

CHEMISTRY

ALLEN

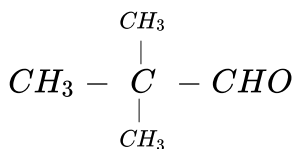
IUPAC NOMENCLATURE

Solved Example

1. Why are organic compound found in larger no? or Why are they studied as a separate subject ?

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2. The trivial name of the following compounds is :



- A. Pivaldehyde
- B. Trimethyl acetaldehyde
- C. α, α, α – trimethylacetaldehyde
- D. t-butyl formaldehyde

Answer: A

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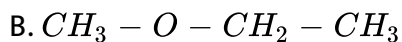
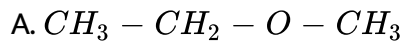
3. The common name of the compounds $CH_2 = CH - CH_2 - NH_2$ is

- A. Vinyl amine
- B. Allyl amine
- C. Divinyl amine
- D. Diallyl amine

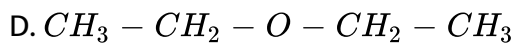
Answer: B

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4. Ethyl methyl ether is :



C. Both A & B



Answer: C

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5. Make the structure of following organic compounds-

1. Isopropylidene Bromide

2. Isobutylene glycol

3. Trimethylene glycol

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6. Common name of the compound : $CH_3 - CH = CH - \overset{O}{\parallel}C - OH$ is -

- A. Crotonic acid
- B. Acrylic acid
- C. Allylic acid
- D. None

Answer: A



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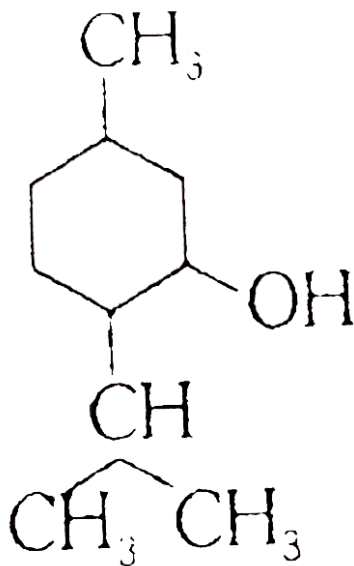
7. Common name of compound : $CH_2 = CH - \overset{O}{\parallel}C - H$

- A. Croton aldehyde
- B. Acryl aldehyde
- C. Propion aldehyde
- D. Butyr aldehyde

Answer: B

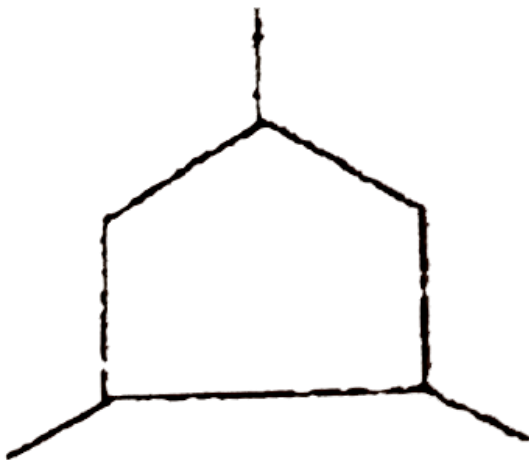
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8. Write the IUPAC name of the compound



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9. The correct IUPAC of the following compound is -



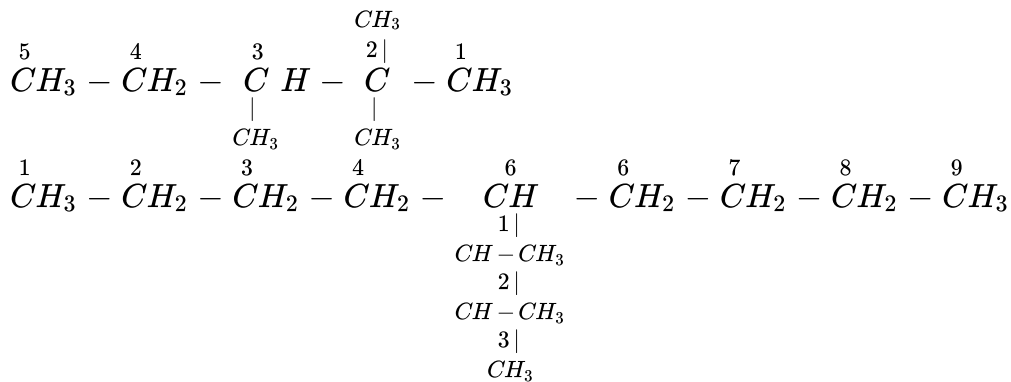
- A. 1, 3, 4-trimethyl cyclopentane
- B. 1, 3, 5-trimethyl cyclopentane
- C. 1, 3, 5-trimethyl cyclobutane
- D. 1, 2, 4-trimethyl cyclopentane

Answer: D



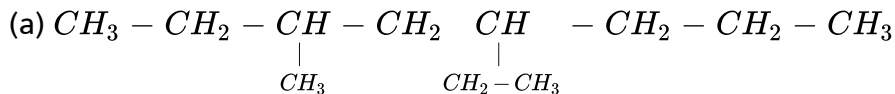
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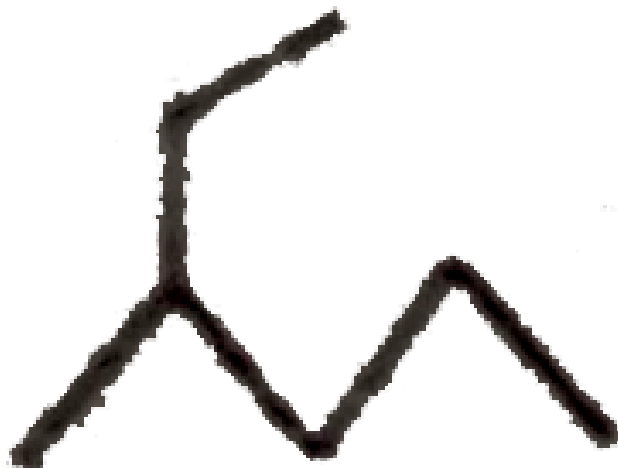
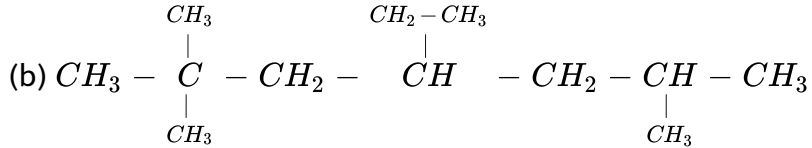
10. Write the IUPAC name of the following compound.



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11. Write IUPAC name of the following compound





(c)

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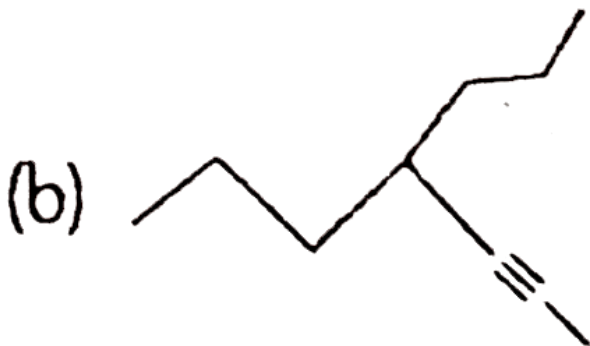
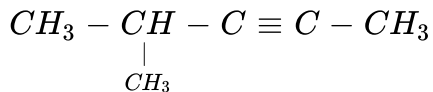
12. Draw the bond line structure of the following compound.

(a) 2-Methyl-3-heptene "

(b) 2,6-Dimethyl hept -1, 5-diene

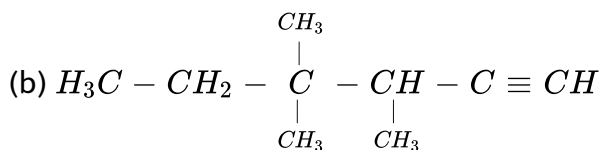
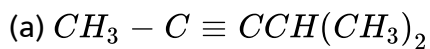
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13. Write the IUPAC name of the following compound :



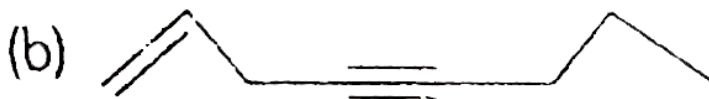
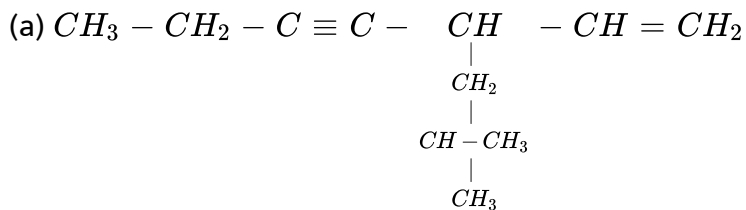
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14. Write the IUPAC name of the following compound :



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15. Write IUPAC name of the following compound



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16. Write IUPAC name of the following compounds.



A.

B.

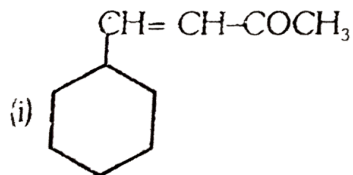
C.

D.

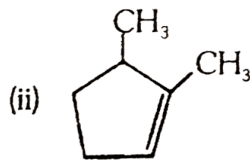
Answer:

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17. Write the IUPAC name of the following compound :

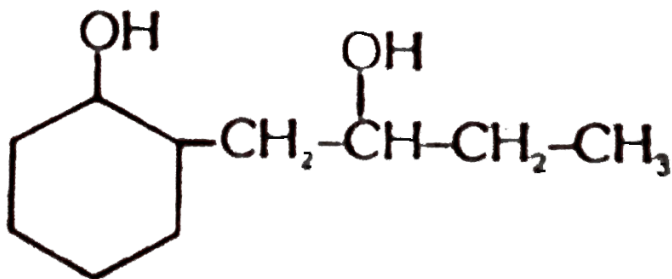


(a)



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18. The correct IUPAC name of the following compound is :



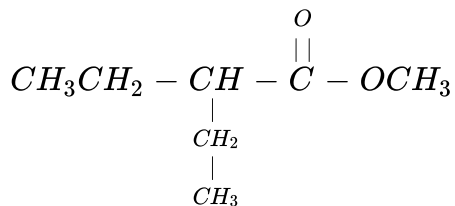
- A. 1-(2-hydroxy cyclohexane) butan-2-ol
- B. 4-(2-hydroxy cyclohexane) butan -3-ol
- C. 1-(2-hydroxy but-1-yl) cyclohexan-2-ol
- D. 2-(2-hydroxy butyl) cyclohexan-1-ol

Answer: D



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19. Write IUPAC name of the following compound : (i)

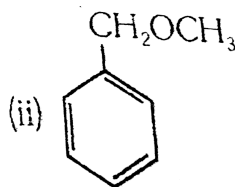
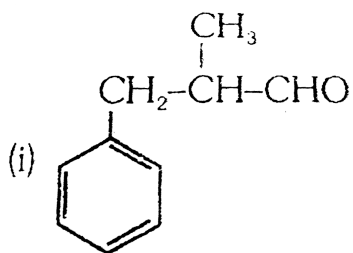


(ii) $(\text{CH}_3)_3\text{COH}$

(iii) $\begin{array}{c} \text{CH}_3 - \text{CH} - \text{CH}_2 - \text{COOH} \\ | \\ \text{CH}_3 \end{array}$

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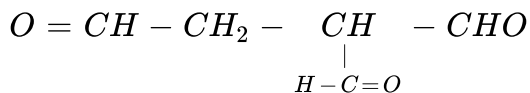
20. Write IUPAC name of the aromatic compounds



(i)

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21. The correct IUPAC name of the following compound is

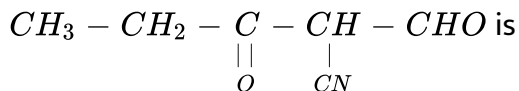


- A. 1,1-diformyl propanal
- B. 3-formyl butanedial
- C. 2-formyl butanedial
- D. 1,1,3-ethane tricarbaldehyde

Answer: C

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22. The correct IUPAC name of compound



- A. 2-cyano-3-oxopentanal
- B. 2-formyl-3-oxopentanenitrile

C. 2-cyano-1,3-pentanedione

D. 1,3-dioxo-2-cyanopentane

Answer: B

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23. IUPAC name of $CH_3 - \underset{\begin{array}{c} || \\ O \end{array}}{C} - \underset{\begin{array}{c} | \\ C=O \\ | \\ CH_3 \end{array}}{CH} - \underset{\begin{array}{c} || \\ O \end{array}}{C} - OCH_3$

A. Methyl-2, 2-acetyl ethanoate

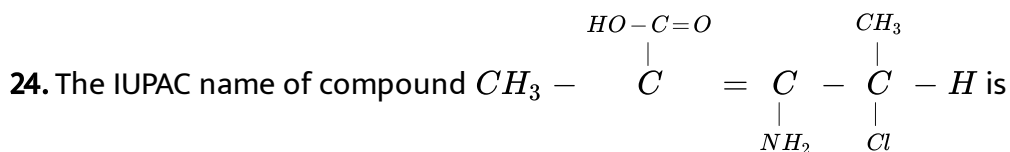
B. 2,2-acetyl-1-methoxy ethanone

C. Methyl-2-acetyl-3-oxobutanoate

D. none of these

Answer: C

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- A. 2-amino-3-chloro-2-methyl-2-pentenoic acid
- B. 3-amino-4-chloro-2-methyl-2-pentenoic acid
- C. 4-amino-3-chloro-2-methyl-2-pentenoic acid
- D. none of these

Answer: B



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25. How many carbons are in simplest alkyne having two side chains ?

- A. 5
- B. 6
- C. 7
- D. 8

Answer: B

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26. The compound name trichloroethene is

A. Westron

B. Perclene

C. Westrosol

D. Orlone

Answer: C

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27. The type of unsaturation present in crotonic acid is -

A. α, β

B. β, α

C. α, α

D. β, β

Answer: A

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28. IUPAC name of compound $CH_3CH_2OC(=O)CH_2CH_2CH_3$ is

A. Propyl propanoate

B. Ethyl butanoate

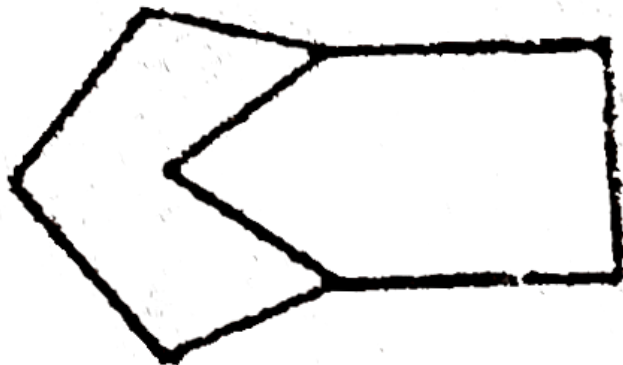
C. Propyl butanoate

D. Ethyl propanoate

Answer: B

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29. The IUPAC name of compound given below is



A. Bicyclo [3.2.1] octane

B. Bicyclo [3.2.2]octane

C. Spiro[2.2]octane

D. None of these

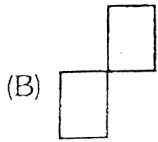
Answer: A

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30. The structure of spiro [3.3] heptane is



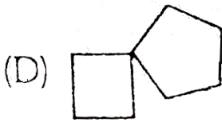
A.



B.



C.



D.

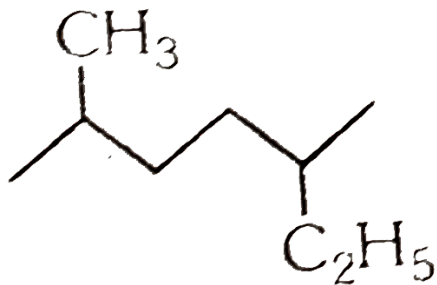
Answer: D



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Exercise 01

1. IUPAC name of the hydrogen (A) is :



- A. 2-ethyl5-methylhexane
- B. 5-ethyl-2-methylhexane
- C. 2,5-dimethylheptane
- D. 5-ethyl-2,5-dimethylpentane

Answer: C

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2. IUPAC name of neopentyl group is :

- A. 2,2-dimethylbutyl

B. 2,2-dimethylpropyl

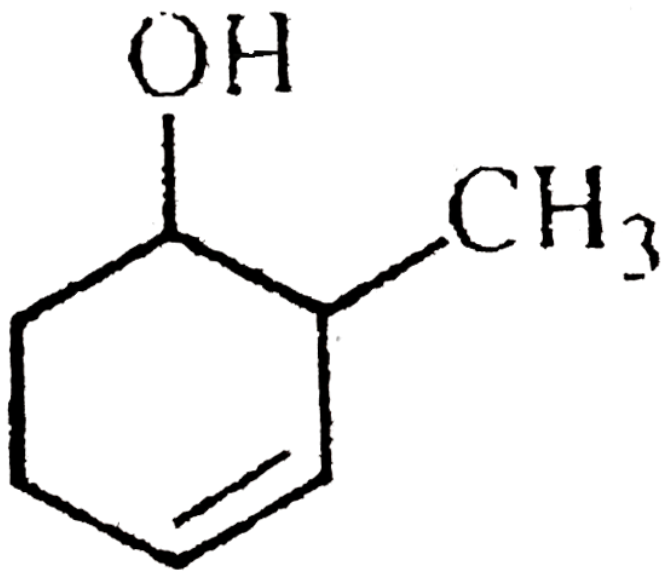
C. 1,1-dimethylbutyl

D. 1,1-dimethylpropyl

Answer: B

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3. IUPAC name of the following compound is :



- A. 2-methyl-3-cyclohexenol
- B. 3-methyl-1-cyclohexen-4-ol
- C. 4-hydroxy-3-methyl-1-cyclohexene
- D. 2-hydroxy-1-methylcyclohexene

Answer: A

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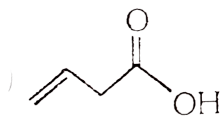
4. Which compound is tertiary alcohol ?

- A. 1-propanol
- B. 2-methyl-1-hexanol
- C. 3-methyl-2-hexanol
- D. 2-methyl-2-hexanol

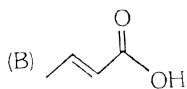
Answer: D

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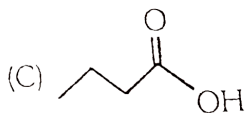
5. 3-Butenoic acid (for But-3-enoic acid) is represented as :



A.



B.



C.

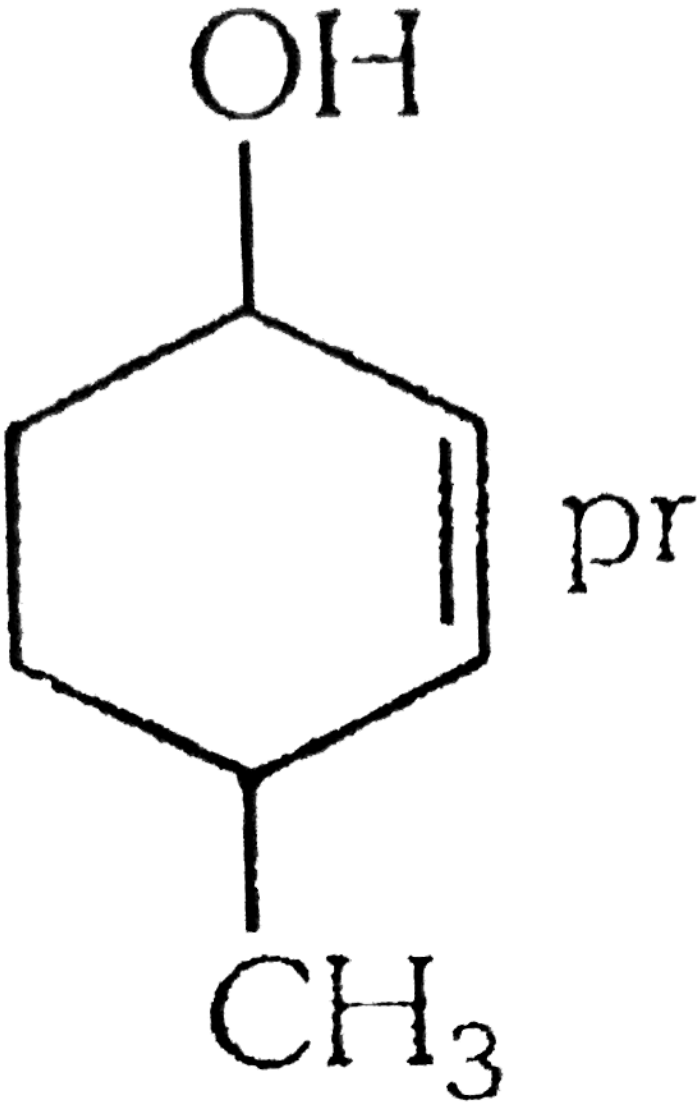
D. none of these

Answer: A



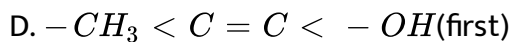
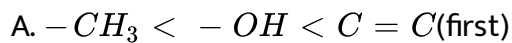
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6. In the nomenclature of _____,



_____, priority order

is -



Answer: D

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7. $C_4H_8O_2$ represents :-

A. An acid only

B. An ester only

C. An ketone only

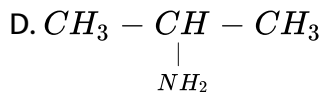
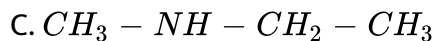
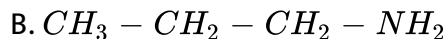
D. An acid and an ester also

Answer: D



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8. The higher homologue of dimethylamine ($CH_3 - NH - CH_3$) has the structure :-



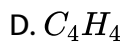
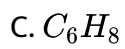
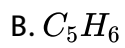
Answer: C



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9. The third member of the family of alkenynes has the molecular formula :-



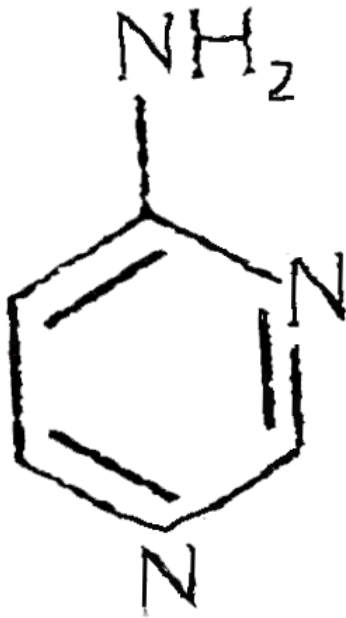


Answer: C



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10. The hetero atoms present in the following compound is/are :



A. 2

B. 3

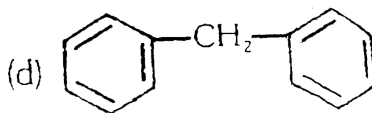
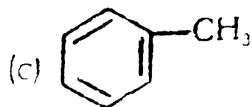
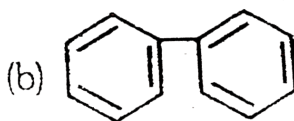
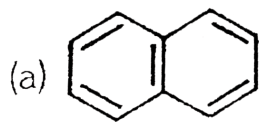
C. 1

D. 4

Answer: A

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11. Which of the following have only 2° H-atom



A. only a and b

B. a, b and d

C. a, c and d

D. All of them

Answer: B

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12. Common name of $CH_2 = CH - CN$ is :-

- (a) acrylonitrile
- (b) vinyl cyanide
- (c) allyl cyanide
- (d) allyl nitrile

A. a, b and d

B. a and b

C. only b

D. a, b and c

Answer: B

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13. Which of the following name is correct :-

A. 4-Isopropyl-3-methyl hexane

B. 2-Ethyl-3-isopropyl pentane

C. 3-Isopropyl-4-methyl hexane

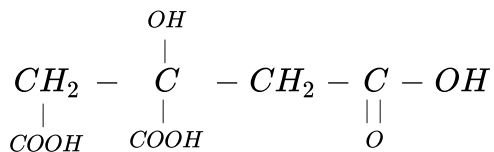
D. 3-Ethyl-2,4-dimethyl hexane

Answer: D



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14. The correct systematic IUPAC name of the given compound is :



A. 3-Carboxy-3-hydroxy butane dioic acid

B. 2-Hydroxy propane-1,2,3-tricarboxylic acid

C. 3-Hydroxy butane dioic acid

D. 2-Bis(carboxymethyl)-2-hydroxy ethanoic acid

Answer: B

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15. The IUPAC name of $CH_3 - CH_2 - NH - CH_3$ is :-

- A. Methyl ethyl amine
- B. 1-methyl amino ethane
- C. N-methyl ethanamine
- D. N-ethyl methanamine

Answer: C

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16. The correct IUPAC name from the incorrect name 4-Amino-3-hydroxy-2-butene is :-

- A. 1-Amino-2-hydroxy-2-butene
- B. 4-Amino-2-buten-3-ol
- C. 1-Amino-2-buten-2-ol
- D. 1-Amino-2-butenol

Answer: C



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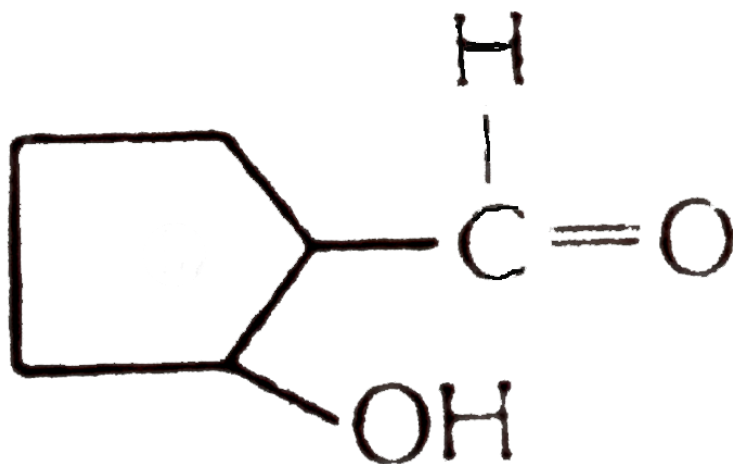
17. The correct name of 2-chlorobutan-3-ol is

- A. 3-Chloro-2-hydroxy butane
- B. 3-Chloro-2-butanol
- C. 3-Hydroxy-2-chloro butane
- D. 2-Chloro-3-hydroxy butane

Answer: B

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18. The correct name for

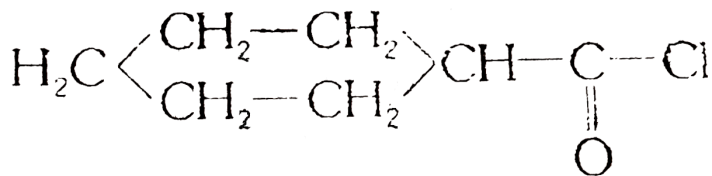


- A. 2-Hydroxy cyclopentanal
- B. 2-Formyl-1-hydroxy cyclopentane
- C. 2-Hydroxy cyclopentane carbaldehyde
- D. Cyclopentane-2-ol-1-al

Answer: C

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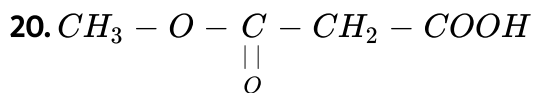
19. The name for the structure



- A. Cyclohexanoyl chloride
- B. Cyclohexane carbonyl chloride
- C. 1-Chloro cyclohexanal
- D. Chloro cyclohexyl methanal

Answer: B

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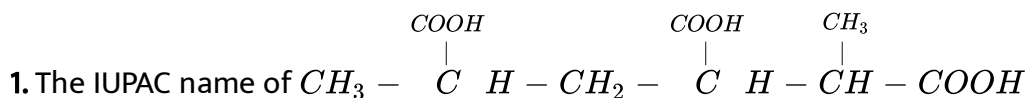
The correct IUPAC name of the above compound is :

- A. 2-Acetoxy ethanoic acid
- B. 2-Methoxycarbonyl ethanoic acid
- C. 3-Methoxyformyl ethanoic acid
- D. 2-Methoxyformyl acetic acid

Answer: B

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Exercise 02



is :-

- A. 2,4,5-Hexane tricarboxylic acid
- B. 2,3,5-Hexane tricarboxylic acid
- C. 2-(1-carboxyethyl)-4-methyl pentanedioic acid
- D. 3,5-Dicarboxy-2-methyl hexanoic acid

Answer: B

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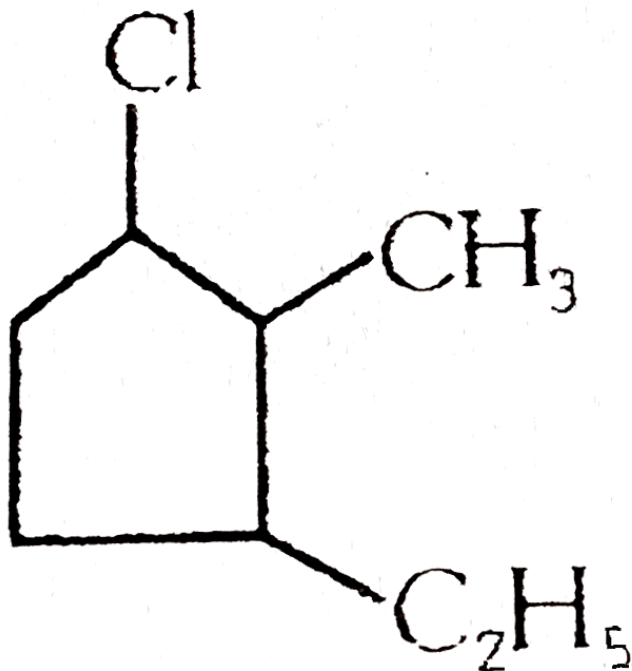
2. The name for $HC \equiv C - \underset{\substack{| \\ CH_3}}{C} = CH - CH_3$ is :-

- A. 3-Methyl-2-penten-4-yne
- B. 3-Methyl-3-penten-1-yne
- C. 3-Methyl-4-pentyn-1-ene
- D. 3-Methyl pentenyne

Answer: B

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3. Iupac name of following compound



- A. 3-Chloro-1-ethyl-2-methylcyclopentane
- B. 1-Chloro-3-ethyl-2-methylcyclopentane
- C. 4-Chloro-1-ethyl-5-methylcyclopentane
- D. None of above

Answer: B



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4. The IUPAC name of CH_3CH_2NHCHO is :

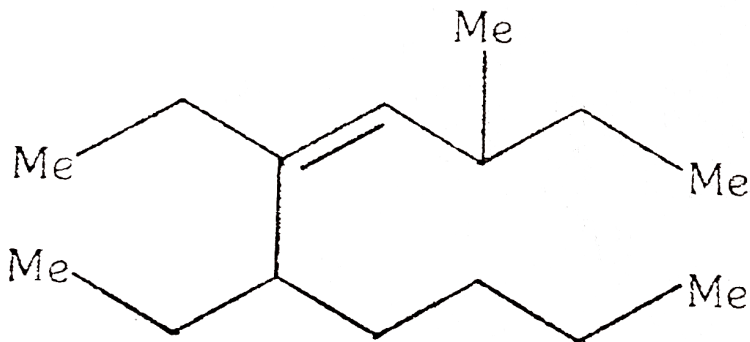
- A. N-formyl ethanamine
- B. Ethyl amino methanal
- C. N-ethyl methanamide.
- D. None of them

Answer: C



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5. The IUPAC name of the ,



, structure is

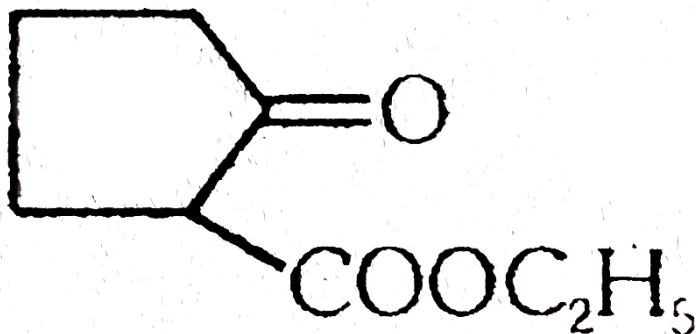
:-

- A. 2,4,5-Triethyl-3-nonene
- B. 5,6-Diethyl-3-methyl-4-decene
- C. 2,4,5-Triethyl-3-octene
- D. 3-Ethyl-5-methyl-3-heptene

Answer: B



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6. _____ has the

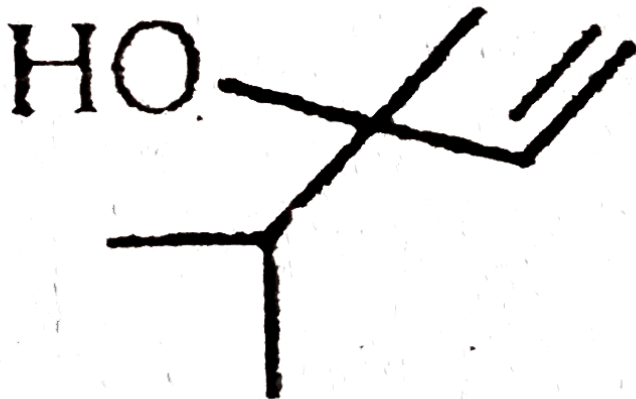
IUPAC name :

- A. Ethyl-2-oxo cyclopentane carboxylate
- B. 2-Cyclopentanone -1-carbethoxy
- C. 2-Ethylcarbonate cyclopentanone
- D. 1-Keto-2-carbethoxy cyclopentanone

Answer: A



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7. _____ has the

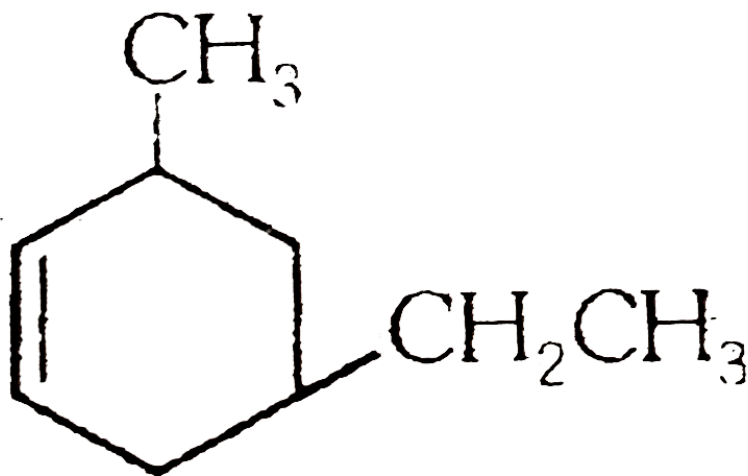
IUPAC name :

- 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

Answer: A

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8. The IUPAC name of



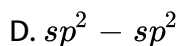
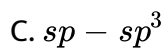
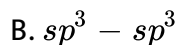
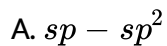
is :-

- A. 1-Methyl-5-ethyl cyclohex-2-ene
- B. 5-Ethyl-3-methyl cyclohex-1-ene
- C. 4-Ethyl-6-methyl cyclohex-1-ene
- D. 1-Ethyl-5-methyl cyclohex-3-ene

Answer: B

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9. In the compound $HC \equiv C - CH_2 - CH = CH - CH_3$, the $C_2 - C_3$ bond is the type of :-



Answer: C



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10. The number of all primary amines possible with the molecular formula C_3H_9N and the primary amine with amino group on a primary carbon atom is given by the set :-

A. 4, 1

B. 2, 1

C. 3, 2

D. 2, 2

Answer: B

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11. The number of primary alkanols, secondary alkanols and tertiary alkanols possible with the formula $C_4H_{10}O$ is given by the set :-

A. 2, 1, 0

B. 1, 2, 1

C. 2, 1, 1

D. 2, 1, 2

Answer: C

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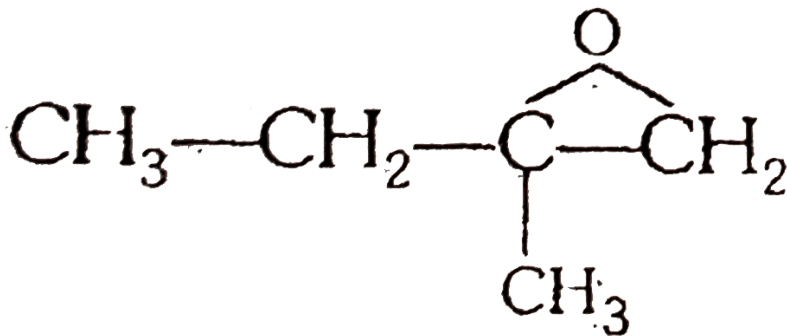
12. IUPAC name of $CH_2 = CH - CH_2NH_2$ is :

- A. 3-amino propenamine
- B. 2-Propen-1-amine
- C. 3-Amino-1-propenamine
- D. Allyl Amine

Answer: B

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13. The compound ,



, may be

named as :

A. 2-ethyl-2-methyl oxirane

B. 1,2-epoxy-2-methylbutane

C. 1,2-oxapentane

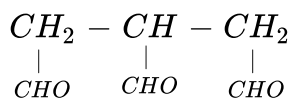
D. 2-methyl-2-butoxide

Answer: A:B

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14. Which of the following names are not correct for the given compound

:



A. 3-Formyl pentane-1,5-dial

B. 1,2,3-Triformylpropane

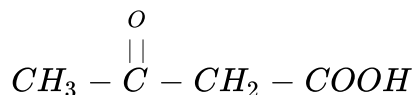
C. 2-Formylbutane-1,4-dial

D. Propane-1,2,3-tricarbaldehyde

Answer: B::C

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15. Which of the following names are correct for the compound :



- A. 3-ketobutan-1-oic acid
- B. 4-Carboxy butan-2-one
- C. 3-oxo butan-1-oic acid
- D. 3-Carboxy acetone

Answer: A::C

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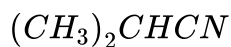
16. The *IUPAC* name of $C_6H_5CH = CH - COOH$ is :

- A. Succinic acid
- B. 3-phenylprop-2-en-1-oic acid
- C. Mandelic acid
- D. Cinnamic acid

Answer: B::D

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17. The name (s) of the following compound is ,

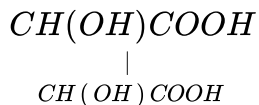


- A. 2-Methyl propane nitrile
- B. Isobutyro nitrile
- C. Isopropyl cyanide
- D. None of these

Answer: A::B::C

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18. The names(s) of the following compound is :



- A. tartaric acid
- B. 2,3-dihydroxy butane-1,4-dioic acid
- C. $\alpha\alpha$ -dihydroxy succinic acid
- D. None of these

Answer: A::B::C

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
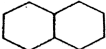


Exercise 03

1. Match the following the compounds of column I with column II.

Column-I	Column-II
(A) C_nH_{2n+2} (p)	Alkynes
(B) C_nH_{2n} (q)	Alkenes
(C) C_nH_{2n-2} (r)	Cyclohexane
(D) C_6H_{12} (s)	Paraffins or alkanes

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2. Match column I with column II and select the correct answer from the given codes :

	Column-I (compounds)		Column-II (number of carbons in the bridges)
(A)		(p)	{3.2.1}
(B)		(q)	{4.3.0}
(C)		(r)	{4.4.0}
(D)		(s)	{3.2.0}

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3. Comprehension

In addition to the standard ring systems (such as cyclohexane), cyclic compounds can also be bicyclic, tricyclic, etc. or they can be spirocyclic, bicyclic or bridge head carbons. The point of attachment of two rings are called bridge head atoms.

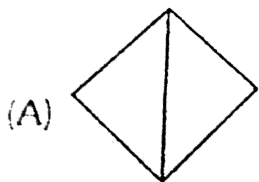
The formal names of bicyclic and related ring systems are based on

(a) Total number of atoms in the molecule.

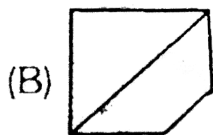
(b) The number of atoms in each bridge connecting the bridge head atoms. These numbers are written in square brackets in decreasing order.

Spirocyclic compounds have two fused rings, but only one bridge head atom. Spirocyclic compounds are named like bicyclic compounds, but have the prefix spirocyclo. Answer the following question :

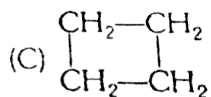
Which of the following is the correct structure of bicyclo [1.1.0] butane?



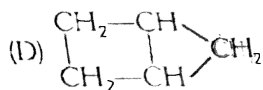
A.



B.



C.



D.

Answer: (A)

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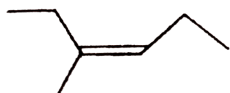
Exercise 04

1. A hydrocarbon of molecular weight 72 g mol^{-1} has a 2-methyl group.

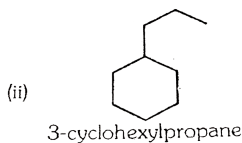
What is the IUPAC name? Also drawn its bond-line structure?

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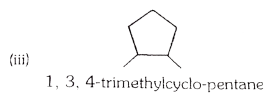
2. What is wrong with names given for these compounds provide the correct name for each :



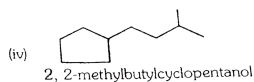
A. 2-ethyl-2-pentene



B.



C.



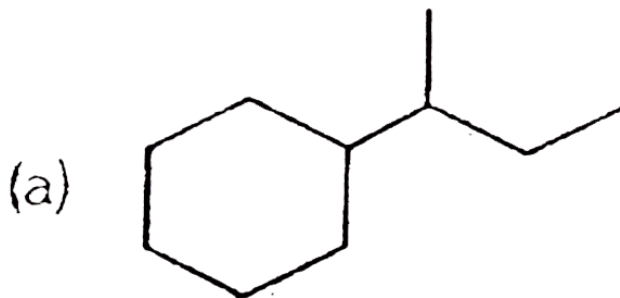
D.

Answer:



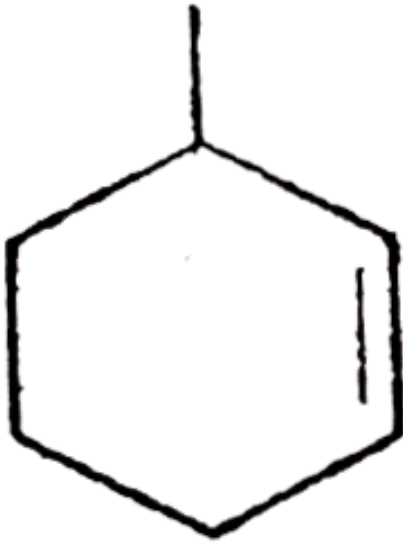
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3. Write the IUPAC name for each the following structures :



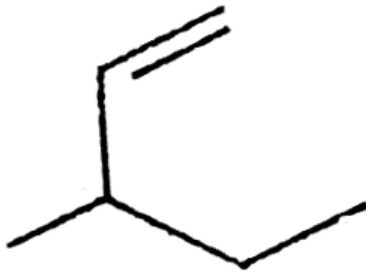
(a)

(b)



(b)

(c)

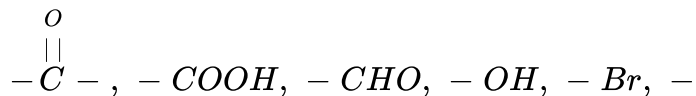


(c)



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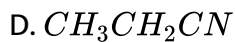
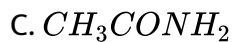
4. Write down the correct priority for citation as principal groups :



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Exercise 05 A

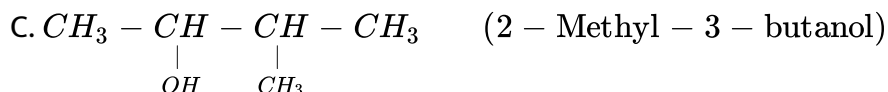
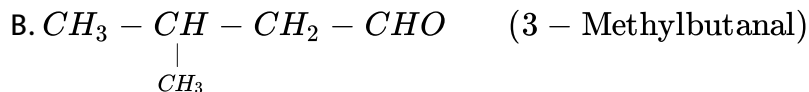
1. Underlined carbon is sp hybridised in-



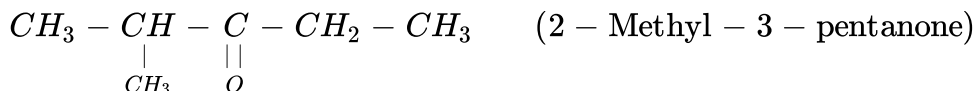
Answer: D

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2. Which of the following compound has wrong IUPAC name?



D.



Answer: C

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3. The IUPAC name of $CH_3COCH(CH_3)_2$ is

A. isopropyl methyl ketone

B. 2-methyl-3-butanone

C. 4-methylisopropyl ketone

D. 3-methyl-2-butanone

Answer: D

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4. The general formula of $C_nH_{2n}O_2$ could be for open chain

A. diketones

B. carboxylic acids

C. diols

D. dialdehydes

Answer: B

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5. Which one of the following does not have sp^2 hybridised carbon ?

A. Acetone

B. Acetic acid

C. Acetonitrile

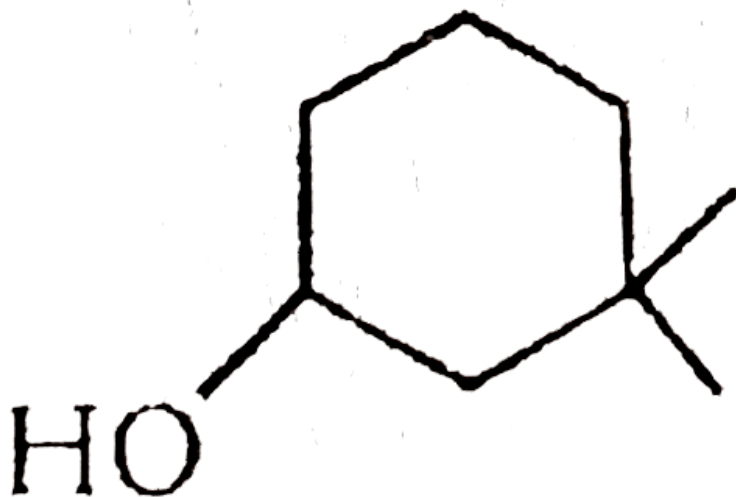
D. Acetamide

Answer: C



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6. The IUPAC name of the compound ,



, is

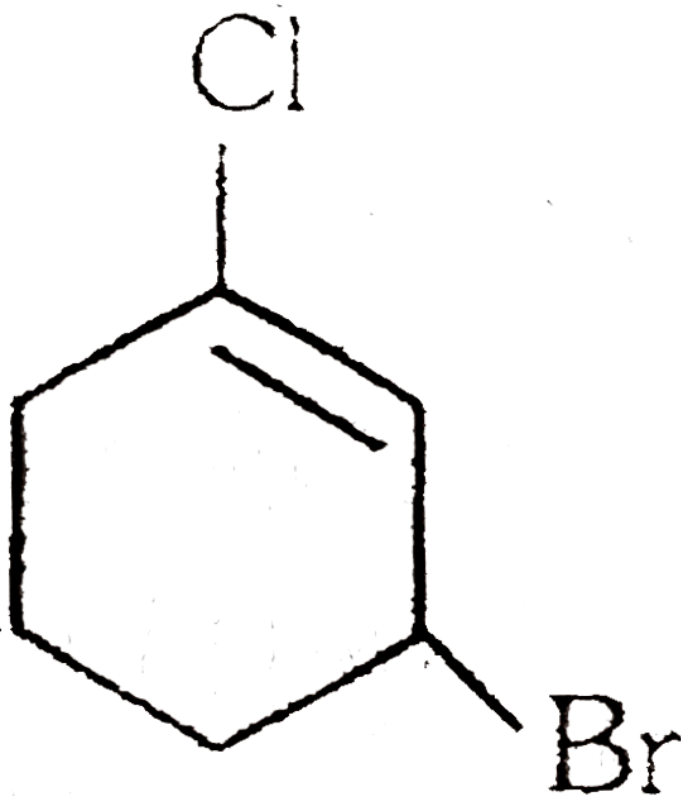
- A. 1,1-dimethyl-3-cyclohexanol
- B. 1,1-dimethyl-3-hydroxy cyclohexane
- C. 3,3-dimethyl-1-cyclohexanol
- D. 3,3-dimethyl-1-hydroxy cyclohexane

Answer: C



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7. The IUPAC name of the compound is



- A. 6-bromo-2-chlorocyclohexene
- B. 3-bromo-1-chlorocyclohexene
- C. 1-bromo-3-chlorocyclohexene

D. 2-bromo-6-chlorocyclohex-1-en

Answer: B

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8. The IUPAC name of _____ ,



, is-

A. 1,1-diethyl-2,2-dimethylpentane

B. 4,4-dimethyl-5,5-diethylpentane

C. 5,5-diethyl-4,4-dimethylpentane

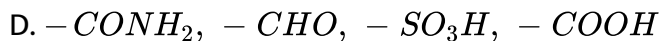
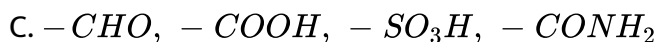
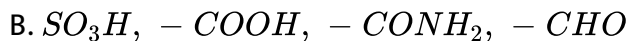
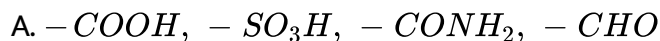
D. 3-ethyl-4,4-dimethylheptane

Answer: D



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9. Correct increasing order of osmotic pressure for the following is



Answer: A



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10. The IUPAC name of neopentane is :-



B. 2,2-dimethylbutane

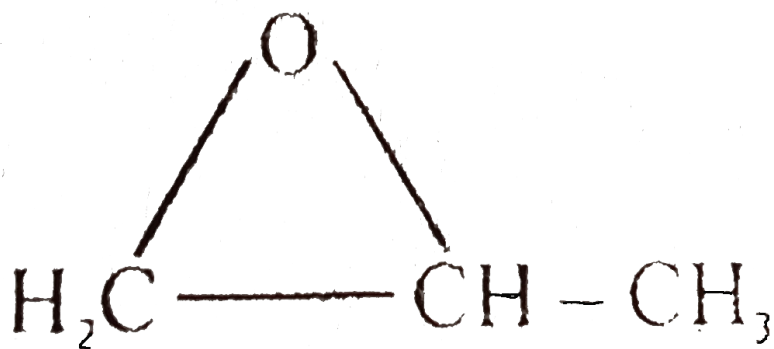
C. 2-methylbutane

D. 2,2-dimethylpropane

Answer: D

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11. The IUPAC name of the compound ,



, is :-

A. 1,2-Epoxy propane

B. Propylene oxide

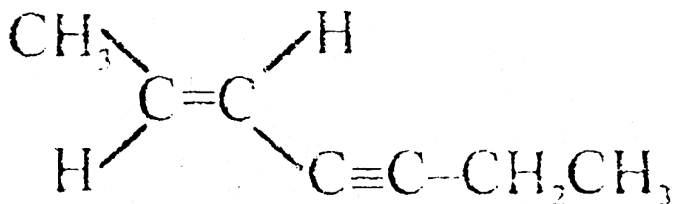
C. 1,2-Oxo propane

D. 1,2-Propoxide

Answer: A

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12. The IUPAC name of the following compounds is :



A. (Z)-5-hepten-3-yne

B. (Z)-2-hepten-4-yne

C. (E)-5-hepten-3-yne

D. (E)-2-hepten-4-yne

Answer: D



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13. The hydrocarbon with seven carbon atoms containing a neopentyl and a vinyl group is :

- A. 4,4-dimethylpentene
- B. 2,2-dimethyl-3-pentene
- C. Isopropyl-2-butene
- D. 2,2-dimethyl-4-pentene

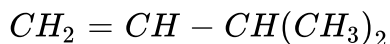
Answer: A



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Exercise 05 B

1. Give the *IUPAC* name of the following compound.



A. 1,1-Dimethylprop-2-ene

B. 3-Methylbut-1-ene

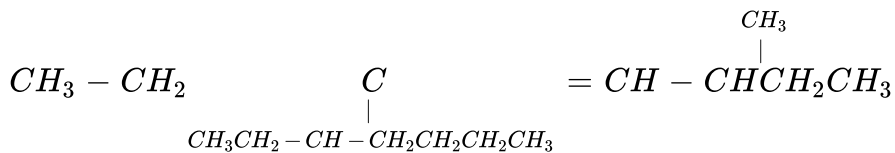
C. 2-Vinylpropane

D. 1-Isopropylethylene

Answer: B

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2. The correct IUPAC name of the compound is :



A. 5,6-diethyl-8-methyl dec-6-ene

B. 5,6-diethyl-3-methyl dec-4-ene

C. 6-butyl-5-ethyl-3-methyl oct-4-ene

D. 2,4,5-triethyl-3-ene

Answer: B



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3. Choose the correct IUPAC name for $CH_3 - \underset{\substack{| \\ CH_2 - CH_3}}{CH} - CHO$ is -

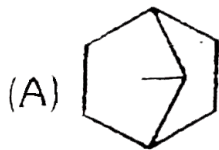
- A. Butan-2-aldehyde
- B. 2-Methylbutanal
- C. 3-Methyl iso butyraldehyde
- D. 2-Ethylpropanal

Answer: B

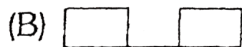


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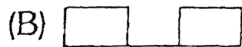
4. A compound with molecular formula C_8H_{14} , contains 12 secondary and two tertiary H atoms. The compound is :



A.



B.



C.



D.

Answer: B::C::D

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5. IUPAC name of $C_6H_5 - \overset{O}{\parallel} C - Cl$

A. Benzoylchloride

B. Benzenecarbonylchloride

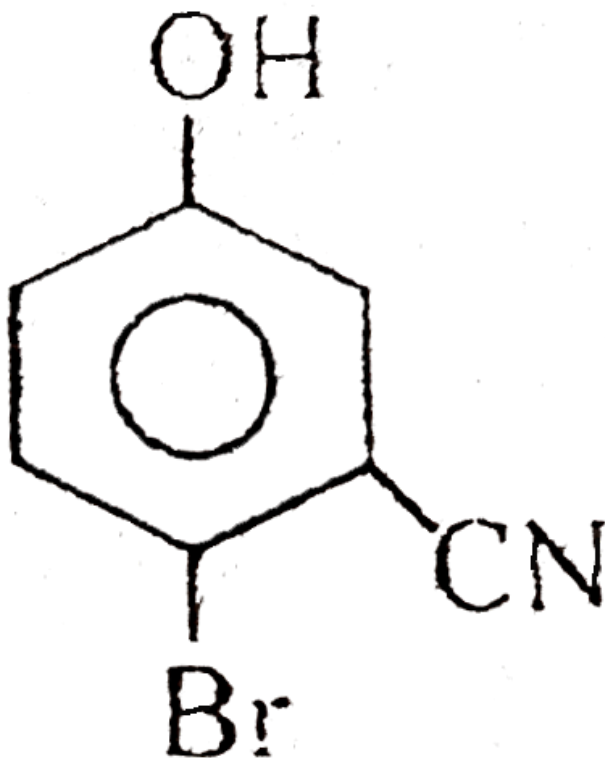
C. Chlorophenyl ketone

D. Phenylchloroketone

Answer: B

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6. If IUPAC name of the following compound is :



- A. 4-Bromo-3-cyanophenol
- B. 2-bromo-5-hydroxybenzotrile
- C. 2-Cyano-4-hydroxy bromo benzene
- D. 6-Bromo-3-hydroxy benzonitile

Answer: B

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7. The correct combination of names for isomeric alcohols with molecular formula $C_4H_{10}O$ is/are

- A. tert-butanol and 2-methylpropan-2-ol
- B. tert-butanol and 1,1-dimethylethan-1-ol
- C. n-butanol and butan-1-ol
- D. isobutyl alcohol and 2-methylpropan-1-ol

Answer: A::C::D



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