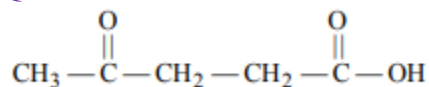


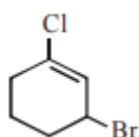
Classification and Nomenclature of Organic Compounds

Q.1. IUPAC name of the following compound is



- a) 1-hydroxypentane-1, 4-dione
- b) 1,4-dioxopentanol
- c) 1-carboxybutan-3-one
- d) 4-oxopentanoic acid

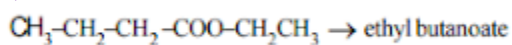
Q.2. . The IUPAC name of the compound shown below is :



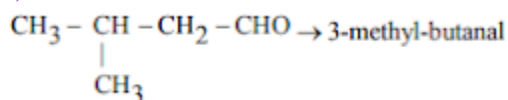
- a) 3-bromo-1-chlorocyclohexene
- b) 1-bromo-3-chlorocyclohexene
- c) 2-bromo-6-chlorocyclohex-1-ene
- d) 6-bromo-2-chlorocyclohexene

Q.3. Which of the following compounds has wrong IUPAC name?

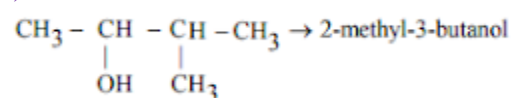
a)



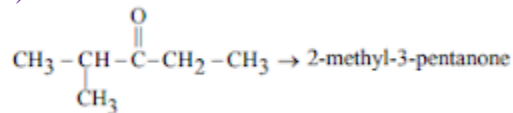
b)



c)



d)



Q.4. The correct name for the following hydrocarbon is



- a) Tricyclo [4.1.0] heptane
- b) Bicyclo [5.2.1] heptane
- c) Bicyclo [4.1.0] heptane
- d) Bicyclo [4.1.0] hexane

Q.5. The compound which has one isopropyl group is

- a) 2, 2, 3, 3 - Tetramethylpentane
- b) 2, 2 - Dimethylpentane
- c) 2, 2, 3- Trimethylpentane
- d) 2- Methylpentane

Q.6. Which of the following statements is false for isopentane ?

- a) It has three CH_3 groups
- b) It has one CH_2 group
- c) It has one CH group
- d) It has a carbon which is not bonded to hydrogen

Q.7. The correct structure of trans-2 hexenal is

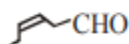
a)



b)



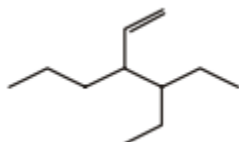
c)



d)



Q.8. The correct IUPAC name of the compound is



- a) 4-Ethyl-3-propyl hex-1-ene
- b) 3-Ethyl-4-ethenyl heptane
- c) 3-Ethyl-4-propyl hex-1-ene
- d) 3-(1-ethylpropyl) hex-1-ene

Q.9. The general formula $\text{C}_n\text{H}_{2n}\text{O}_2$ could be for open chain

- a) diketones
- b) diols
- c) dialdehydes
- d) carboxylic acids

Q.10. Which of the following will have a meso isomer also?

- a) 2, 3- Dichloropentane
- b) 2, 3-Dichlorobutane
- c) 2-Chlorobutane
- d) 2-Hydroxypropanoic acid

Q.11. The IUPAC name of $\text{CH}_3\text{OC}_2\text{H}_5$ is

- a) Methyl ethyl ether
- b) Ethyl methyl ether
- c) Methoxyethane
- d) Ethoxymethane

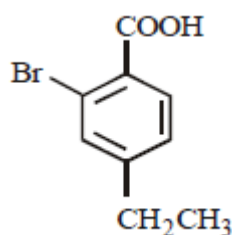
Q.12. The IUPAC name of tert-butylchloride is

- a) 4-chlorobutane
- b) 2-chlorobutane
- c) 1-chloro-3-methylpropane
- d) 2-chloro-2-methylpropane

Q.13. The correct decreasing order of priority for the functional groups of organic compounds in the IUPAC system of nomenclature is (in decreasing order)

- a) COOH , $-\text{SO}_3\text{H}$, $-\text{CONH}_2$, $-\text{CHO}$
- b) SO_3H , $-\text{COOH}$, $-\text{CONH}_2$, $-\text{CHO}$
- c) CHO , $-\text{COOH}$, $-\text{SO}_3\text{H}$, $-\text{CONH}_2$
- d) CONH_2 , $-\text{CHO}$, $-\text{SO}_3\text{H}$, $-\text{COOH}$

Q.14. What is the IUPAC name of the following compound ?



- a) 6 – bromo – 4 – ethylbenzene carboxylic acid
- b) 2 – bromo – 4 – ethylbenzene carboxylic acid
- c) Ortho – bromo – paraethyl benzoic acid
- d) 4 – bromo – 3 – ethyl benzoic acid

Q.15.The correct name of the compound (IUPAC)



- a) D. D. T.
- b) Gammexane
- c) p, p'-dichloro diphenyl trichloroethane
- d) 1, 1, 1-trichloro-2, 2-bis (4-Chlorophenyl) ethane

Q.16.The IUPAC name of $\text{CH}_3\text{COCH}(\text{CH}_3)_2$ is

- a) 2-methyl-3-butanone
- b) 4-methylisopropyl ketone
- c) 3-methyl-2-butanone
- d) Isopropylmethyl ketone

Q.17.An organic compound X (molecular formula $\text{C}_6\text{H}_7\text{O}_2\text{N}$) has six carbon atoms in a ring system, two double bonds and a nitro group as substituent , X is

- a) Homocyclic but not aromatic
- b) Aromatic but not homocyclic
- c) Homocyclic and aromatic
- d) Heterocyclic and aromatic

Q.18.Vinylcarbinol is

- a) $\text{HO}-\text{CH}_2-\text{CH}=\text{CH}_2$
- b) $\text{CH}_3\text{C}(\text{OH})=\text{CH}_2$
- c) $\text{CH}_3-\text{CH}=\text{CH}-\text{OH}$
- d) $\text{CH}_3-\text{C}(\text{CH}_2\text{OH})=\text{CH}_2$

Q.19.The IUPAC name of acraldehyde is

- a) Prop-2-en-1-al
- b) Propenylaldehyde
- c) But-2-en-1-al
- d) Propenal

Q.20.The IUPAC name of $\text{CH}_3\text{CH}=\text{CHCOOC}_2\text{H}_5$ is

- a) Ethyl but-1-enoate
- b) Ethyl but-2-enoate
- c) Ethyl prop-2-enoate
- d) None of these

Q.21.The systematic name of $(\text{CH}_3)_2\text{CH}-\text{COOH}$ is

- a) 2- propanoic acid
- b) isobutanoic acid
- c) 2- methylpropanoic acid
- d) 2- methylbutanoic acid

Q.22. Which of the following IUPAC names is correct?

- a) 2-Methyl-3-ethylpentane
- b) 3-Ethyl-2-methylpentane
- c) 2-Ethyl-3-methylpentane
- d) 3-Methyl-2-ethylpentane

Q.23. Which of the following represents the correct IUPAC name of the compound



- a) Allyl chloride
- b) 1-chloro-3-propene
- c) 3-chloro-1-propene
- d) Vinyl chloride

Q.24. IUPAC name of $\text{CH}_2 = \text{CHCN}$ is

- a) Ethenitrile
- b) Vinyl cyanide
- c) Cyanoethene
- d) 2-propenenitrile

Q.25. The IUPAC name of neopentane is

- a) 2, 2-dimethylpropane
- b) 2-methylpropane
- c) 2, 2-dimethylbutane
- d) 2-methylbutane