{CH}=\text{CH}_2$



Q.5 The derived name of butenyne is –

- (A) Vinylacetylene (B) Ethenylacetylene
(C) Ethenyl ethyne (D) Ethynyl ethene

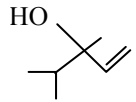
Q.6 The IUPAC name of the compound



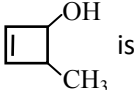
- (A) 2-cyclohexyl butane
(B) 2-phenyl butane
(C) 3-cyclohexyl butane
(D) 3-phenyl butane

Q.7 IUPAC name of  is :

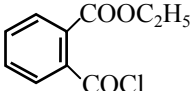
- (A) But-2-ene-2,3-diol
(B) Pent-2-ene-2,3-diol
(C) 2-methylbut-2-ene-2,3-diol
(D) Pent-3-ene-3,4-diol

Q.8  has the IUPAC name :

- (A) 3, 4-Dimethyl-1-penten-3-ol
(B) Isopropyl-3-methyl vinyl carbinol
(C) 2, 3-Dimethyl-4-penten-3-ol
(D) None of the above

Q.9 The IUPAC name of  is

- (A) 3-Methyl cyclo-1-buten-2-ol
- (B) 4-Methyl cyclo-2-buten-1-ol
- (C) 4-Methyl cyclo-1-buten-3-ol
- (D) 2-Methyl cyclo-3-buten-1-ol.

Q.10 The IUPAC name of  is :

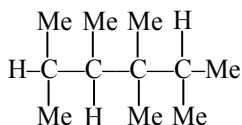
- (A) 2-chlorocarbonyl ethyl benzene carboxylate
- (B) 2-carboxyethyl benzoyl chloride
- (C) ethyl-2-(chlorocarbonyl) benzene carboxylate
- (D) ethyl-1-(chlorocarbonyl) benzene carboxylate

Q.11 The IUPAC name of compound is -



- (A) Spiro [5.3] nonane
- (B) Spiro [3.5] nonane
- (C) Spiro [5.4] nonane
- (D) Spiro [4.5] nonane

Q.12 Number of 3° carbon and 1° hydrogen respectively in the following structure are :



- (A) 3, 21
- (B) 3, 23
- (C) 2, 18
- (D) 3, 18

Q.13 The I.U.P.A.C. name of following structure is $[\text{CH}_3\text{CH}(\text{CH}_3)]_2\text{C}(\text{CH}_2\text{CH}_3)\text{C}(\text{CH}_3)\text{C}(\text{CH}_2\text{CH}_3)_2$

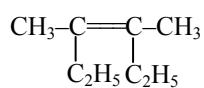
- (A) 3,5-diethyl-5-[1-methylethyl]-4,6-dimethyl-3-heptene

(B) 3,5-diethyl-5-isopropyl-4,6-dimethyl-2-heptene

(C) 3,5-diethyl-5-propyl-4,6-dimethyl-3-heptene

(D) None of these

Q.14 The correct IUPAC name of :

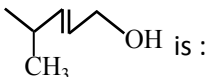


(A) 1, 2-diethyl butane

(B) 2-ethyl 3-methylpentane

(C) 3, 4-dimethyl-3-hexene

(D) none is correct

Q.15 IUPAC name of  is :

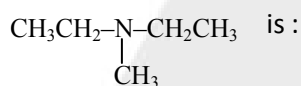
(A) 5-methyl hexanol

(B) 2-methyl hexanol

(C) 2-methyl hex-3-enol

(D) 4-methyl pent-2-en-1-ol

Q.16 The IUPAC name of



(A) N-methyl-N-ethylethyl amine

(B) diethyl methyl amine

(C) N-ethyl-N-methyl ethan amine

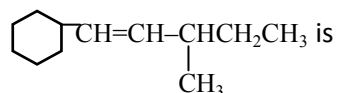
(D) methyl diethyl amine

Q.17 The IUPAC name of $\text{C}_6\text{H}_5\text{CH}=\text{CH}-\text{COOH}$ is :

(A) cinnamic acid

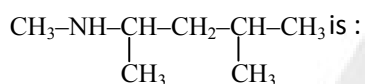
- (B) 1-phenyl-2-carboxy ethene
- (C) 3-phenyl prop-2-enoic acid
- (D) dihydroxy-3-phenyl propionic acid

Q.18 The IUPAC name of



- (A) 1-cyclohexyl-3-methyl-1-pentene
- (B) 3-methyl-5-cyclohexyl-pent-ene
- (C) 1-cyclohexyl-3-ethyl-but-1-ene
- (D) 1-cyclohexyl-3,4-dimethyl-but-1-ene

Q.19 The IUPAC name of

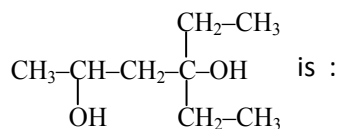


- (A) 2-(N-methyl amino) -4-methyl pentane
- (B) N, 4-dimethyl pentan-2-amine
- (C) 2-(N-methyl amino)-3-isopropyl propane
- (D) 2-(N-methyl amino)-1,4, 4-trimethyl butane

Q.20 The IUPAC name of $[(\text{CH}_3)_3\text{C}]_4\text{C}$ is -

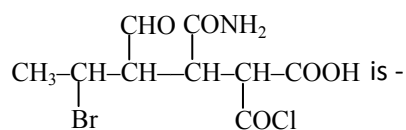
- (A) tetra-t-butyl methane
- (B) 3, 3-bis(1, 1-dimethyl ethyl) -2, 2, 4, 4-tetramethyl pentane
- (C) tetra kis (1, 1-diemthyl ethyl) methane
- (D) tetraneobutyl methane

Q.21 The IUPAC name of the given compound

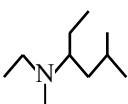


- (A) 2, 4 - Hexanediol
 (B) 4-Ethyl-2,4-hexanediol
 (C) 2,4-Hexanediol-2-ethyl
 (D) 3, 3 -Diethyl-1, 3-butanediol

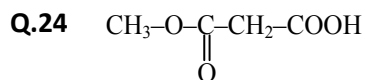
Q.22 The IUPAC name of the given compound



- (A) 2-Bromo-4-carbamoyl-5-chloroformyl-3-formylhexanoic acid
 (B) 5-Bromo-3-carbamoyl-2-chloroformyl-4-formylhexanoic acid
 (C) 4-Formyl-2-chloroformyl-5-carbamoyl-5-bromohexanoic acid
 (D) 2-Chloroformyl-3-carbamoyl-4-formyl-5-bromohexanoic acid

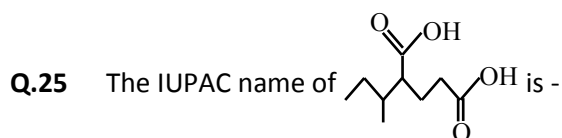
Q.23 The IUPAC name of  is -

- (A) N-ethyl-N, 2-dimethyl-4-hexanamine
 (B) N, 4-diethyl-N, 2-dimethyl-4-butanamine
 (C) N-ethyl-N, 5-dimethyl-3-hexanamine
 (D) 3-(ethylmethylamino)-5-methylhexane

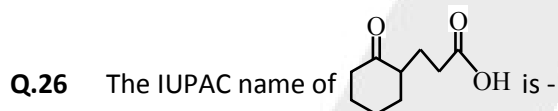


The correct systematic name of the above compound is :

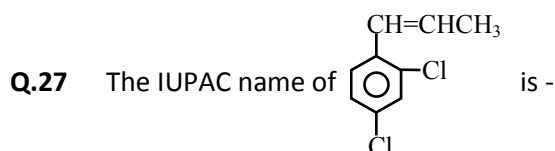
- (A) 2-acetoxy ethanoic acid
- (B) 2-methoxy carbonyl ethanoic acid
- (C) 3-methoxy formyl ethanoic acid
- (D) 2-methoxy formyl acetic acid



- (A) 4-carboxy-5-methylheptanoic acid
- (B) 1, 3-dicarboxy-4methylhexane
- (C) 4-(1-methylpropyl)-1, 5-pentanedioic acid
- (D) 2-(1-methylpropyl)-1, 5-pentanedioic acid



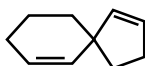
- (A) 2-carboxyethylcyclohexanone
- (B) 3-(2-oxocyclohexyl) propanoic acid
- (C) cyclohexanone-2-propanoic acid
- (D) 2-propanoic cyclohexanone



- (A) 1-(2, 4-dichlorophenyl) propene
- (B) 2, 4-dichloro-1-(1-propenyl) benzene
- (C) 1, 3-dichloro-4-propenylbenzene

(D) 3-(2, 4-dichlorophenyl) propene

Q.28 Write the correct IUPAC name of the following spiro compound :



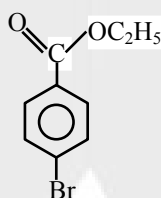
(A) Spiro [4.5] deca-1,7-di-ene

(B) Spiro [4.5] deca-2,7-di-ene

(C) Spiro [4.5] deca-1,6-di-ene

(D) Spiro [4.5] nona-1,6-di-ene

Q.29 Give IUPAC name of the following :



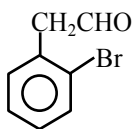
(A) Ethyl-1-bromo 4-benzoate

(B) Ethyl-4-bromobenzene carboxylate

(C) Bromo benzoate

(D) Bromo benzene ester

Q.30 Give IUPAC name of the following :



(A) 2-(2'-Bromophenyl)ethanal

(B) 2-Bromo phenyl ethanal

(C) 2-Bromo benzene ethanal

(D) Bromo benzene carbaldehyde

ANSWER KEY

Que.	1	2	3	4	5	6	7	8	9	10
Ans.	C	A	B	B	A	B	B	A	B	C
Que.	11	12	13	14	15	16	17	18	19	20
Ans.	B	A	A	C	D	C	C	A	B	B
Que.	21	22	23	24	25	26	27	28	29	30
Ans.	B	B	C	B	D	B	A	C	B	A

