

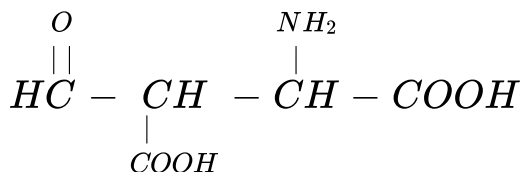
CHEMISTRY

BOOKS - GRB CHEMISTRY (HINGLISH)

NOMENCLATURE AND CLASSIFICATION

Straight Objective Type

1. Correct IUPAC name of following compound is :



A. 2 - amino - 3 - formylbutan - 1, 4 - dioic acid

B. 2 - formyl - 3 - aminobutan - 1, 4 - dioic acid

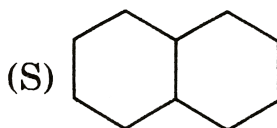
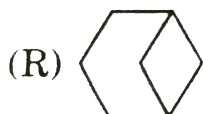
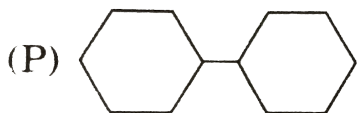
C. 3 – amino – 2 – formylbutan – 1, 4 – dioic acid

D. 2 – amino – 3 – carboxy – 4 – oxobutanoic acid

Answer: A

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2. Which of the following is/are a bicyclo compound (s)?



A. R only

B. R and S only

C. Q,R and S

D. P,Q,R and S

Answer: B



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3. IUPAC name of $CH_3 - CH_2 - \underset{\substack{| \\ H}}{N} - CHO$ is:

- A. N-ethyl aminoethanol
- B. N-formyl aminoethane
- C. N-ethyl methanamide
- D. ethanamine

Answer: C



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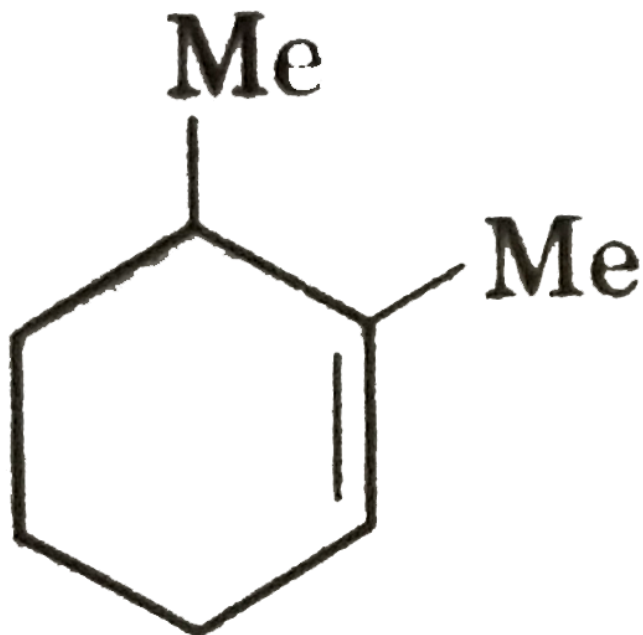
4. The correct name of 1-methoxy-1-ethyl-2-methyl propane is:

- A. 2-methyl-3-methoxy pentane
- B. 1-methoxy-1-iso-propyl methane
- C. 3-methoxy-4-methylpentane
- D. 3-methoxy-2-methyl pentane

Answer: D



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5.

IUPAC

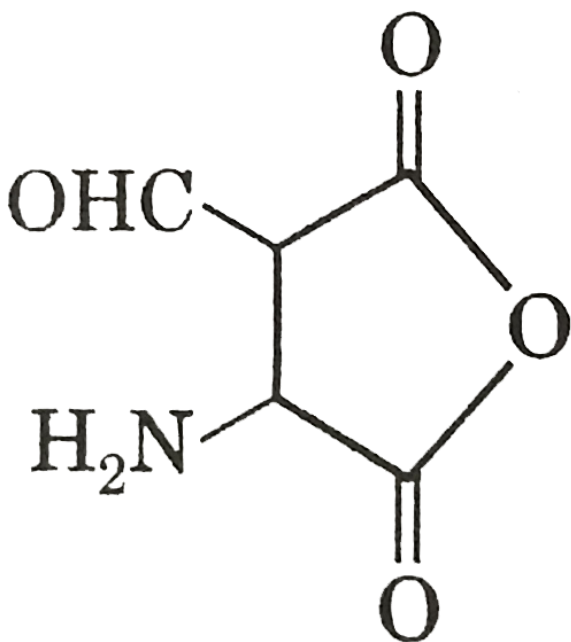
name of this compound is:

- A. 1,2-dimethyl cyclohex-2-ene
- B. 1,2-dimethyl cyclohex-1-ene
- C. 2,3-dimethyl cyclohex-1-ene
- D. 1,6-dimethyl cyclohex-1-ene

Answer: D

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6. Correct IUPAC name of following compound is:



A. 3-amino-2-formyl butane-1,4-dioic anhydride

B. 2-amino-3-formyl-1,2-epoxy butane-1,4-dione

C. 2-amino-3-formyl butane-1,4-dioic anhydride

D. 3-amino-2-formyl-1,2-epoxy butane-1,4-dione

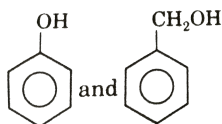
Answer: C

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7. Which of the following are homoguces ?

A. $CH_3CH_2 - NH_2$ and $CH_3CH_2NH - CH_3$

B. $CH_3 - OH$ and $CH_3CH_2CH_2CH_2\overset{OH}{\underset{|}{CH_2}}$

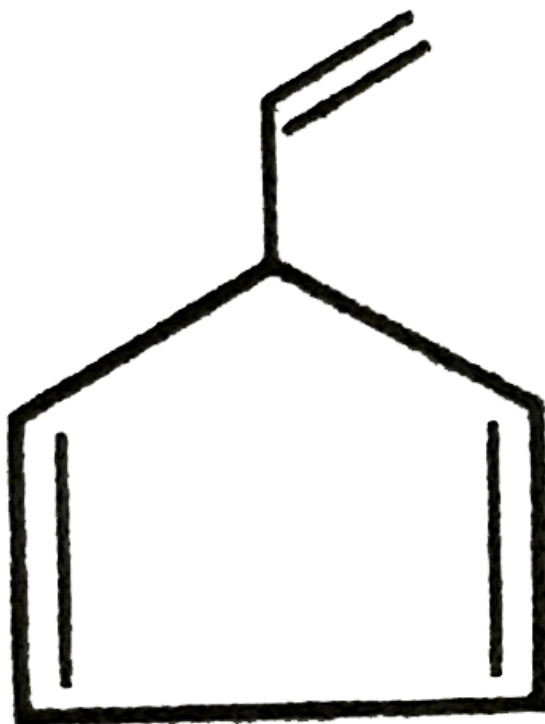
C.  and

D. CH_3COOH and $CH_3 - COOCH_3$

Answer: B

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8. IUPAC name of



A. 5-ethenylcyclopenta-1,3-diene

B. 3-ethenylcyclopenta-1,4-diene

C. 1-ethenylcyclopenta-2,4-diene

D. 2-ethenylcyclopenta-1,3-diene

Answer: A

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9. Number of 1° , 2° and 3° hydrogen in isooctane is :

A. 9, 8, 1

B. 12, 5, 1

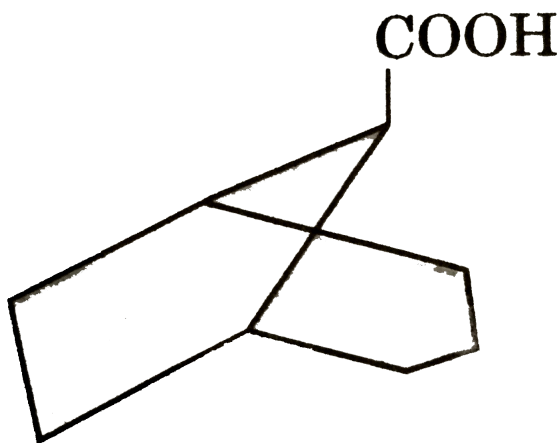
C. 15, 2, 1

D. none of these

Answer: C

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10. IUPAC name of



- A. bicyclo-[3,1,1]-octane-2-oic acid
- B. bicyclo-[3,2,1]-octane-1-carboxylic acid
- C. bicyclo-[3,2,1]-octane-8-oic acid

D. none of the above

Answer: D



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11. Select the option having correctly named compound(s).

(P) 3,3-dimethyl-1-hydroxycyclohexane

(Q) 4-ethoxy-2-methoxypentane-3-one

(R) 2-ethyl-1,1-dimethylcyclopentane

(S) 4-amino-2-hydroxy-4-oxobutanal

A. P,Q and R

B. R only

C. Q and S

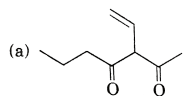
D. Q only

Answer: B

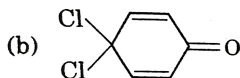
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12. Which of the following compound is not named correctly

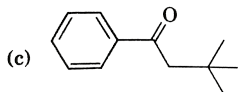
?



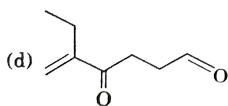
A. 3-ethenyl-2,4-heptanedione



B.



C.



D.

Answer: D



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13. Correct name for $(C_2H_5)_2C = C(CH_3)CH_2CO_2H$ is:

A. 4,4-diethyl-3-methyl-3-butenic acid

B. 4-ethyl-3-methyl-3-hexenoic acid

C. 3-ethyl-4-methyl-3-hexenoic acid

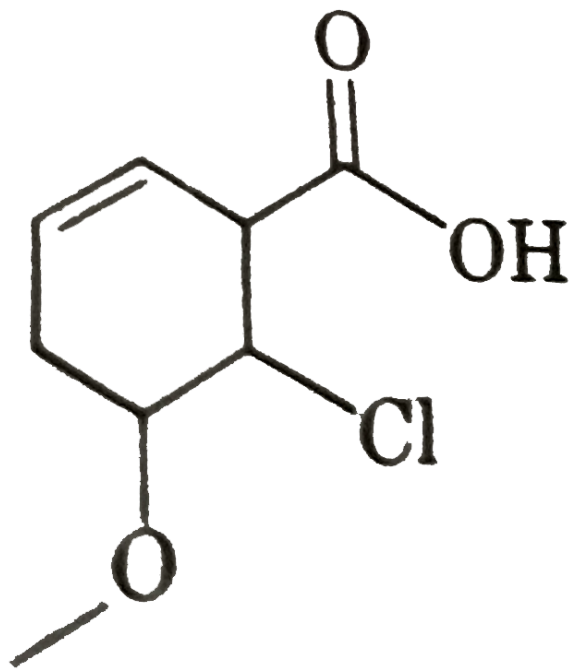
D. 3-ethyl-4-methyl-3-hexene-6-oic acid

Answer: B



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14. IUPAC name of following is:

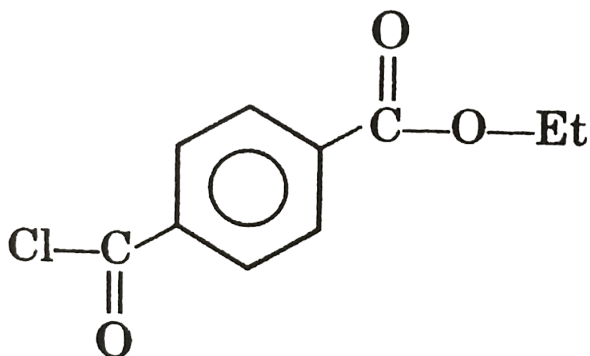


- A. 2-chloro-3-methoxy cyclohex-5-ene carboxylic acid
- B. 6-chloro-5-methoxy cyclohex-2-ene carboxylic acid
- C. 6-chloro-5-methoxy cyclohex-2-enoic acid
- D. 2-chloro-3-methoxy cyclohex-5-enoic acid

Answer: B

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15. IUPAC name of following compound is:

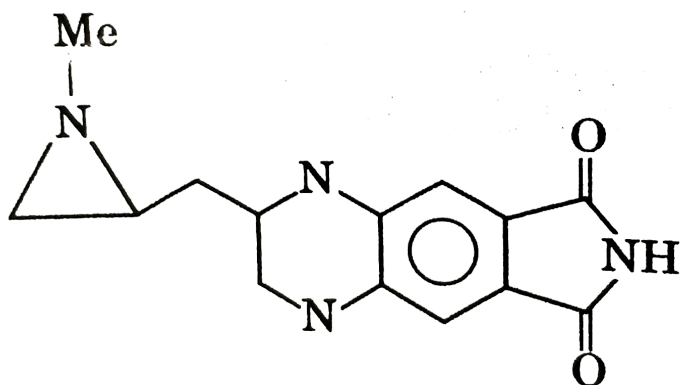


- A. 4-ethoxycarbonyl benzoyl chloride
- B. ethyl 4-chlorocarbonyl benzene carboxylate
- C. ethyl 4-chloroformyl phenyl methanoate
- D. ethyl 4-chlorocarbonyl benzoate

Answer: D

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16. Identify total number of 2° amines in given compound ?



A. 1

B. 2

C. 3

D. 4

Answer: B



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17. Select odd one out:

A. Isooctane

B. Isoheptane

C. Isononane

D. Isopentane

Answer: A



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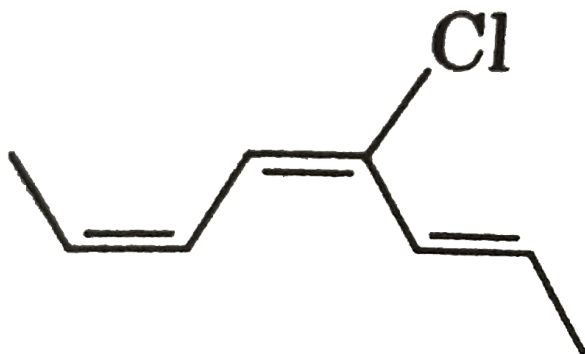
18. Write the correct IUPAC name of 2-amino-1, 3,7-trihydroxy hept-4-ene-1, 7-dione?

- A. 6-amino-5-hydroxy hept-3-ene-1,7-dioicacid
- B. 2-amino-3-hydroxy hept-4-ene-1,7,dioicacid
- C. 6-amino-5-hydroxy hept-4-ene-1,7-dicarboxylic acid
- D. 6-amino-5-hydroxy hept-3-ene-1,7-dicarboxylic acid

Answer: A

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19. What is the correct IUPAC name of the following compound ?



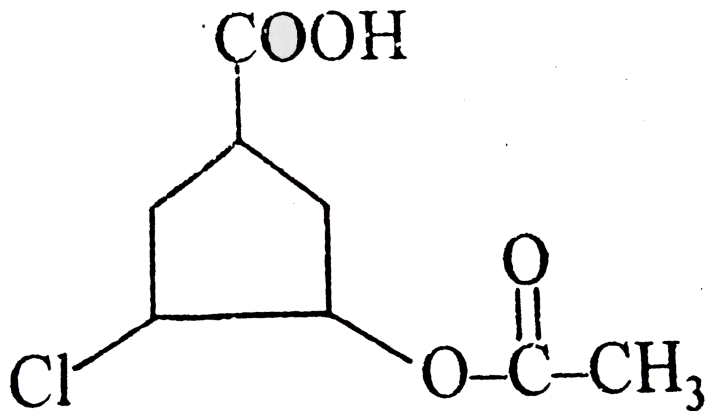
- A. (2E,4Z,6Z)-4-chloro oct-2,4,6-triene
- B. (2Z,4E,6E)-5-chloro oct-2,4,6-triene
- C. (2E,4E,6Z)-4-chloro oct-2,4,6-triene
- D. (2Z,4Z,6E)-5-chloro oct-2,4,6-triene

Answer: C



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20. What will be the correct IUPAC name of the following compound ?



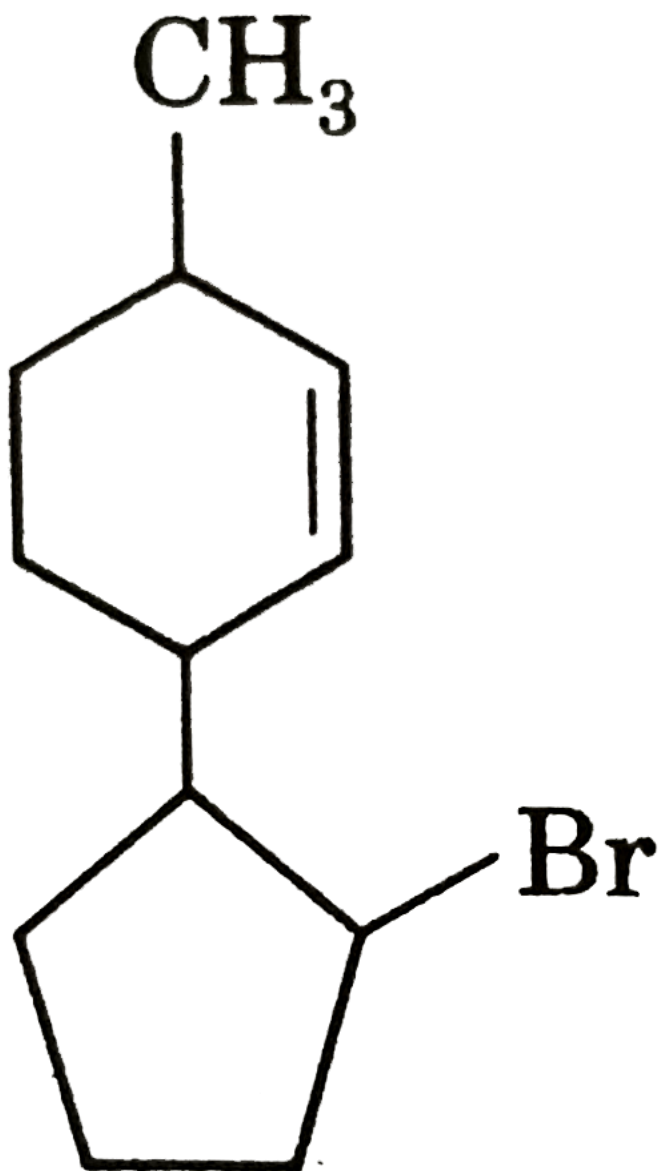
- A. 3-ethanoyl oxy-4-chloro cyclopentanoic acid
- B. 3-chloro-4-ethanoyloxy cyclopentanoic acid
- C. 3-chloro-4-ethanoyloxy cyclopentane carboxylic acid
- D. 3-ethanoyl oxy-4-chloro cyclopentane carboxylic acid

Answer: C



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21. IUPAC name of the compound

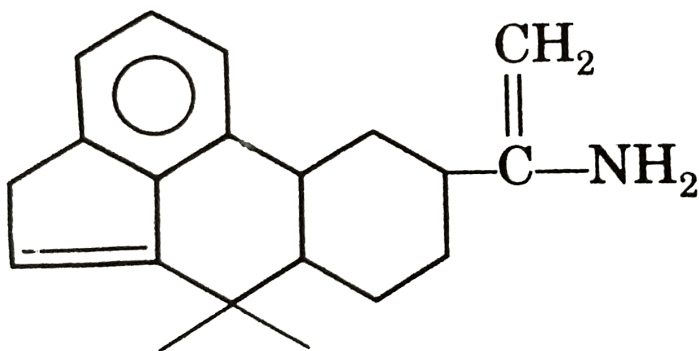


is

- A. 3-(2-bromo cyclopentyl)-6-methyl-cyclohex-1-ene
- B. 3-methyl-6-(2-bromo cyclopentyl)-cyclohex-1-ene
- C. 1-methyl,4-(2-bromo cyclopentyl)-cyclohex-2-ene
- D. 4-methyl-1-(2-bromo cyclopentyl)-cyclohex-2-ene

Answer: A

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Degree of unsaturation in the above compound is:

A. 7

B. 8

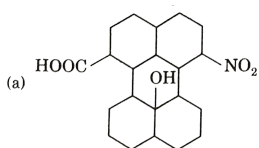
C. 9

D. 10

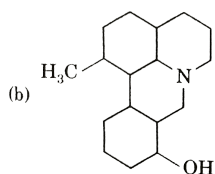
Answer: C

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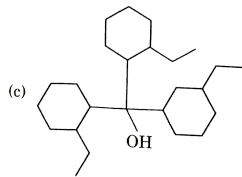
23. Which of the following is a heterocyclic compound ?



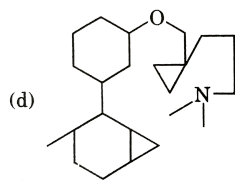
A.



B.



C.



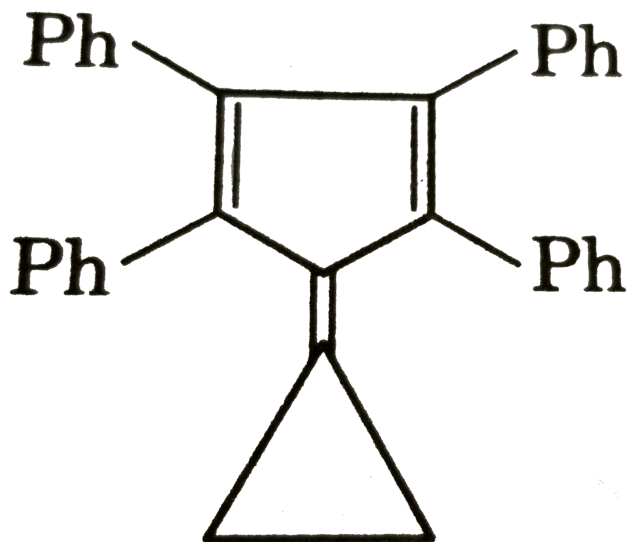
D.

Answer: B



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24. Degree of unsaturation for



A. 20

B. 21

C. 22

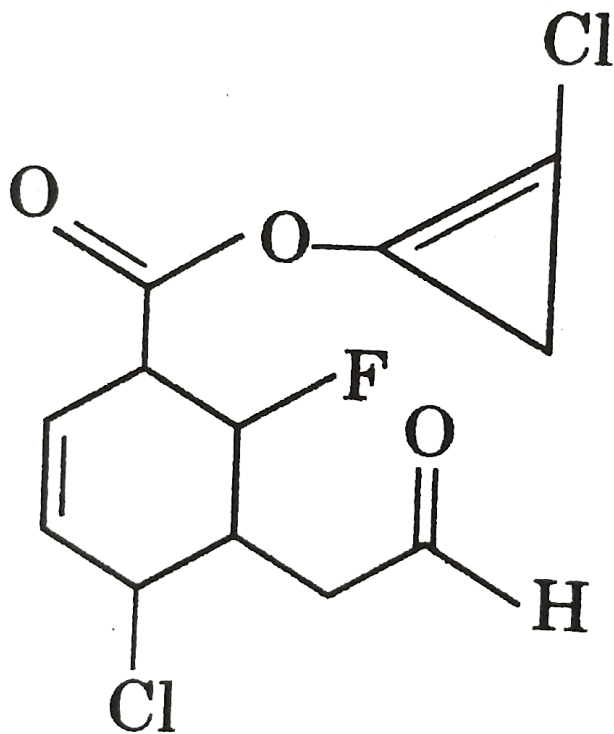
D. 33

Answer: B



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25. IUPAC name of the following compound is:



A. (2-chlorocyclopropenyl)-4-chloro-2-fluoro-3-[2-oxoformyl]cyclohex-5-enecarboxylate

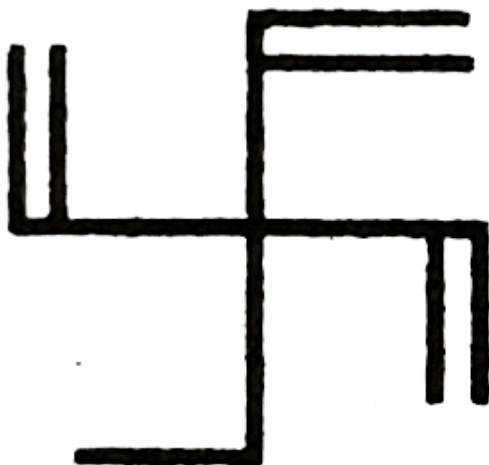
- B. (2-chlorocyclopropenyl)-4-chloro-6-fluoro-5-[2-oxoethyl] cyclohex-2-enecarboxylate
- C. (2-chlorocyclopropenyl)-4-chloro-6-fluoro-5-[formylmethyl] cyclohexanecarboxylate
- D. (2-chlorocyclopropenyl)-4-chloro-2-fluoro-3-[formylmethyl] cyclohex-5-enecarboxylate

Answer: B



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26. Given IUPAC name of the following compound :

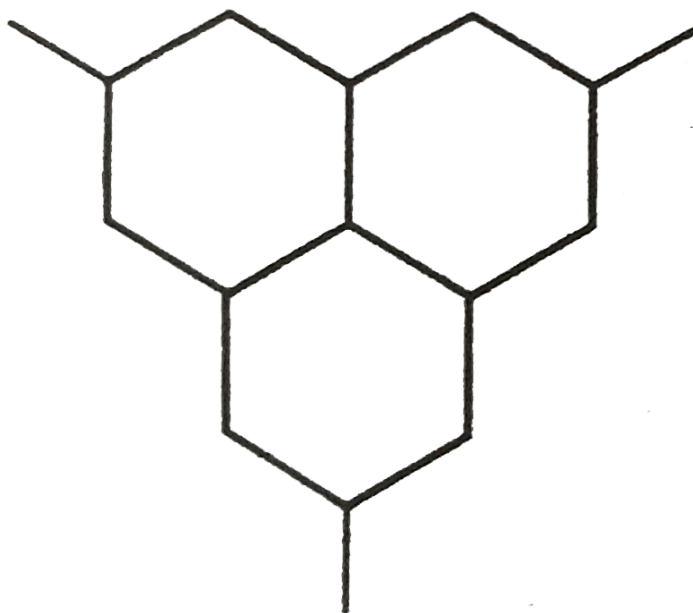


- A. 3,3-diethenyl pent-1-ene
- B. 3,3-diethenyl pent-4-ene
- C. 3-ethenyl-3-ethyl penta-1,4-diene
- D. 3,3,3 triethenyl propane

Answer: C



27. Total number of 3° hydrogens present in given compound are :



A. 7

B. 5

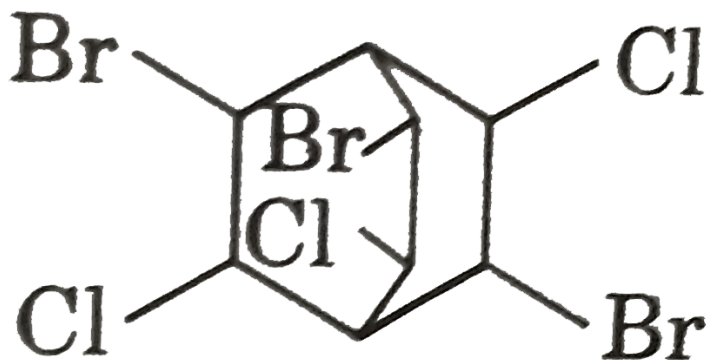
C. 4

D. 3

Answer: A



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28.

Given

IUPAC name:

A. 3,6,8-trichloro-2,5,7-tribromo bicyclo [2.2.2] octane

B. 2,5,7-tribromo-3,6,8-trichloro bicyclo [2.2.2] octane

C. 3,6,8-tribromo-2,5,7-tribromo bicyclo [2.2.2] octane

D. 2,5,7-trichloro-3,6,8-trichloro bicyclo [2.2.2] octane

Answer: B

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29. Which among the following is correct IUPAC name ?

A. 1,1-dimethyl cyclohexan-3-ol

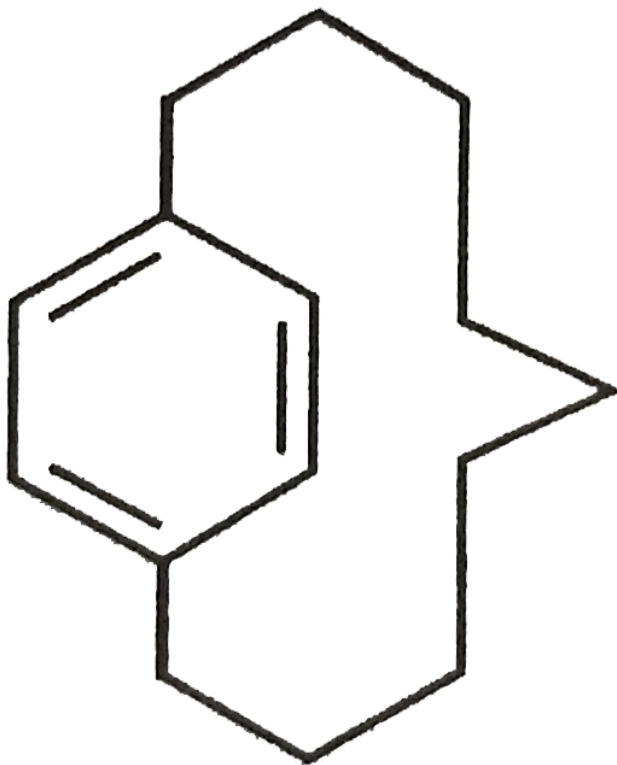
B. 4-methyl bicyclo [3.2.0] heptane

C. Butane-1,2-dione

D. 5-ethyl-3-methyl cyclohexene

Answer: D

30. Degree of unsaturation and σ bond in the following compound is



A. 4,36

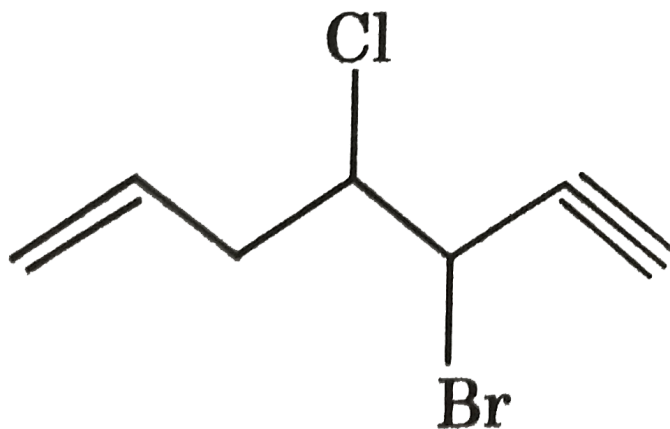
B. 5,36

C. 5,38

D. 4,38

Answer: C

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31.

IUPAC name of given compound is:

- A. 3-bromo 4-chlorohept-1-en-6-yne
- B. 5-bromo 4-chlorohept-1-en-6-yne
- C. 3-bromo 4-chlorohept-6-en-1-yne
- D. 5-bromo 4-chlorohept-6-en-1-yne

Answer: B

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32. In which of the following compound there is absence of secondary carbon ?

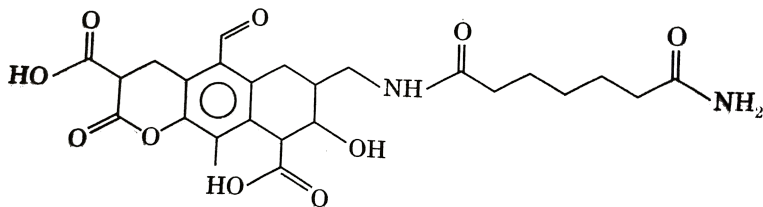
- A. 2,3,3,4-tetra methyl pentane
- B. 2,2,3,3-tetramethyl pentane
- C. 3-ethyl-2,4-dimethyl pentane

D. 3-ethyl pentane

Answer: A

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33. How many functional groups are present in following compound ?



A. 6

B. 8

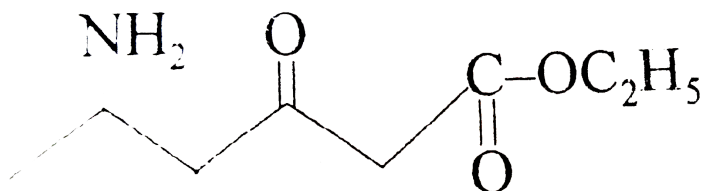
C. 7

D. 5

Answer: B

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34. Given the IUPAC name of compound



A. 5-amino-3-oxo-ethylhexanoate

B. Ethyl-5-amino-3-oxhexanoate

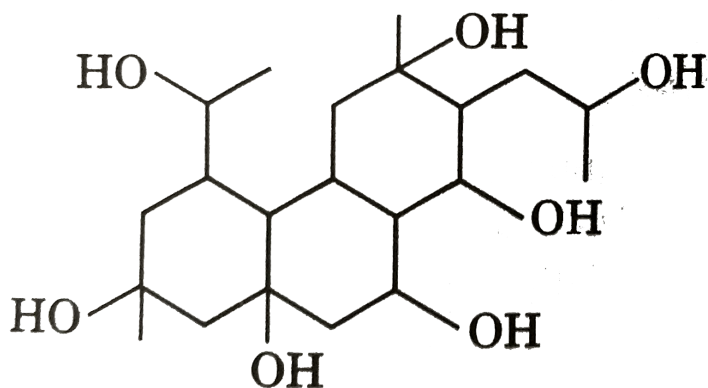
C. 1-ethoxy carbonyl-4-amino pentan-2-one

D. 5-amino-1-ethoxy-hexane-1,3-dione

Answer: B

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35. Number of 2° alcoholic group present in structure



- A. 3
- B. 2
- C. 4
- D. 5

Answer: C



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36. Which of the following a triad of homologous series ?

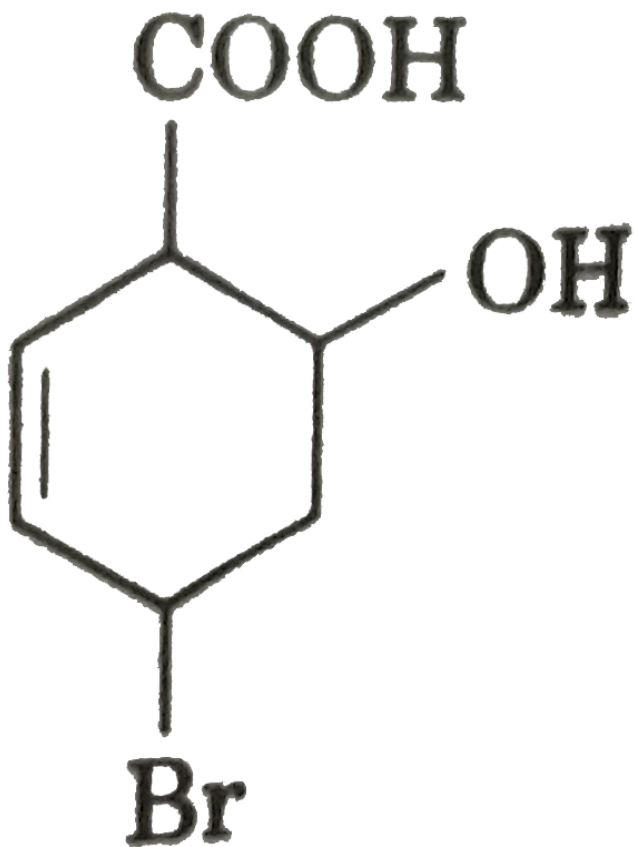
- A. Butane-2-one, butanal, 1,4-epoxy butane
- B. Ethylamine, methyl propyl amine, propyl amine
- C. Dimethyl amine, ethyl methyl amine, diethyl amine
- D. Phenol, benzyl alcohol, o-cresol

Answer: C



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37. Which is correct IUPAC name of



- A. 4-bromo-2-hydroxy cyclohex-5-ene-1-oic acid
- B. 4-bromo-2-hydroxy cyclohex-5-ene-1-carboxylic acid
- C. 4-bromo-6-hydroxy cyclohex-2-ene-1carboxylic acid

D. 4-bromo-6-hydroxy cyclohex-2-ene-1-oic acid

Answer: C



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38. Which compound is not smallest number of their corresponding homologous series ?

A. Acetone

B. Acetylene

C. Acetic acid

D. Ethylene

Answer: C



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39. Number of carboxylic acid groups present in picric acid is/are:

A. 1

B. 2

C. 0

D. 3

Answer: C



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40. Degree of unsaturation for tartaric acid is:

A. 2

B. 4

C. 1

D. 3

Answer: A

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41. The compound which has one isopropyl group is :

A. 2,2,3,3-tetramethyl pentane

B. 2,2-dimethyl pentane

C. 2,2,3-trimethyl pentane

D. 2-methyl pentane

Answer: D



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42. The group of heterocyclic compounds is:

- A. Phenol, Furane
- B. Furane, Thiophene
- C. Thiophene, Phenol
- D. Furane, Aniline

Answer: B



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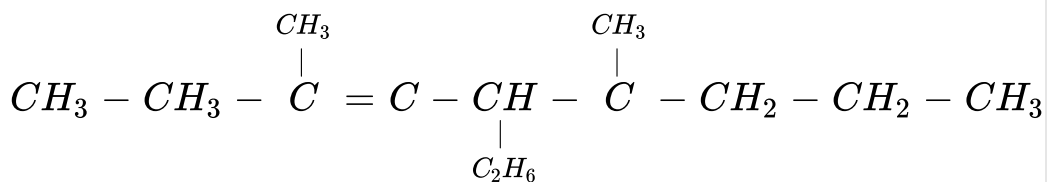
43. The molecular formula of the first member of the family of alkenynes and its name is given by the set :

- A. C_3H_2 , Alkene
- B. C_5H_6 , Pent-1-en-3-yne
- C. C_6H_8 , Hex-1-en-5-yne
- D. C_4H_4 , Butenyne

Answer: D

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44. The correct IUPAC name of the compound:

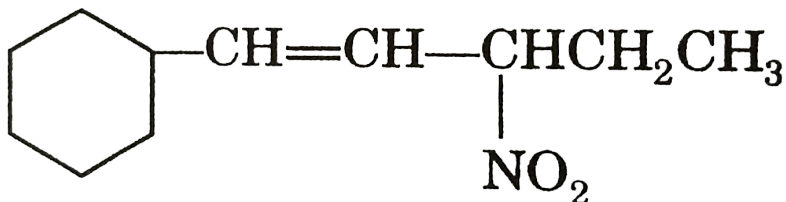


- A. 5-ethyl-3,6-dimethyl non-3-ene
- B. 5-ethyl-4,7-dimethyl non-3-ene
- C. 4-methyl-5,7-diethyl oct-2-ene
- D. 2,4-ethyl-5-methyl oct-2-ene

Answer: A

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45. The IUPAC name of



is

- A. 1-cyclohexyl-3-nitropent-1-ene

B. 3-nitro-5-cyclohexylpene-1-ene

C. 1-cyclohexyl-3-ethyl-3-nitroprop-1-ene

D. 3-cyclohexyl-1-ethyl-1-nitroprop-2-ene

Answer: A

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46. The IUPAC name of $CH_3CH_2 - \underset{\substack{| \\ CH_3}}{N} - CH_2CH_3$ is:

A. N-Methyl-N-ethyl ethanamine

B. Diethyl methanamine

C. N-Ethyl-N-methyl ethanamine

D. Methyl diethyl amine

Answer: C



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47. The IUPAC name of acetyl acetone is:

A. Pentane-2-,5-dione

B. Pentane-2-,4-dione

C. Hexane-2-,4-dione

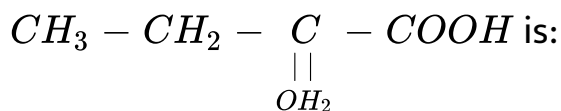
D. Butane-2-,4-dione

Answer: B



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48. The correct IUPAC name of



- A. 2-methyl butanoic acid
- B. 2-ethylprop-2-enoic acid
- C. 2-carboxybutene
- D. none of the above

Answer: B



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49. The correct IUPAC name of 2-ethylpent-3-yne is:

- A. 3-methyl hex-4-yne

B. 4-ethyl pent-2-yne

C. 4-methyl hex-2 yne

D. none of these

Answer: C

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50. The IUPAC name of the compound

$CH_3CH = CHCH = CHC \equiv CCH_3$ is:

A. Octa-4,6-diene-2-yne

B. Octa-2,4-diene-6-yne

C. Oct-2-yne-4,6-diene

D. Oct-6-yne-2,4-diene

Answer: B



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51. $C_3H_6Br_2$ can shown:

- A. two gem dibromide
- B. two vic dibromide
- C. four total dibromo derivatives
- D. all of the above

Answer: A



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52. The IUPAC name of the compound $Br(CI)CI.CF_3$ is:

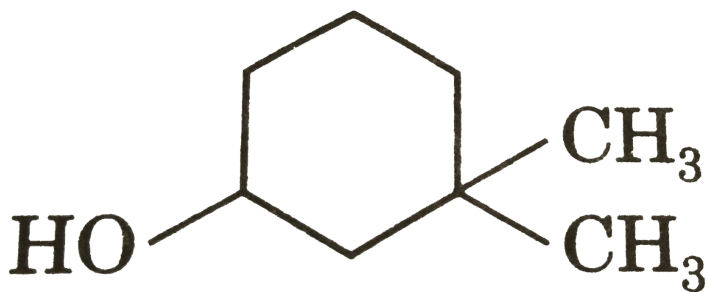
- A. 2-bromo-2-chlor-2-iodal1,1,1-trifluoroethane
- B. 1-1,1-trifluoro-2-bromo-2-chloro-2-iodo- ethane
- C. 2-bromo-2-chloro-1,1,1-trifluoro-2-iodo ethane
- D. 1-bromo-1-chloro-2,2,2-trifluoro-1-iodo ethane

Answer: D



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53. The IUPAC name of the given compound is:



- A. 1,1-dimethyl-3-hydroxy cyclohexane
- B. 3,3-dimethyl-1-hydroxy cyclohexane
- C. 3,3-dimethylcyclohexanol
- D. 1,1-dimethylcyclohexan-3-ol

Answer: C



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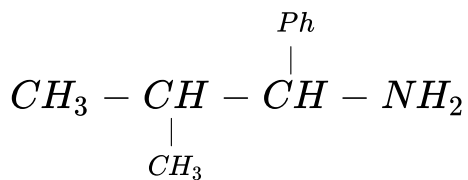
54. The IUPAC name of $(C_2H_5)_2NCH_2\underset{\substack{| \\ Cl}}{CH}.COOH$ is:

- A. 2-chloro4-N-ethylpentaonic acid
- B. 2-chloro-3-(N,N-diethyl amino)-propanoic acid
- C. 2-chloro-2-oxo diethylamine
- D. 2-chlor-2-carboxy-N-ethyl ethane

Answer: B

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55. The IUPAC name of the compound is:

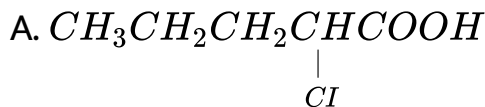


- A. 1-amino-1-phenyl-2-methyl propane
- B. 2-methyl-1-phenyl propan-1-amine
- C. 2-methyl-1-amino-1-phenyl propane
- D. 1-isopropyl-1-phenyl methyl amine

Answer: B

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56. Which of the following compound is wrongly named ?



2-chloro pentanoic acid



2-Chloro pentanoic acid



Bicyclo-[3,2,1]-oct-1-ene

B.

Bicyclo-[3,2,1]-oct-1-ene

C. $\text{CH}_3\text{CH}_2\text{CH} = \text{CHCOCH}_3$, Hex-3-en-2-one

D. $\text{CH}_3 - \text{CHCH}_2\text{CH}_2\text{CHO}$

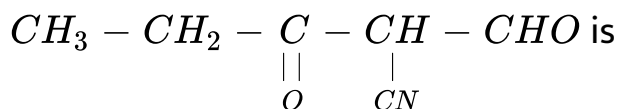


4 - methyl pentanal

Answer: B

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57. The correct IUPAC name of compound



A. 2-cyano-3-oxopentanal

B. 2-formyl-3-oxopentanenitrile

C. 2-cyanopentane-1,3-dione

D. 1,3-dioxo-2-cyanopentane

Answer: B

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58. IUPAC name of : $CH_3 - CH_2 - \underset{\begin{array}{c} || \\ O \end{array}}{C} - \underset{\begin{array}{c} | \\ CH_3 \end{array}}{CH} - \underset{\begin{array}{c} || \\ O \end{array}}{C} - C_2H_5$

A. Ethyl-4-methyl-3-oxo pentanoate

B. 2-ethoxy carbonyl pentan-3-one

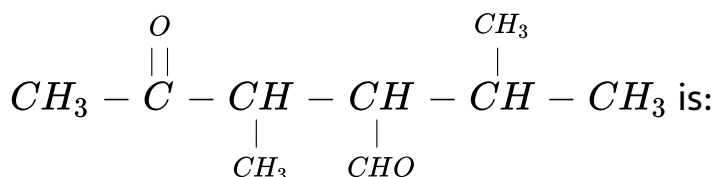
C. 4-ethoxy carbonyl pentan-3-one

D. Ethyl 2-methyl 3-oxo-pentanoate

Answer: D

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59. The IUPAC name of compound

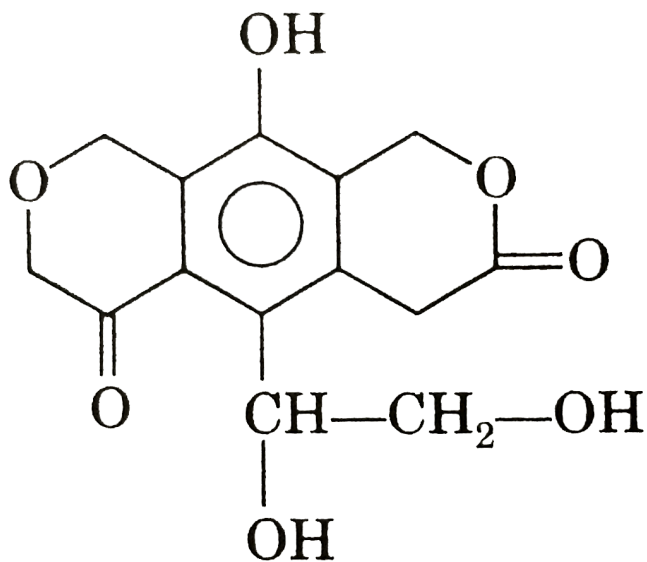


- A. 3,5-dimethyl-4-formyl pentanone
- B. 1-isopropyl-2-methyl-4-oxo butanol
- C. 2-isopropyl-3-methyl-4-oxo pentanal
- D. none of the above

Answer: C

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60. Total number of functional groups in following compound is:



A. 4

B. 5

C. 6

D. 3

Answer: C



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61. One among the following is the correct IUPAC name for N-ethyl-1-amino methanal.

- A. N-formyl aminoethane
- B. N-ethyl formyl amine
- C. N-ethyl methanamide
- D. Ethylamino methanal

Answer: C



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62. The IUPAC name of cinnamic acid is:

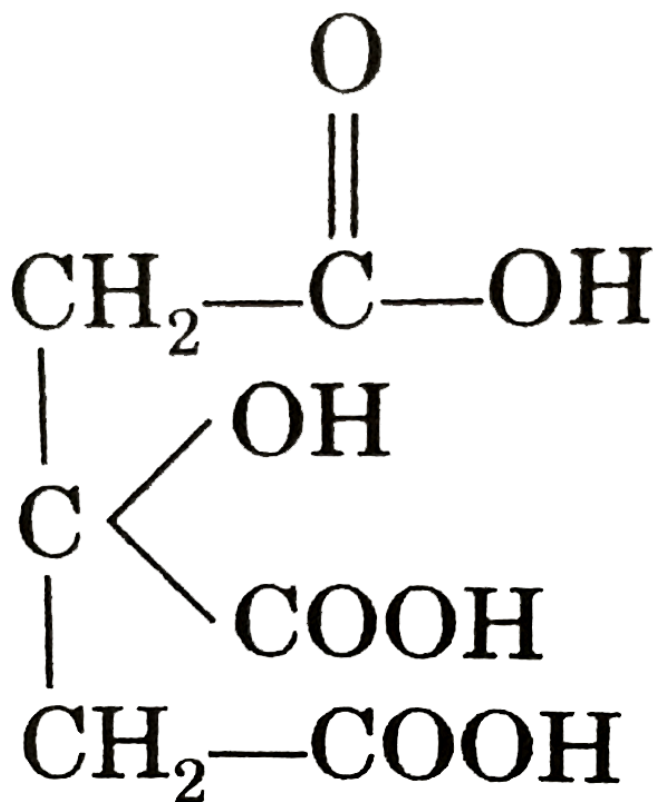
- A. 2,3-dihydroxy butane dioic acid
- B. 1-phenyl-2-carboxy ethane
- C. 3-phenyl prop-2-enoic acid
- D. dihydroxy-3-phenyl propionic acid

Answer: C



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63. The IUPAC name of compound



is:

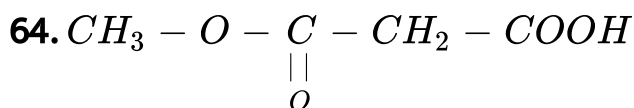
- A. 1,2,3-tricarboxypropane-1-ol
- B. 2-hydroxy propane-1,2,3-tricarboxylic acid
- C. 3-hydroxy-3-carboxypent-1,5-dioic acid

D. none of the above

Answer: B



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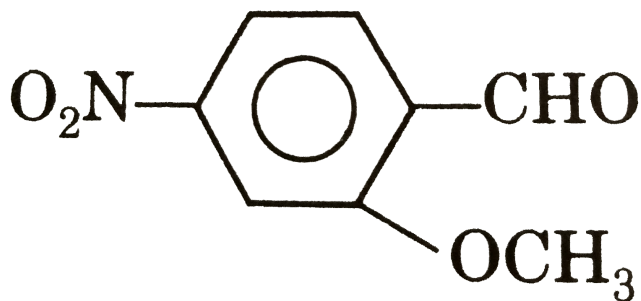
The correct systematic name of the above compound is :

- A. 2-acetoxy ethanoic acid
- B. 2-methoxy carbonyl ethanoic acid
- C. 3-methoxy-3-oxopropanoic acid
- D. 2-methoxy formyl acetic acid

Answer: B

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65. The IUPAC name of

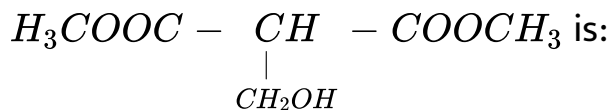


- A. 2-methoxy-4-nitro benzaldehyde
- B. 4-nitro anisaldehyde
- C. 3-methoxy-4-formyl nitro benzene
- D. 2-formyl-4-nitro anisole

Answer: A

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66. The IUPAC name of compound



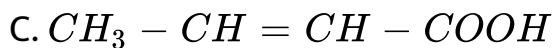
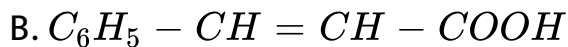
- A. 2-(hydroxy methyl)methyl propanedioate
- B. dimethyl-2-(hydroxy methyl) propanedioate
- C. 2-(hydroxy methyl)dimethyl propanedioate
- D. none of the above

Answer: B



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67. Which of the following is crotonic acid?



Answer: C



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68. Which of the following pairs have absence carbocyclic ring in both compounds ?

A. Pyridine, Benzene

B. Benzene, Cyclohexane

C. Cyclohexane, Furane

D. Furane, Pyridine

Answer: D

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69. when vinyl and allyl are joined each other, we get:

A. Conjugated alkadiene

B. Cumulative alkadiene

C. Isolated alkadiene

D. Allenes

Answer: C

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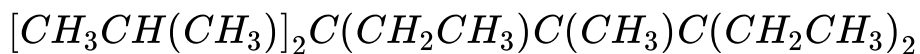
70. The IUPAC name of the following structure $(CH_3)C.C.C.(CH_3)CH(CH_3)$ is:

- A. 3-methylhex-4-yn-2-ene
- B. 3-methylhex-2-en-4-yne
- C. 4-methylhex-4-ene-4-yne
- D. All are correct

Answer: B

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71. The *IUPAC* name of the following structure is



- A. 3,5-diethyl-4,6-dimethyl-5-1-methylethylhept-3-ene
- B. 3,5-diethyl-5-isopropyl-4,6-dimethylhept-2-ene
- C. 3,5-diethyl-5-propyl-4,6-dimethylhept-3-ene
- D. None of the above

Answer: A



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72. All the following IUPAC names are correct except:

- A. 1-chloro-1-ethoxypropane

B. 1-amino-1-ethoxypropane

C. 1-ethoxypropan-2-ol

D. 1-ethoxypropan-1-amine

Answer: B

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73. The IUPAC name of β -ethoxy- α -hydroxy propionic acid (trivial name) is:

A. 1,2-dihydroxy-1-oxo-3-ethoxy propane

B. 1-carboxy-2-ethoxy ethanol

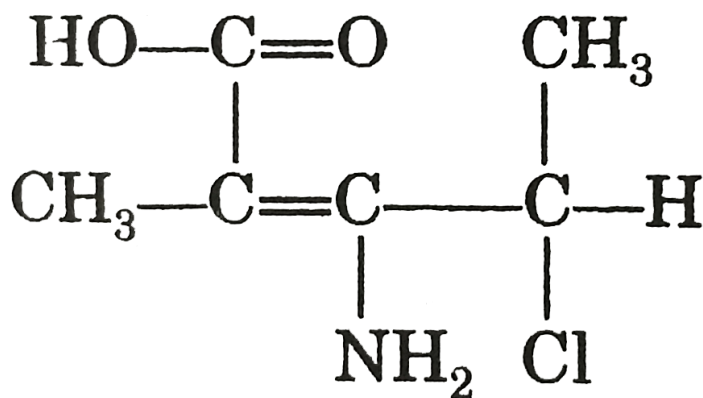
C. 3-ethoxy-2-hydroxy propanoic acid

D. All of the above

Answer: C

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74. The IUPAC name of compound



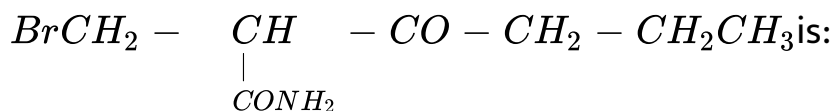
is

- A. 2-amino-3-chloro-2-methylpent-2-enoic acid
- B. 3-amino-4-chloro-2-methylpent-2-enoic acid
- C. 4-amino-3-chloro-2-methylpent-2-enoic acid
- D. All of the above

Answer: B

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75. The IUPAC name of



- A. 2-bromomethyl-3-oxohexanamide
- B. 1-bromo-2-amino-3-oxohexane
- C. 1-bromo-2-amino-n-propyl ketone
- D. 3-bromo-2-propyl propanamide

Answer: A

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76. The IUPAC name of $CH_2 - CH - CH_2$ is:

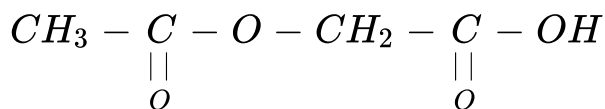
$$\begin{array}{ccc} & | & | & | \\ & CN & CN & CN \end{array}$$

- A. 1,2,3-tricyano propane
- B. Propane-1,2,3-trinitrile
- C. 1,2,3-cyano propane
- D. Propane-1,2,3-tricarbonitrile

Answer: D

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77. The systematic name of



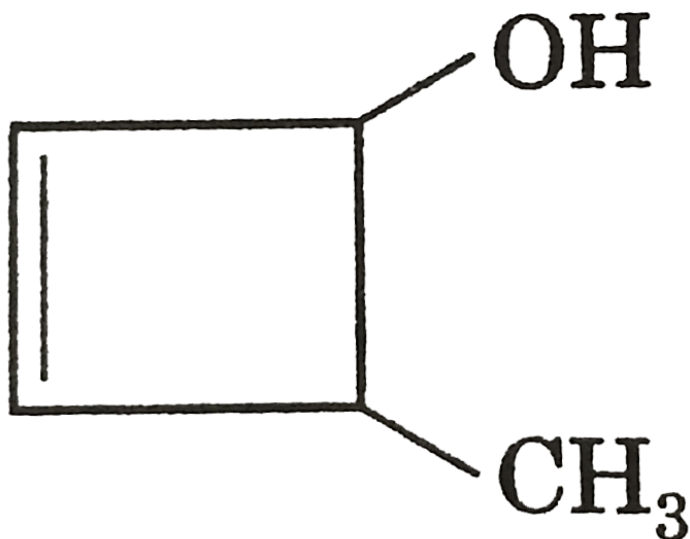
- A. 1-acetoxy acetic acid
- B. 2-acetoxy ethanoic acid
- C. 2-methoxycarbonyl ethanoic acid
- D. 2-ethanoyloxyethanoic acid

Answer: D



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78. The IUPAC name of



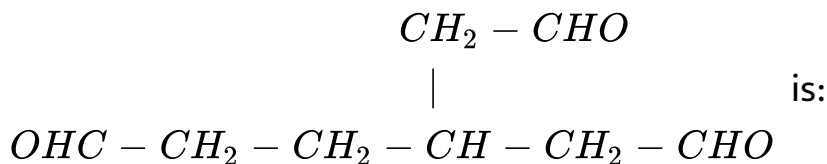
is:

- A. 3-methyl cyclobut-1-ene-2-ol
- B. 4-methyl cyclobut-2-ene-1-ol
- C. 4-methyl cyclobut-1-ene-3-ol
- D. 2-methyl cyclobut-3-ene-1-ol

Answer: B

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79. The IUPAC name of

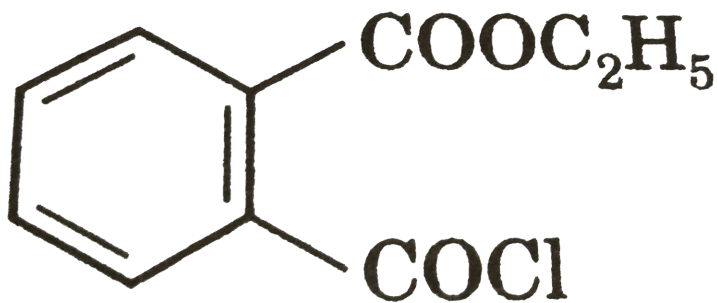


- A. 4,4-di(formylmethyl) butanal
- B. 2-(formylmethyl) butane-1,4-dicarbaldehyde
- C. Hexane-3-acetal-1,6-dial
- D. 3-(formylmethyl) hexane-1,6-dial

Answer: D

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80. The IUPAC name of



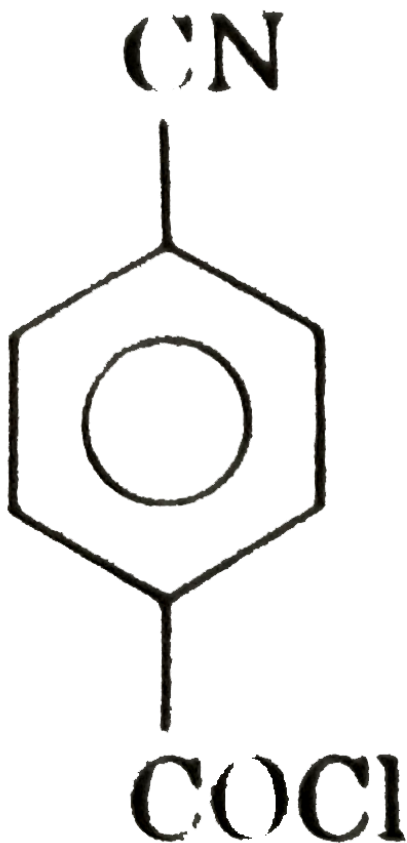
is:

- A. 2-chlorocarbonyl ethylbenzoate
- B. 2-carboxyethyl benzoyl chloride
- C. Ethyl-2-(chlorocarbonyl) benzoate
- D. Ethyl-1-(chlorocarbonyl) benzoate

Answer: C

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81. Select the correct IUPAC name of the following compound:



A. 4-chloro carbonyl benzonitrile

B. 4-cyano benzene carbonyl chloride

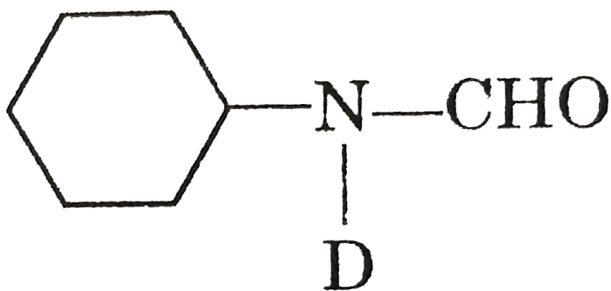
C. 4-chloro carbonyl benzene carbonitrile

D. 4-carbylamino benzene carbonyl chloride

Answer: B

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82. IUPAC name of



is:

A. N-Deutero-N-formylcyclohexanamine

B. N-Cyclohexylamino-N-deuteromethanal

C. N-Cyclohexyl-N-deuteromethanamide

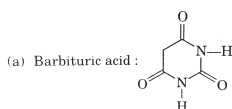
D. N-Deutero cyclohexanamine

Answer: C

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83. Which of the following compound is not named correctly

?

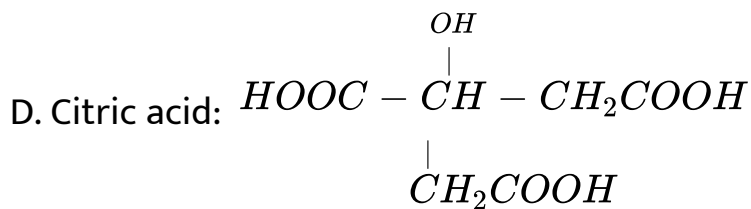


A. Barbituric acid

B. Lactic acid: $Me - \overset{OH}{\underset{|}{CH}} - COOH$



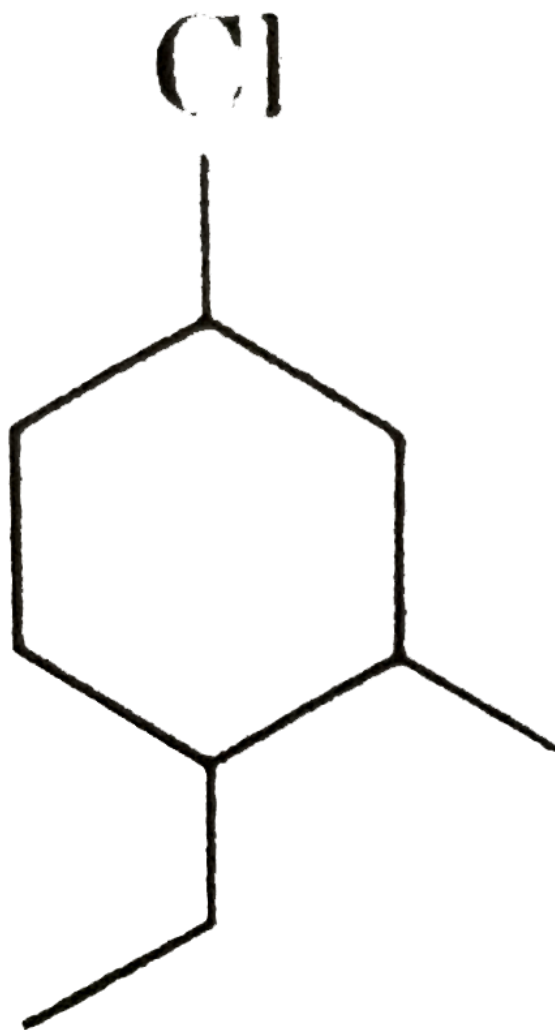
C. Gluconic acid: |



Answer: C



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84.

name

of the compound is:

A. 5-chloro-2-ethyl-1-methyl cyclohexane

B. 1-chloro-4-ethyl-3-methyl cyclohexane

C. 1-ethyl-2-methyl-4-chloro cyclohexane

D. 4-chloro-1-ethyl-2-methyl cyclohexane

Answer: D

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85. The correct IUPAC name of 1,3-dibromo butane-1-one is:

A. 2,4-dibromo butan-4-one

B. 3-bromo butanoyl bromide

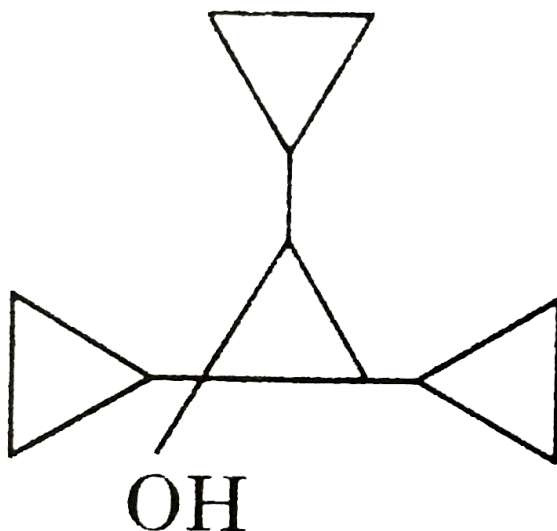
C. 3-bromo-3-methyl propanoyl bromide

D. β -bromo butyryl bromide

Answer: B

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86. Correct IUPAC name of this compound is:



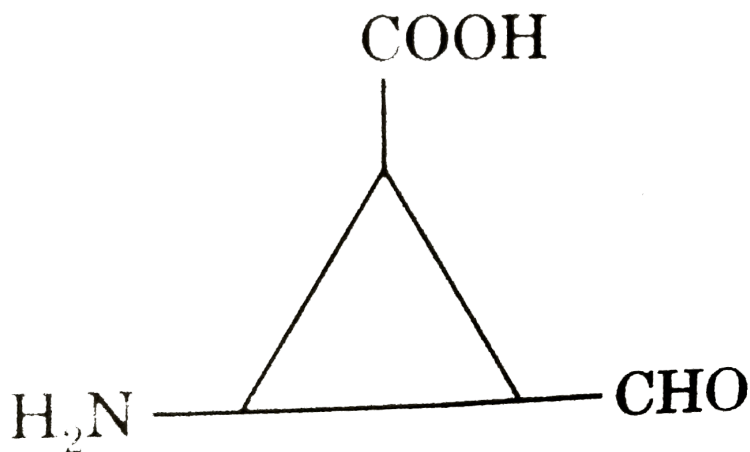
- A. tetracyclopropanol
- B. 1,2,3-tricyclopropyl cyclopropanol
- C. cyclopropan-1,2,3-tricyclopropane-2-ol

D. 1-hydroxy-1,2,3-tricyclopropyl cyclopropane

Answer: B

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87. IUPAC name of the



compound

is:

A. 3-amino-2-formyl cyclopropane carboxylic acid

B. 2-amino-3-formyl cyclopropane carboxylic acid

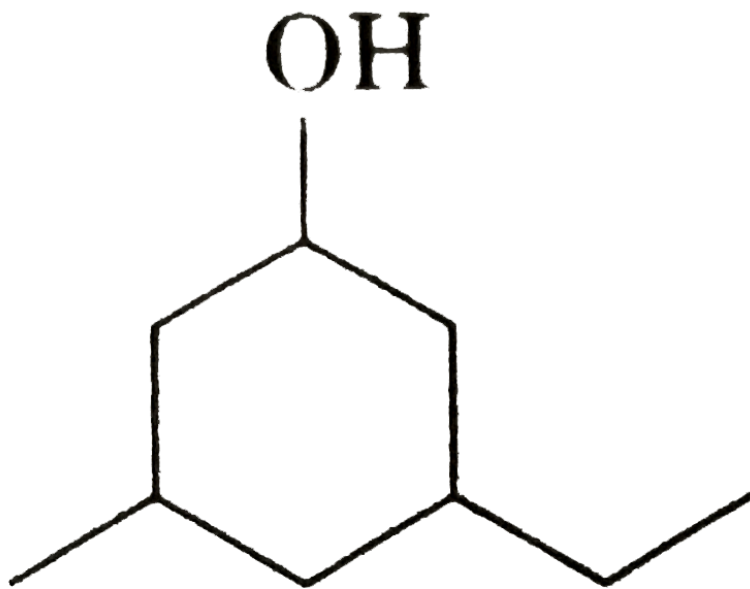
C. 3-amino-2-formyl cyclopropanoic acid

D. 2-amino-3-formyl cyclopropanoic acid

Answer: B



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88.

IUPAC

name of the compound is:

- A. 3-ethyl-5-methyl phenol
- B. 5-methyl-3-ethyl phenol
- C. 5-methyl-3-ethyl cyclohexanol
- D. 3-ethyl-5-methyl cyclohexanol

Answer: D



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89. The compound which has one isopropyl group is :

A. 2,2,3,3-tetramethylpentane

B. 2,2-dimethylpentane

C. 2,2-3-trimethylpentane

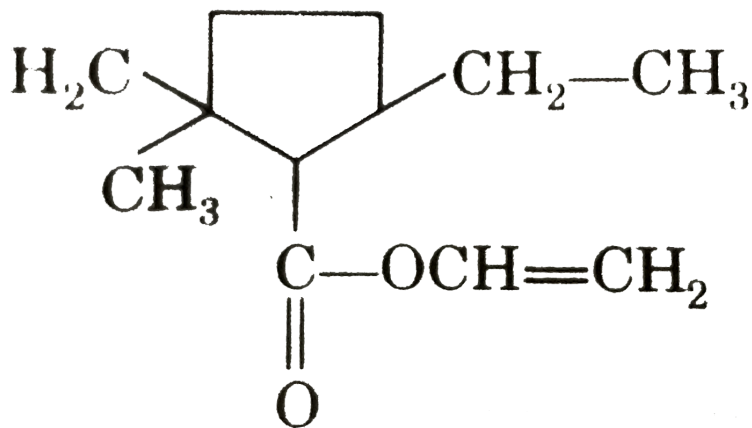
D. 2-methylpentane

Answer: D



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90. Given correct IUPAC name of:



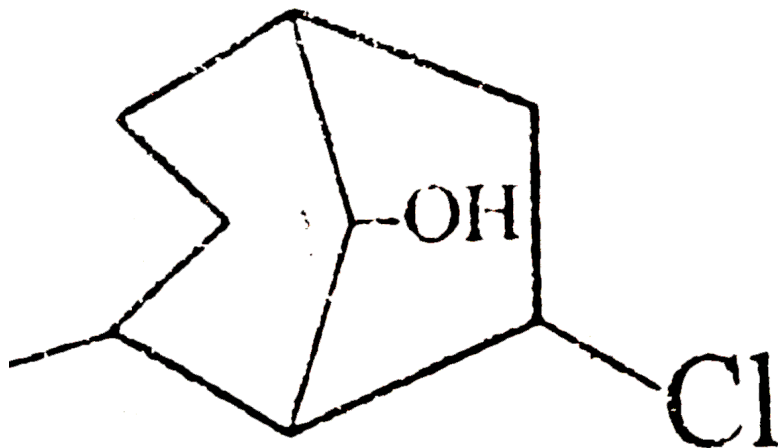
- A. Ethyl-2-ethyl-5,5 dimethyl cyclopentane carboxylate
- B. Ethenyl-2-ethyl-5,5-dimethyl cyclopentane carboxylate
- C. Ethenyl-5-ethyl-2,2-dimethyl cyclopentanoate
- D. Ethenyl-5-ethyl-2,2-dimethyl cyclopentane carboxylate

Answer: D



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91. What will be the correct IUPAC name for the following compound.

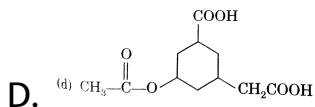
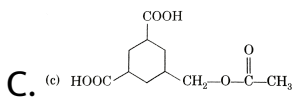
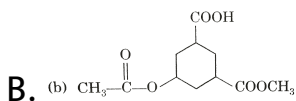
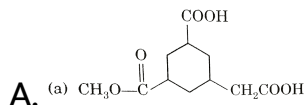


- A. 7-chloro-2-methyl bicyclo [3,2,1] octan-1-ol
- B. 7-chloro-2-methyl bicyclo [3,2,1] octan-8-ol
- C. 2-chloro-7-methyl bicyclo [3,2,1] octan-8-ol
- D. 2-chloro-7-methyl bicyclo [3,2,1] octan-1-ol

Answer: B

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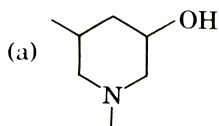
92. The structure of 3-(Carboxymethyl) 5-ethanoyloxy cyclohexane carboxylic acid is



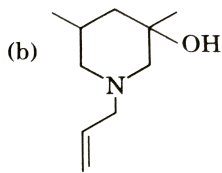
Answer: D

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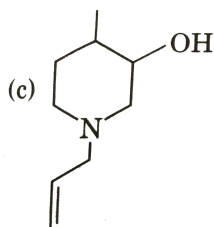
93. An organic compound A was found to contain DU 2, one 2° alcoholic group, one 3° amine and one 3° carbon atom compound A can be:



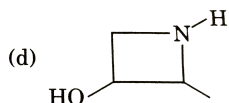
A.



B.



C.



D.

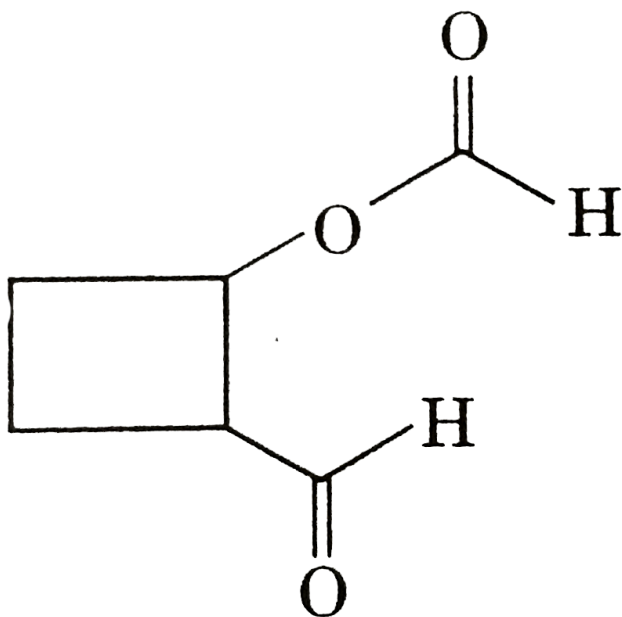
Answer: C

94.

IUPAC

name

of



A. Cyclobutane-1-carbaldehyde-2-carboxylate

B. 2-formyl cyclobutane carboxylate

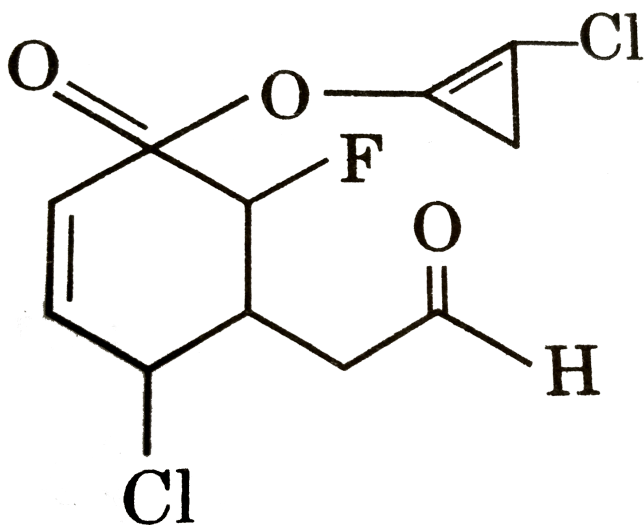
C. 2-formylcyclobutyl methanoate

D. 2-methanoyloxy cyclobutane carbaldehde

Answer: C

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95. IUPAC name of the following compound is/are:



A. (2-chlorocyclopropenyl)-4-chloro-2-fluoro-3

[2-

oxoformyl] cyclohex-5-ene-1-carboxylate

- B. (2-chlorocyclopropenyl)-4-chloro-6-fluoro-5 [2-oxoethyl] cyclohex-2-ene-1-carboxylate
- C. (2-chlorocyclopropenyl)-4-chloro-6-fluoro-5 [formylmethyl] cyclohexane-1-carboxylate
- D. (2-chlorocyclopropenyl)-4-chloro-2-fluoro-3 [formymethyl] cyclohe-5-ene-1-carboxylate

Answer: B

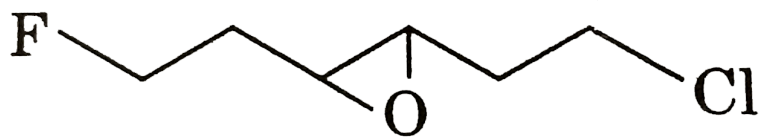


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Reasoning Type

1.

Statement-1:



correct

IUPAC name of this compound is 1-chloro-6-fluoro-3,4-epoxyhexane.

Statement-2: Cl and F both are groups without suffix, Cl comes before F in alphabetical order so numbering is done from this end.

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2. Statement-1: IUPAC name of

$H_2C = CH - CH_2 - C \equiv CH$ is pent-4-en-1-yne.

Statement-2: Alkene is preferred over alkyne when they are placed at same position.

- A. Both the statements are correct and Statement 2 is the correct explanation of Statement 1
- B. Statement 1 is correct but Statement 2 is wrong
- C. Both the statements are correct but Statement 2 is not the correct explanation of Statement 1
- D. Statement 1 is Incorrect but Statement 2 is correct

Answer: D

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3. Statement-1: 4-ethyl-3-bromo pentanoic acid is not the correct IUPAC name.

Statement-2: Selection of carbon chain in 3-bromo-4-ethyl pentanoic acid is not according to IUPAC rule.

- A. Both the statements are correct but Statement 2 is not the correct explanation of Statement 1
- B. Both the statements are correct but Statement 2 is the correct explanation of Statement 1
- C. Statement 1 is correct but Statement 2 is incorrect
- D. Both the statements are incorrect

Answer: B



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4. Statement-1: Homologous are having similar physical properties and different chemical properties.

Statement-2: They are having different molecular masses and having same F.G.

A. Both Statements are correct but Statement 2 is not the correct explanation of Statement 1

B. Both Statements are correct and Statement 2 is the correct explanation of Statement 1

C. Statement 2 is correct but Statement 1 is incorrect

D. Statement 1 is correct but Statement 2 is incorrect

Answer: C



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5. Statement-1: 3-Bromo-4-ethyl pentanoyl bromide is not the correct IUPAC name.

Statement-2: Selection of carbon chain in 3-bromo-4-ethyl pentanoyl bromide is not according to IUPAC rule.

A. Both the statements are correct but Statement 2 is not the correct explanation of Statement 1

B. Both the statements are correct but Statement 2 is the correct explanation of Statement 1

C. Statement 1 is correct but Statement 2 is incorrect

D. Both the statements are incorrect

Answer: A



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6. Statement-1: Ethanol and propane-1-ol are homologous.

Statement-2: They differ in their molecular formula by CH_2 .

A. Both Statements are correct but Statement 2 is not the correct explanation of Statement 1

B. Both Statements are correct and Statement 2 is the correct explanation of Statement 1

C. Statement 1 is correct but Statement 2 is incorrect

D. Statement 2 is correct but Statement 1 is incorrect

Answer: B



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7. Statement-1: In ethene both the carbon atoms are secondary.

Statement-2: Both the carbon atoms are bonded with double bond.

A. Both Statements are correct but Statement 2 is not the correct explanation of Statement 1

B. Both Statements are correct and Statement 2 is the correct explanation of Statement 1

C. Statement 1 is correct but Statement 2 is incorrect

D. Statement 2 is correct but Statement 1 is incorrect

Answer: D



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8. Statement-1: Pyridine is a tertiary amine.

Statement-2: in pyridine is attached with no hydrogen.

A. Both Statements are correct but Statement 2 is not the correct explanation of Statement 1

B. Both Statements are correct and Statement 2 is the correct explanation of Statement 1

C. Statement 1 is correct but Statement 2 is incorrect

D. Statement 2 is correct but Statement 1 is incorrect

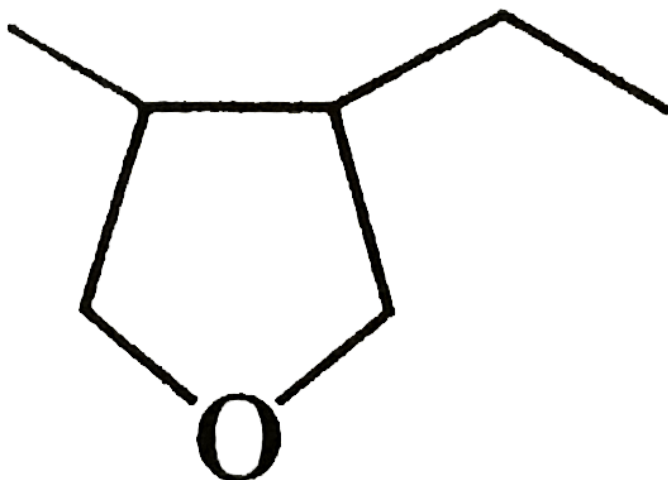
Answer: D



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9.

Statement-1:



IUPAC

name is 2-ethyl-3-methyl-1,4-epoxy butane.

Statement-2: Substituents are written in alphabetic order.

A. Both Statements are correct but Statement 2 is not the correct explanation of Statement 1

B. Both Statements are correct and Statement 2 is the correct explanation of Statement 1

C. Statement 1 is correct but Statement 2 is incorrect

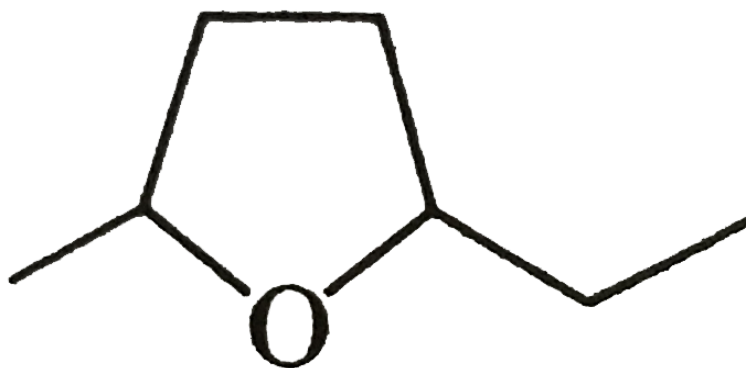
D. Statement 2 is correct but Statement 1 is incorrect

Answer:

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10.

Statement-1:



IUPAC

name is 1,4-epoxy-1-ethyl-4-methylbutane.

Statement-2: Substituents are written in alphabetic order.

- A. Both the statements are correct but Statement 2 is not the correct explanation of Statement 1
- B. Both the statements are correct but Statement 2 is the correct explanation of Statement 1
- C. Statement 1 is correct but Statement 2 is incorrect
- D. Both the statements are incorrect

Answer: D

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Multiple Objective Type

1. Which of the following is primary amine ?

- A. t-butyl amine
- B. Aniline
- C. Sec-butylamine
- D. N-methyl methanamine

Answer: A::B::C

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2. Select incorrect IUPAC name(s).

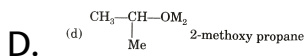
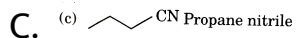
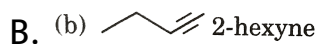
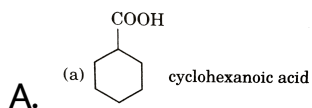
- A. 1-amino pentane-1,4-dione
- B. 3-chloro cyclohexanoic acid
- C. Propane-1,3-dicarboxylic acid
- D. 2,3-dimethyl cyclohex -1-ene

Answer: A::B::C::D



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3. Select option with correct IUPAC names.

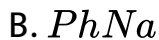
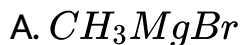


Answer: B::D



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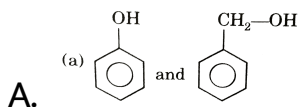
4. Which of the following is/are organic compound(s)?



Answer: A::B::C::D

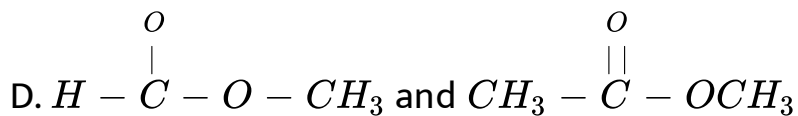
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5. Which of the following are homologous ?





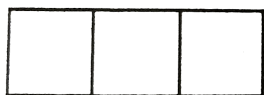
and



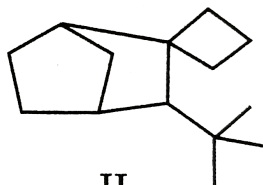
Answer: C::D

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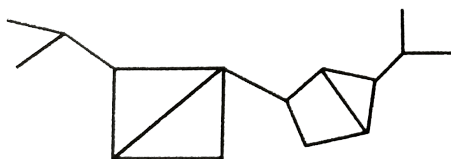
6.



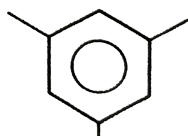
I



II



III



IV

6.

Find out the number of 1° , 2° and 3° carbon atoms in the above compound.

A. I is having four 2° and four 3° carbons

B. II is having three 1° , six 2° three 3° and two 4° carbons

C. III is having four 1° two 2° , eight 3° carbons and one 4° carbon

D. IV is having three 1° , three 2° and three 3° carbons

Answer: A::B::C::D



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7. Which of the following is not a part of a homologous series ?

A. CH_3NH_2 , $(CH_3)_2NH$, $(CH_3)_2N$

B.



D. None of the above

Answer: A::B::C



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8. Which of the following is/are incorrect IUPAC name.

A. 4-chloro-3-methyl cyclopentanol-1

B. 1-amino-3-bromo hexan-1-one

C. 4-chloro-3-methyl cyclohexane carboxylic acid

D. 3-bromo-1-methyl hexan-1-ol

Answer: A::B::D



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9. Neopentyl alcohol is:

A. 1° alcohol

B. 2° alcohol

C. 3° alcohol

D. an ether

Answer: A



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10. Which of the following is/are not the correct IUPAC name ?

A. 2-Ethyl-3-methyl pentane

B. 4-Formyl pentane-2-ol

C. 3-Carbocyclopentanoic acid

D. Cyclohexanoic acid

Answer: A::B::C::D



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11. Which of the following is/are incorrect IUPAC names ?

A. 2-Ethyl-3-methyl pentane

B. 1-Chloro-4-methyl pentane-1-ene

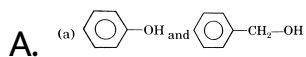
C. Spiro [3.4] octan-5-oic acid

D. 2,3-Dimethyl cyclohex-1-ene

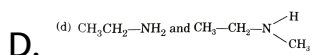
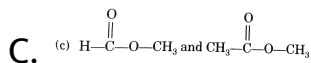
Answer: A::B::C::D

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12. Which of the following represent correct pair of homologous ?



B. $MeOH$ and $MeCH_2CH_2OH$



Answer: B::C



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13. C_nH_{2n-2} represents the homologous series of:

A. alkyne

B. diene

C. cycloalkene

D. spiroalkane

Answer: A::B::C::D



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14. Select correct IUPAC name:

A. methane-1,1,1,1-tetra carboxylic acid

B. 5-carboxy-heptane-1,7-dioic acid

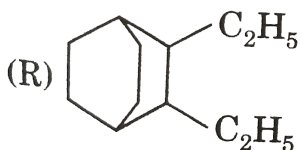
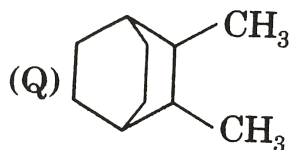
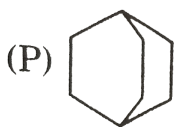
C. 2-chloro-ethanoyl chloride

D. 1-bromo-3-fluoro-4-methyl cyclohexane

Answer: A::C



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15.

Select

the correct option.

A. P and Q are homologous of each other

B. Q and R are homologous of each other

C. R is next higher homologous of P

D. R is next homologous of Q

Answer: A::B



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16. Which of the following statements is/are correct ?

A. Oxalic acid is a dicarboxylic acid

B. Functional group present in picric acid is $-COOH$.

C. The IUPAC name of lactic acid is 2-hydroxy propanoic acid.

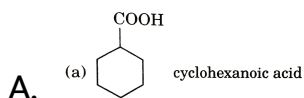
D. IUPAC name of acetyl acetone is pentane-2,4-dione.


Answer: A::C::D




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17. Select option with correct IUPAC names.



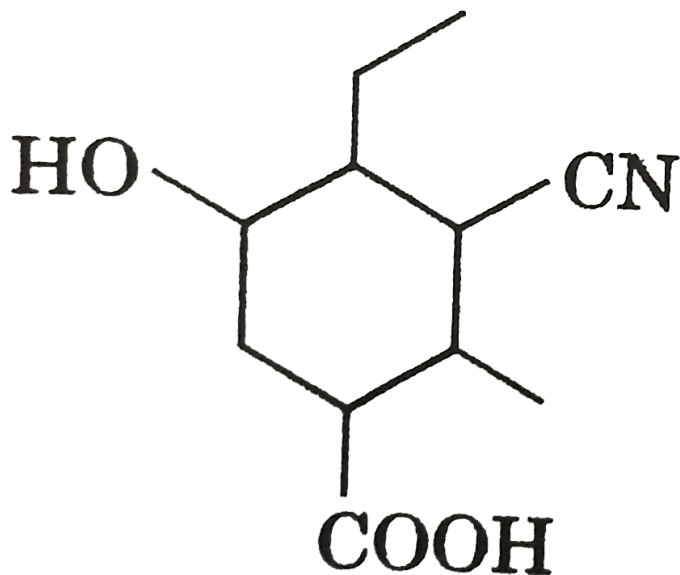
B. (b)  2-hexyne

C. (c)  propanenitrile

D. $CH_3 - \underset{\substack{| \\ CH_3}}{CH} - OMe$ 2-methoxy propane

Answer: B::D

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18.

Select correct statement.

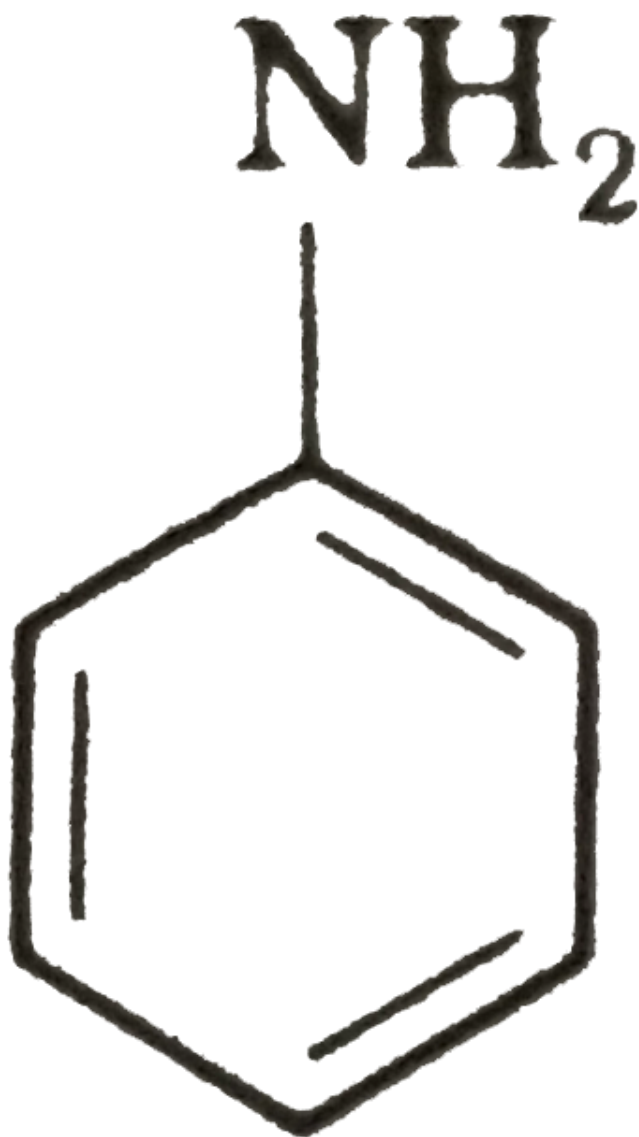
- A. It is a homocyclic compound
- B. It is having -COOH as the principal functional group
- C. It is having isocyanide as one of the functional group
- D. It is having ethyl at 2nd position

Answer: A::B



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19. For the compound



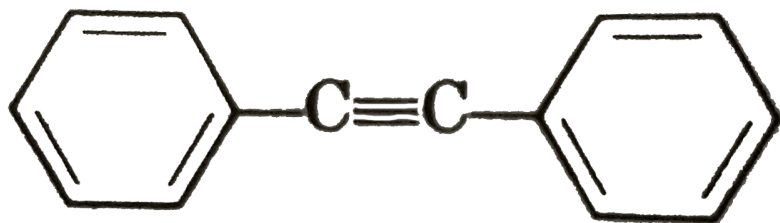
select the

incorrect statement.

- A. Compound is homocyclic hydrocarbon
- B. Number of σ bonds are 8
- C. Degree of unsaturation of the compound is 3
- D. It is a heterocyclic compound

Answer: A::B::C::D

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20.

compound has:

- A. 8π bond

B. degree of unsaturation is 10

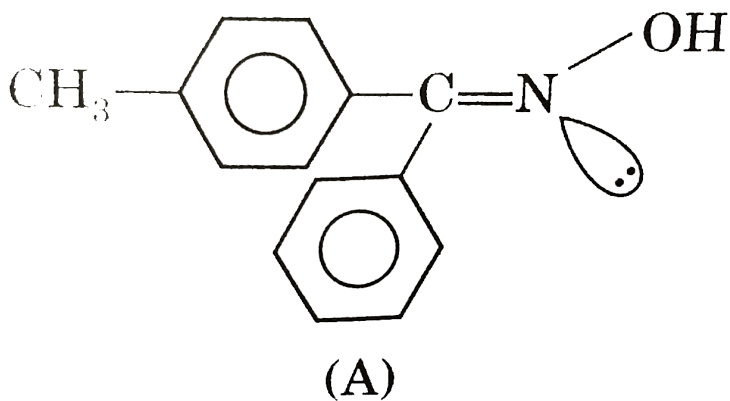
C. 3° hydrogen

D. four 3° carbon

Answer: A::B

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21. Correct statement about given ketoxime is:



A. (A) is named as syn-p-tolylphenyl ketoxime

B. (A) is named as anti-phenyl-p-tolyl ketoxime

C. Compound (A) is Z isomer

D. Compound (A) is E isomer

Answer: A::B::C

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22. Which of the following IUPAC names (s) is/are correct?

A. 2,2,3-Trimethyl hexane

B. 3-[1,2-Dimethyl Propyl]-5-Propyl Decane

C. 3,4 Dimethyl-7-(2 methyl propyl) Undecane

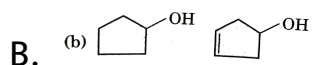
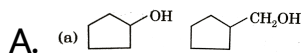
D. 3-Ethyl-2,6-Dimethyl heptane

Answer: A::C::D

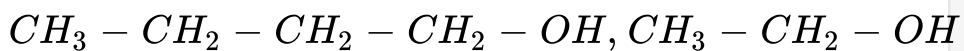


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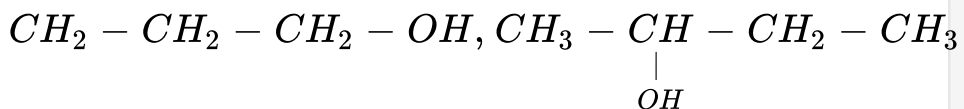
23. Which of the following pairs is/are homologous ?



C.



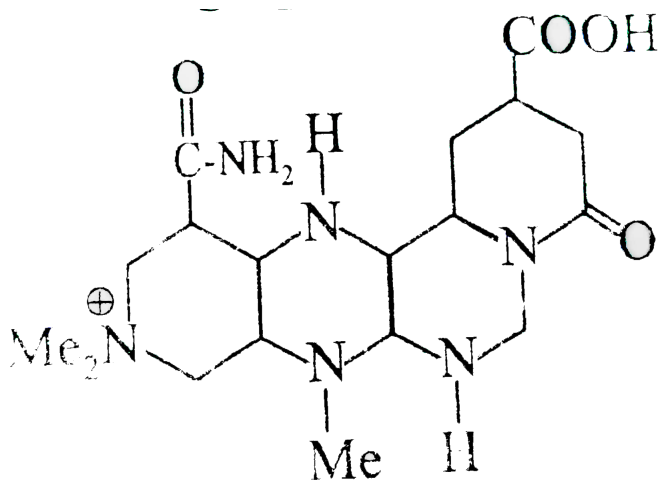
D.



Answer: A::C::D



Comprehension 1



1.

How many different type of functional groups are present in given compound.

A. 6

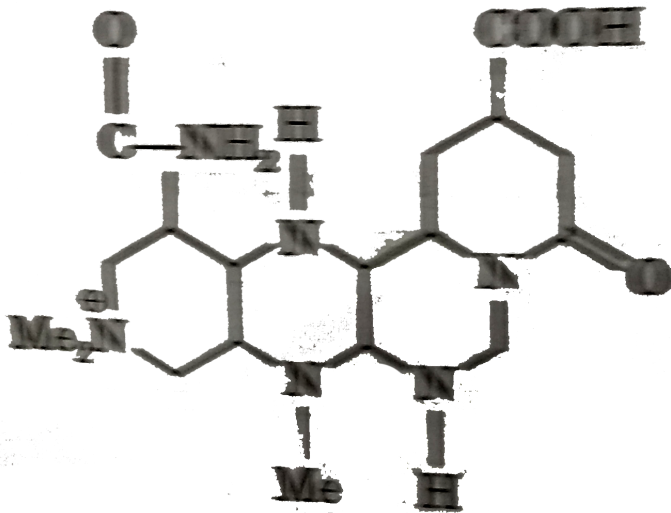
B. 5

C. 4

D. 3

Answer: A

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2.

Degree of unsaturation of this compound is:

A. 10

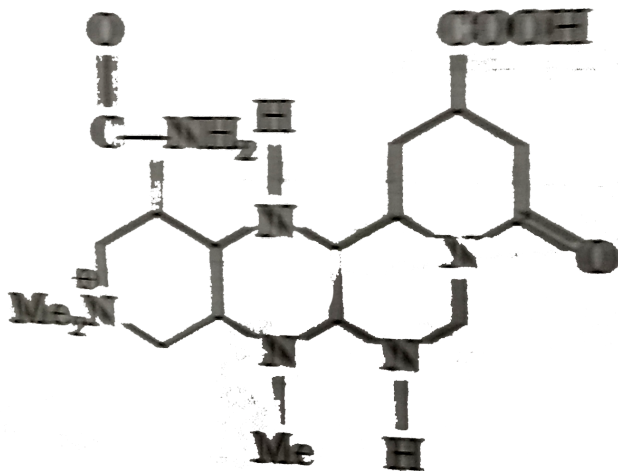
B. 9

C. 8

D. 7

Answer: D

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3.

Number of 2° nitrogens present is given compound

A. 2

B. 3

C. 4

D. 5

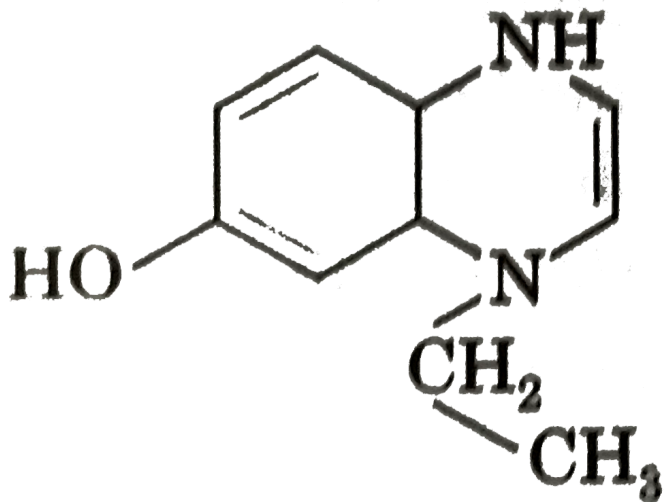
Answer: A



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Comprehension 2

1. For the given compound answers the following questions:



The number of 3° carbon present in compound is:

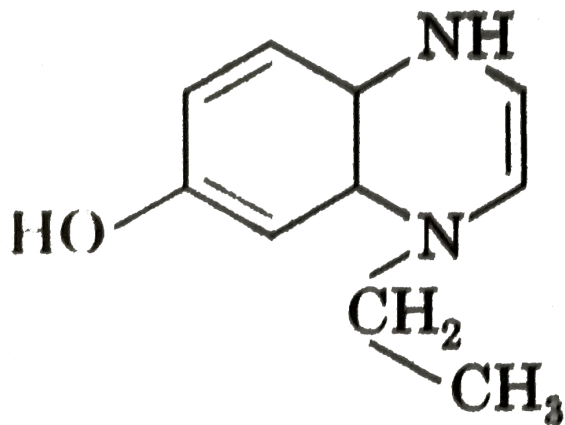
- A. 0
- B. 1
- C. 2
- D. 3

Answer: A



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2. For the given compound answers the following questions:



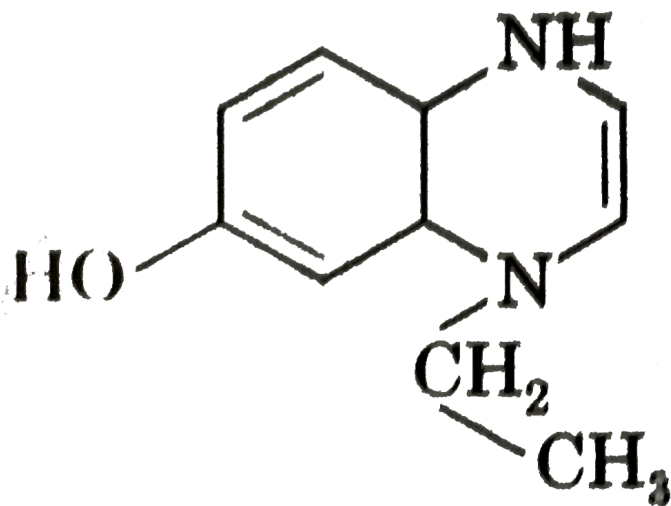
The degree of unsaturation is:

- A. 2
- B. 4
- C. 5
- D. 3

Answer: C

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3. For the given compound answers the following questions:



The number of functional group present are (Excluding C=C bonds):

A. 2

B. 3

C. 4

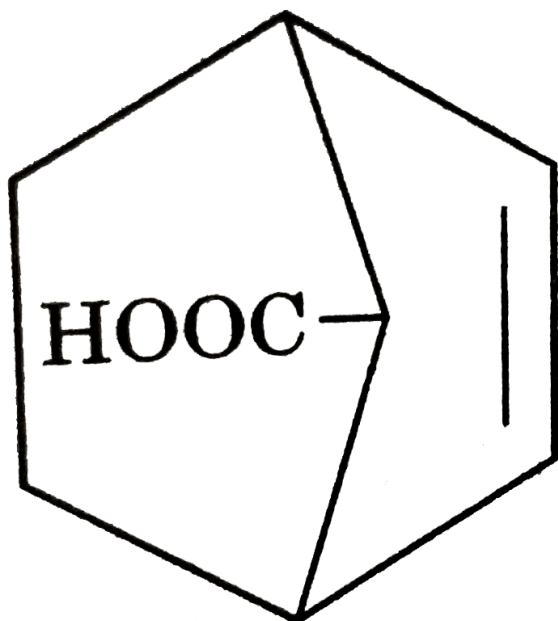
D. 5

Answer: B



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Comprehension 3



1.

Degree of unsaturation of this compound is:

A. 2

B. 3

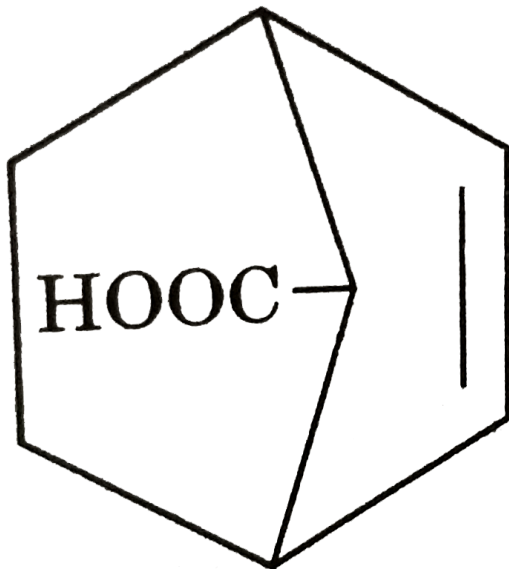
C. 4

D. 5

Answer: C



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2.

Position of $-COOH$ in IUPAC name of this compound is:

A. 1

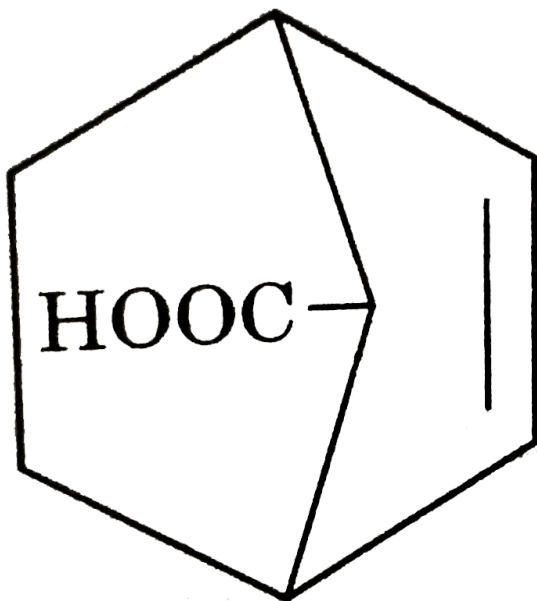
B. 2

C. 6

D. 7

Answer: D

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3.

Suffix of this compound in its correct IUPAC name is:

A. enoic acid

B. enecarboxylic acid

C. enyloic acid

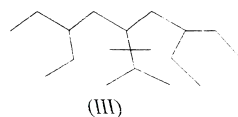
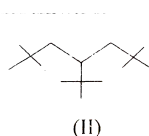
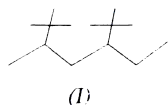
D. ene

Answer: B

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Comprehension 4

1. Observe the following compounds answer the following question



Which one of three compounds contains maximum number of carbon atoms in its principal carbon chain ?

A. I

B. II

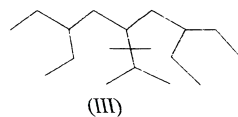
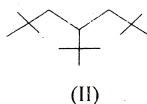
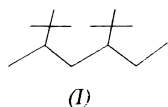
C. III

D. Equal in I and III

Answer: C

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2. Observe the following compounds answer the following question



Which one of these three compounds contains maximum number of side chains in its principal carbon chain ?

A. I

B. II

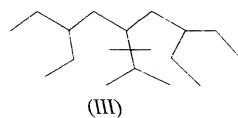
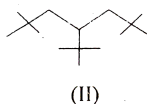
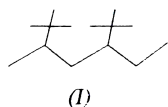
C. III

D. Equal in I and II

Answer: A

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3. Observe the following compounds answer the following question



Which one of these three compounds contains maximum number of quaternary carbon atoms (4°) ?

A. I

B. II

C. II

D. Equal in II and III

Answer: B



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Match The Column Type

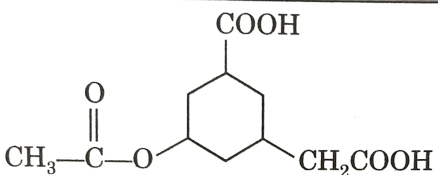
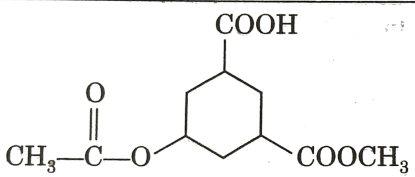
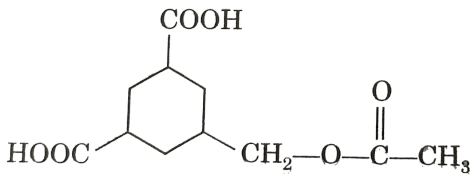
1. Match the following columns:

Column-I		Column-II	
(a) Isobutane	(p)	Contains 1° carbon atoms	
(b) Neohexane	(q)	Contains 2° carbon atoms	
(c) Isooctane	(r)	Contains 3° carbon atoms	
(d) Isodecane	(s)	Contains 4° carbon atoms	
	(t)	Parent carbon chain contains odd number of carbon atoms in IUPAC	



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2. Match the following columns:

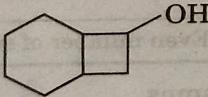
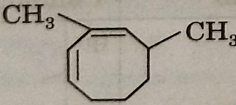
Column-I	
(a)	
(b)	
(c)	

Column-II	
(p)	5-(Ethanoyloxymethyl) cyclohexane-1,3-dicarboxylic acid
(q)	Methyl 1-(3,5-dicarboxy cyclohexyl) methanoate
(r)	3-(Carboxymethyl)-5-ethanoyloxy cyclohexane carboxylic acid
(s)	3-Ethanoyloxy-5-methoxycarbonyl cyclohexane carboxylic acid



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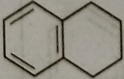
3. Match the following columns:

Column-I (Wrong IUPAC name)		Column-II (Reason)	
(a)	$\begin{array}{c} \text{CH}_3-\text{CH}_2-\text{CH}-\text{CH}_2-\text{CH}_3 \\ \\ \text{CN} \\ \text{Pentane-3-cyanide} \end{array}$	(p)	Numbering of selected carbon chain is wrong.
(b)	$\begin{array}{c} \text{Br} \quad \text{Cl} \\ \quad \\ \text{CH}_2=\text{C}-\text{CH}-\text{CH}_3 \\ \text{2-chloro-2-bromo-3-butene} \end{array}$	(q)	Selection of carbon chain is wrong.
(c)	 <p>Bicyclo [4,2,0] octan-2-ol</p>	(r)	Selection of principal functional group is wrong.
(d)	 <p>3,5-dimethyl octa-1,3-diene</p>	(s)	Alphabetic order is not considered for writing the name.



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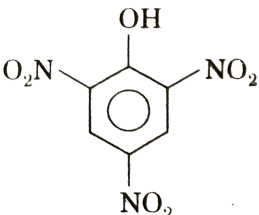
4. Match the following columns:

Column-I		Column-II (DOU)	
(a)	Azulene	(p)	4
(b)	Napthalene	(q)	5
(c)	Tetraline 	(r)	6
(d)	1,2,3-tricyclo propylcyclo propane	(s)	7



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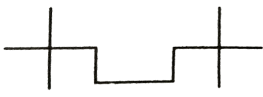
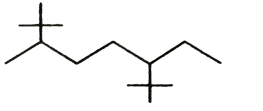
5. Match the following columns:

Column-I	Column-II	Column-III
(a) $\text{CH}_3\text{—CHCH—CHO}$	(A) Picric acid	(p) Ethanenitrile
(b) 	(B) Acetonitrile	(q) But-2-enal

(c)	CH_3CN	(C)	Crotonaldehyde	(r)	2,4,6-Trinitrophenol
(d)	$\text{CHCl}=\text{CCl}_2$	(D)	Westro sol	(s)	Trichloroethene

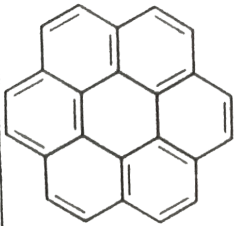
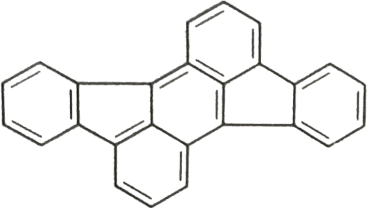
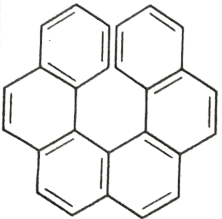
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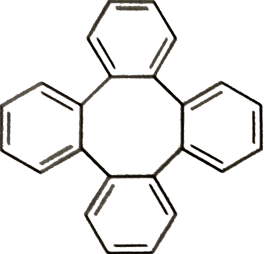
6. Match the following columns:

Column-I		Column-II (DOU)	
(a)		(p)	Even number of 1° carbon atoms
(b)		(q)	Even number of 2° carbon atoms
(c)		(r)	Even number of 3° carbon atoms
(d)		(s)	Even number of carbon atoms in the parent chain
		(t)	Even number of side chain

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7. Match the following columns:

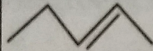

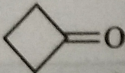
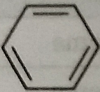
Column-I (Compound)		Column-II (DOU)	
(a)	 <p>Coronene</p>	(p)	17
(b)	 <p>Rubicene</p>	(q)	18
(c)	 <p>Hexahelicene</p>	(r)	19

(d)	 <p>Tetraphenylene</p>	(s)	20
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8. Match the following columns:

Column-I		Column-II	
(a)		(p)	Homocyclic hydrocarbon
(b)		(q)	Homocyclic compound
(c)		(r)	Heterocyclic compound
(d)		(s)	Aliphatic hydrocarbon
		(t)	Compound contains π -electrons



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9. Match the following columns:

Column-I		Column-II	
(a)	3-chloro-2-bromo-4-ethyl pentanal	(p)	Selection of parent carbon chain is not according to rule
(b)	3-ethyl pentan-4-one	(q)	Numbering is not correct
(c)	3-oxo pentanoic acid	(r)	Name is not written in alphabetical order
(d)	Pent-4-en-1-yne	(s)	It is a correct name

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10. Match the following columns:

Column-I (Common Name)		Column-II (Systematic)	
(a)	Cinnamic acid	(p)	2-oxo propanoic acid
(b)	Anisole	(q)	Methoxy benzene
(c)	Pyruvic acid	(r)	Ethane 1, 2-dioic acid
(d)	Oxalic acid	(s)	3-phenyl prop-2-enoic acid

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11. Match the following columns:

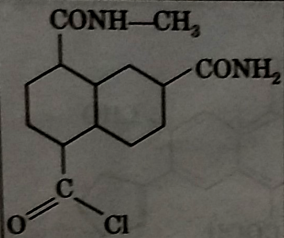
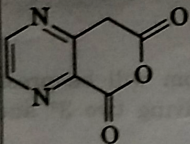
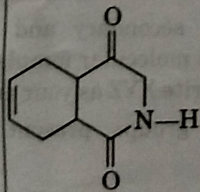
Column-I (Common Name)		Column-II (Systematic)	
(a)	Succinic acid	(p)	Propane-1, 2, 3 - triol

(b)	Glycerol	(q)	1,1,2-trichloroethene
(c)	Westrosol	(r)	Butane-1,4-dioic acid
		(s)	sp^2 carbon is present



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12. Match the following columns:

Column-I (Common Name)	Column-II (Systematic)
(a) 	(p) Three different type functional group (excluding C=C and C≡C bond)
(b) 	(q) Degree of unsaturation-5
(c) $\text{H}_2\text{C}=\text{CH}-\underset{\begin{array}{c} \\ \text{C}-\text{Cl} \\ \\ \text{O} \end{array}}{\text{CH}}-\text{C}\equiv\text{CH}$	(r) Degree of unsaturation-4
(d) 	(s) Double bond equivalent-6
	(t) Double bond equivalent-7



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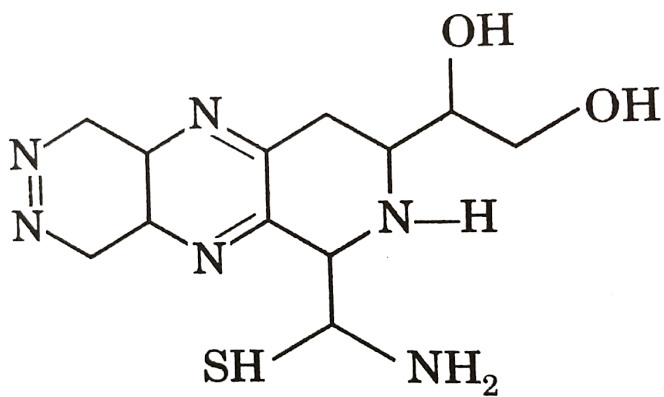
1. How many alkyl groups are possible for iso-octane?

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2. Total number of 1° and 3° alcohols possible for $C_4H_{11}OH$.

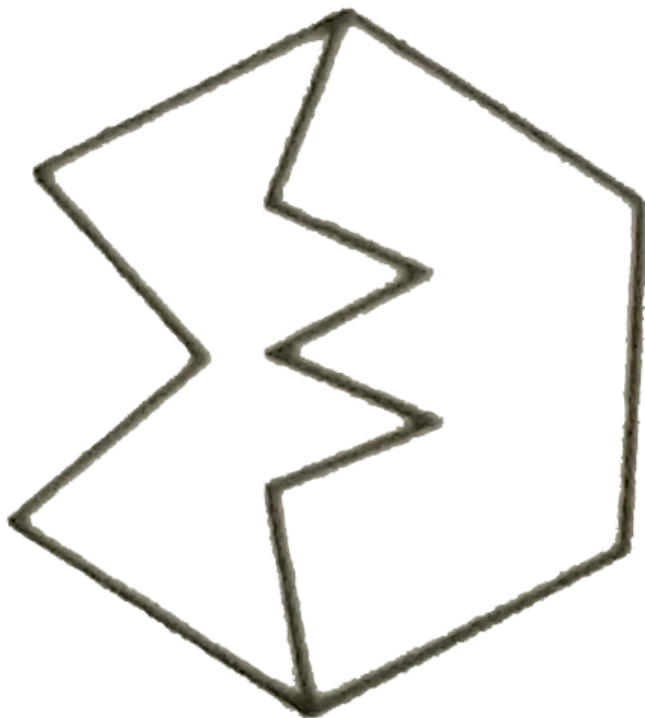
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3. Total number of different functional groups in following compound :



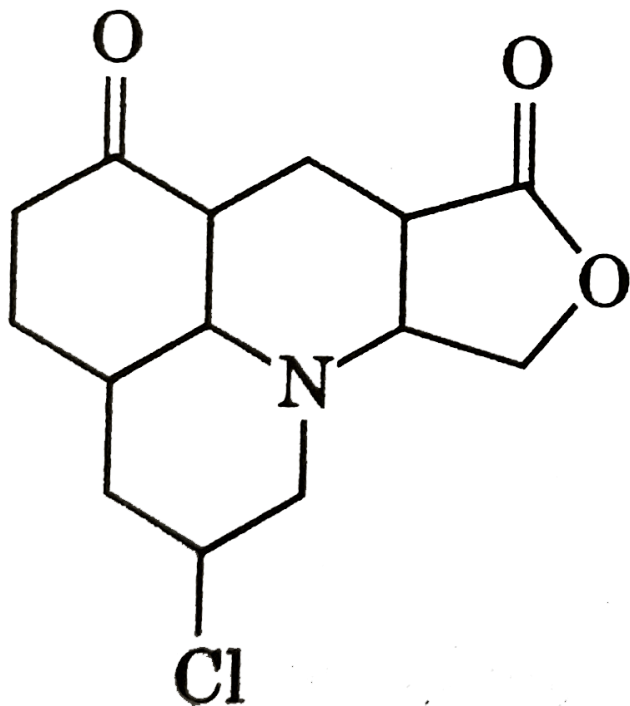
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4. The IUPAC name of the following compound is bicyclo [x,y,z] dodecane. What is the value of x,y and z?



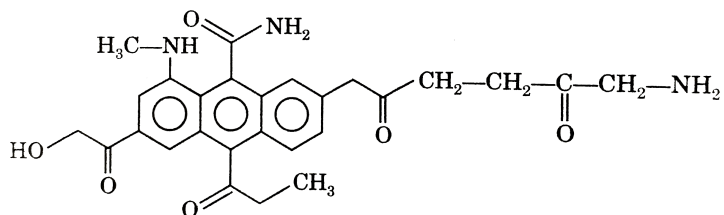
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5. Total number of functional groups present in following compound:



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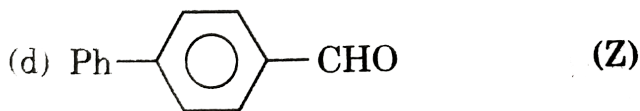
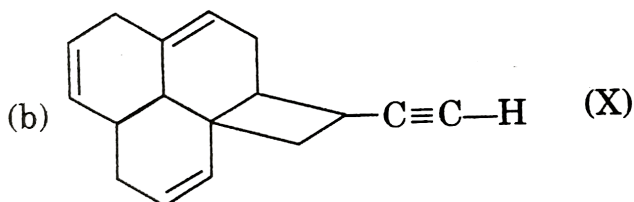
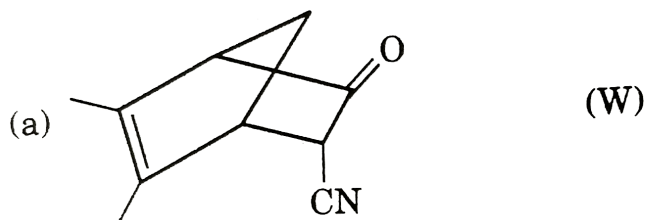
6. How many different type of functional groups are present in following structure ?(Excluding C = C)





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7. Write D.B.E (Double bond equivalent) for the following compound:



[Write answer of part (a),(b),(c) and (d) in the same order and present the four digit number as answer in OMR sheet.

For example.]

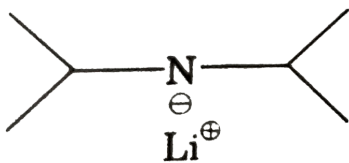
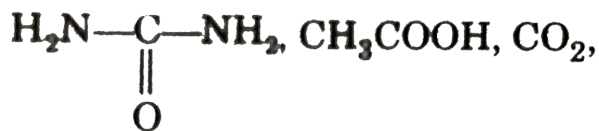


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8. How many compounds are organic compounds among the compounds given below ?



, NaHCO_3 , CCl_4 , PhNa , CH_3MgBr

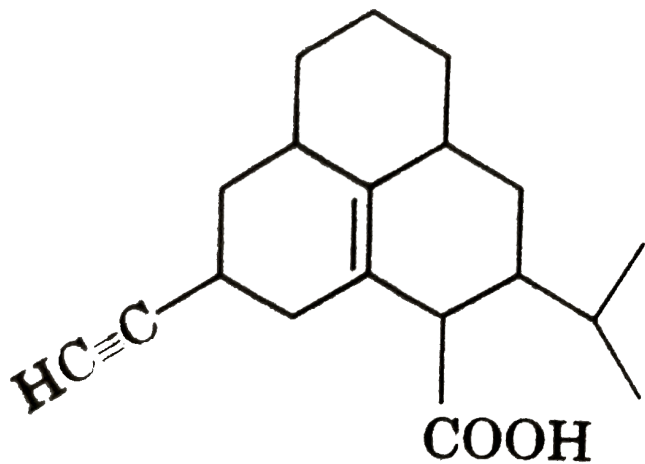


, HCOOH



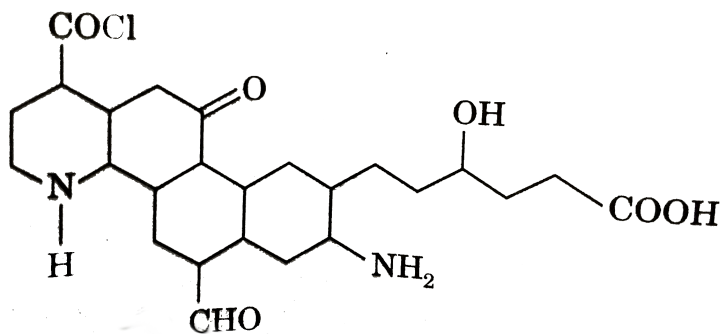
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9. Total number of 3° carbon atoms present in compound given below:



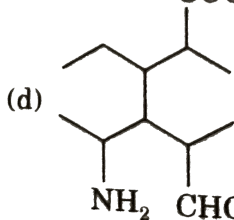
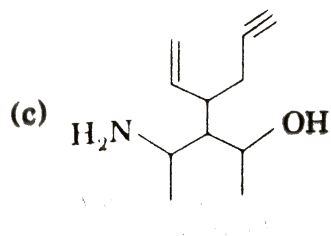
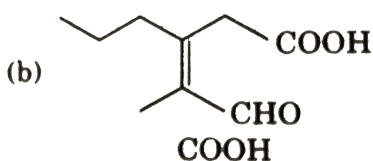
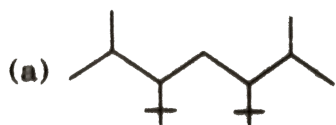
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10. How many functional groups are present in the given compound ?



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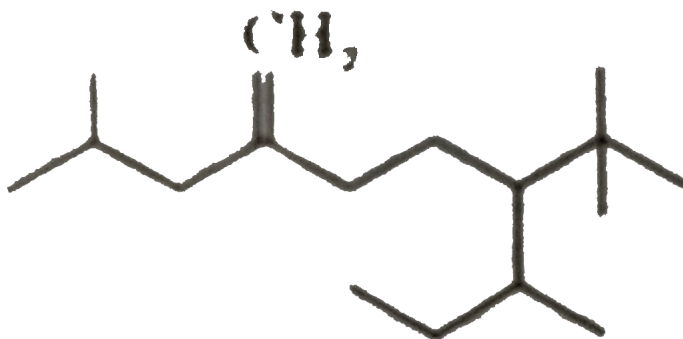
11. Find out number of C-atoms present in principal chain according to IUPAC rules.



[Write answer of part (a),(b),(c) and (d) in the same order and present the four digit number as answer in OMR sheet.

For example.]

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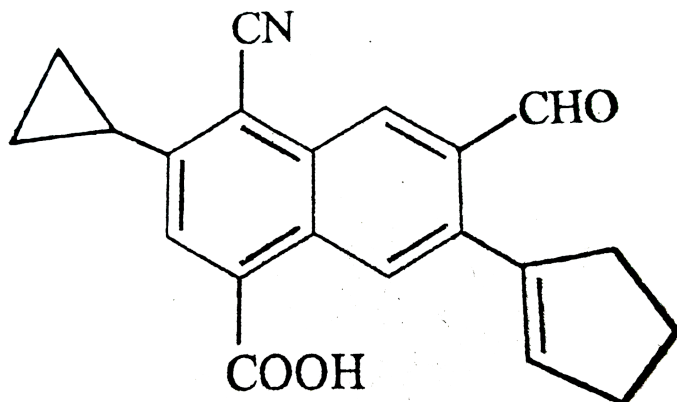


12.

Number of carbon atoms in parent 'C' chain

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13. Degree of unsaturation for following structure is 'x' then



Fill $\frac{x}{2}$ in



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



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



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16. Number of secondary carbon atoms present in benzene, o-xylene, toluene and mesitylene are respectively:

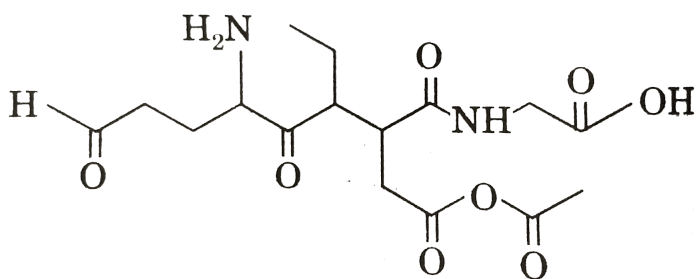


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17. The number of primary, secondary and tertiary amines possible with the molecular formula C_3H_9N respectively.

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18. Number of functional groups present in the following compounds is:



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19. What is the degree of unsaturation of cubane?

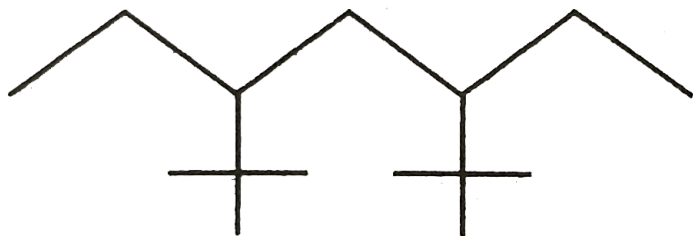
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20. Number of σ bond in β -naphthol are:

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21. How many linear dienes are there with molecular formula C_6H_{10} ? (Ignore cis-trans isomers)

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22.

(a) Number of carbon atoms in the principal carbon chain

(b) Number of side chain

(c) Number of methyl substituent in the principal carbon chain

(d) Number of ethyl substitute in principal carbon chain

[Write answer of part (a),(b),(c) & (d) in the same order and present the four digit number as answer.]



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23. Calculate the value of z:



where

$$z = 3 \times \frac{\text{Number of } \sigma \text{ bonds}}{DBE} \times \frac{3^\circ \text{ Carbon atoms}}{\text{Number of } \pi \text{ bonds}}$$

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24. (a) 3,6-Bis-(1,1-dimethylethyl) octane

(b) Octa-4,7-dien-2-amine

(c) 3-Hydroxymethyl cyclohexanecarboxylic acid

(d) 2-Nitropent-3-ene

If the given IUPAC name is correct then write 1 and if it is wrong then write 2

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