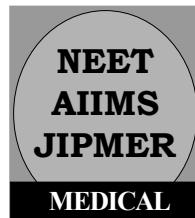


CHEMICA POINT

A Challenge in Chemistry

IUPAC



Instructor: ER. S.K. SINGH (B. Tech, M.Tech) M.N.N.I.T. Alld.

1. The name of $\text{CH}_3\text{CH}(\text{C}_6\text{H}_5)\text{CH}_2\text{CH}(\text{OH})\text{CH}_2\text{CH}_3$ is:

 - 1-ethyl-3-phenyl-1-butanol
 - 2-phenyl-4-hexanol
 - 5-phenyl-3-hexanol
 - 5-benzyl-3-hexanol

2. The name of  is:

 - bicyclo [2.2.1] heptane
 - methylene cyclohexane
 - ethylene cyclopentane
 - none of these

3. The IUPAC name of $\text{CH}_2 = \text{CH}_2$ is:

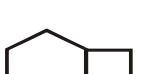
 - 3-propyl-1-hexene
 - 3, 3-dipropyl-1-propene
 - 4-ethenyl-heptane
 - none of these

4. The IUPAC name of $\text{CH}_3\text{CH}_2\text{CH}(\text{CH}_3)\text{CH}(\text{CH}_3)\text{CH}_2\text{CH}(\text{CH}_3)_2$ is:

 - 3, 4-dimethyl-6-ethylheptane
 - 2-ethyl-4, 5-dimethylheptane
 - 3, 4, 6-trimethyloctane
 - 3, 5, 6-trimethyloctane

5. The IUPAC name of $\text{CH}_3\text{CH}_2\text{CH}(\text{CH}_3)\text{CH}(\text{CH}_3)\text{CH}(\text{CH}_3)\text{CH}_2\text{CH}_3$ is:

 - 2, 5-dimethyl-3-propylheptane
 - 3, 6-dimethyl-5-propylheptane
 - 3-methyl-5-isopropyloctane
 - none of these

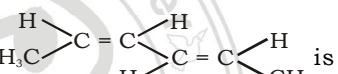
6. The name of the compound  is:

 - bicyclo [2.2.2]octane
 - bicyclo [3.2.1] octane
 - bicyclo [4.1.1] octane
 - bicyclo [4.2.0] octane

7. The IUPAC name of $\text{CH}_3\text{CH}(\text{CH}_3)\text{CH}_2\text{CH}(\text{CH}_3)\text{CH}_2\text{CH}_3$ is:

8. The IUPAC name of $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}(\text{CH}_3)\text{CH}(\text{CH}_3)\text{CH}_2\text{CH}_3$ is:

 - 2, 2-dimethyl-4-ethylpentane
 - 3, 5,5-trimethylhexane
 - 2, 2,4-trimethylhexane
 - 1-tert. butyl-2-ethylpropane

9. The correct name of the structure  is:

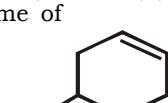
 - (E), (E)-2, 4-hexadiene
 - (Z), (Z)-2, 4-hexadiene
 - (E), (Z)-3, 5-hexadiene
 - (Z), (E)-2, 4-hexadiene

10. Which of the following is a cumulated diene?

 - 1,3-Pentadiene
 - 1, 4-Pentadiene
 - 2,3-Pentadiene
 - 1, 5-Hexadiene

11. The IUPAC name of $\text{CH}_3\text{C}(\text{CH}_3)=\text{C}(\text{CH}_3)\text{CH}_2\text{CH}_3$ is:

 - 3-methyl-4-hexyne
 - 4-methyl-2-hexyne
 - 4-ethyl-2-pentyne
 - 2-ethyl-3-pentyne

12. The IUPAC name of  is:

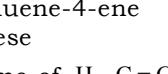
 - 3, 5-dimethylcyclohexene
 - 4, 6-dimethylcyclohexene
 - 3-methyltoluene-4-ene
 - none of these

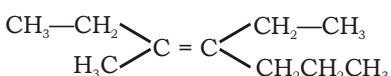
13. The IUPAC name of $\text{H}-\text{C}\equiv\text{C}-\text{CH}_2\text{CH}=\text{CH}_2$ is:

 - 3-acetylyn-1-propene
 - 1-penten-4-yne
 - acetylene-1-propene
 - none of these

14. The IUPAC name of $\text{CH}_3\text{CH}(\text{CH}_2\text{CH}_3)\text{CH}=\text{CH}_2$ is:

 - 4-hydroxypentene-1
 - ethenylisopropanol
 - 4-penten-2-ol
 - 2-hydroxy-4-pentene

15. The IUPAC name of  is:



is:

- (a) 4-ethyl-3-methyl-*trans*-3-heptene
 (b) 4-ethyl-3-methyl-*cis*-3-heptene
 (c) 5-ethyl-6-methyl-*trans*-5-heptene
 (d) 5-ethyl-6-methyl-*cis*-5-heptene

16. 1, 2-dimethylcyclopropane exhibits

- (a) geometrical isomerism (b) position isomerism
 (c) optical isomerism (d) nuclear isomerism

17. How many structural isomers can compounds with the molecular formula C_4H_8 have?

- (a) One (b) Two
 (c) Three (d) Four

18. How many structures can heptane (C_7H_{16}) have?

- (a) Five (b) Six
 (c) Eight (d) Nine

19. Which of the following can have functional-group isomerism?

- (a) $\text{CH}_3\text{OC}_2\text{H}_5$ (b) $\text{CH}_3\text{CH}_2\text{NH}_2$
 (c) $\text{CH}_3\text{CH}_2\text{CH}=\text{CH}_2$ (d) none of these

20. How many stereoisomers of cyclopropane 1, 2-dicarboxylic acid are possible?

- (a) One (b) Two
 (c) Three (d) Four

21. Which of the following statements is true about a homologous series?

- (a) Adjacent members of a group differ by a mass of 14.
 (b) Adjacent members of a group differ by one $-\text{CH}_2$ group.
 (c) Members of a homologous series can be prepared by the same general methods.
 (d) Members of a homologous series have the same physical and chemical properties.

22. The large number of organic compounds is due to

- (a) the valency of carbon
 (b) the small size of carbon
 (c) a special property of carbon known as catenation
 (d) none of these

23. How many isomers are possible for the alkyl group C_4H_9 ?

- (a) Two (b) Three
 (c) Four (d) Five

24. Which of the following compounds will have only primary and tertiary carbon?

- (a) Pentane (b) 2-Methylbutane
 (c) 2,3-Dimethylbutane (d) 2-Bromo-2-methylpropane

25. Which of the following compounds will have only primary and secondary carbon?

- (a) Propane (b) 2,2,3-Trimethylpentane
 (c) 2-Methylpropane (d) *n*-Propylbromide

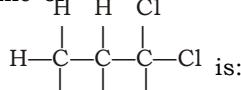
26. Which of the following compounds has an isopropyl group?

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

27. The general molecular formula of an alkyne is:

- (a) $\text{C}_n\text{H}_{2n+2}$ (b) C_nH_{2n}
 (c) $\text{C}_n\text{H}_{2n-2}$ (d) $\text{C}_n\text{H}_{2n+1}\text{OH}$

28. The IUPAC name of



- (a) 1,2-dichloropropane (b) 3,3-dichloropropane
 (c) 1,1-dichloropropane (d) dichloropropane

29. The IUPAC name of $(\text{CH}_3)_2\text{CHCH}(\text{CH}_3)_2$ is

- (a) 1,1,2,2-tetramethylethane

- (b) 1,2-di-isopropylethane

- (c) 2,3-dimethylbutane

- (d) 2,3,3-trimethylbutane

30. The IUPAC name of $\text{CH}_3\text{OCH}_2\text{CH}_2\text{CH}_3$ is:

- (a) propoxymethane (b) methoxypropane
 (c) methylpropyl ether (d) propylmethyl ether

31. The IUPAC name of $\text{Cl}-\text{CH}_2-\underset{\text{Cl}}{\text{CH}}-\text{CH}_2\text{Cl}$ is:

- (a) 1,2,3-trichloropropane

- (b) 1,2-dichloropropyl chloride

- (c) 1,1-dichloroisopropyl chloride

- (d) propane trichloride

32. The IUPAC name of CH_3CHO is:

- (a) acetaldehyde (b) formyl methane

- (c) ethanal (d) methylaldehyde

33. The IUPAC name for $\text{CH}_3\text{CH}_2\text{COOH}$ is:

- (a) ethane carboxylic acid (b) ethanoic acid
 (c) ethylformic acid (d) propanoic acid

34. The IUPAC name of $\text{CH}_3\text{CH}_2\underset{\text{CH}_3}{\text{CH}}\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_3$ is:

- (a) 5-methylheptane

- (b) 3-methylheptane

- (c) 1-methyl-1-ethylpentane

- (d) 2-ethylhexane

35. The IUPAC name of $\text{CH}_3\text{COCH}_2\text{CH}_2\text{CH}_3$ is:

- (a) 2-pantanone (b) 4-pantanone

- (c) methylpropylketone (d) ethylacetone

36. The IUPAC name of CCl_3CHO is

- (a) 1, 1,1-trichloroethanal (b) 2,2,2-trichloroethanal

- (c) trichloroacetaldehyde (d) chloral

37. The IUPAC name of $\text{CH}_3-\underset{\text{CH}_3}{\text{CH}}-\text{CH}=\text{CH}-\text{CH}_3$ is:

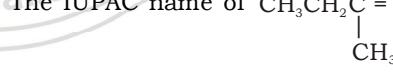
- (a) 2-methylpentane (b) 4-methylpentene-2

- (c) 2-hexene (d) 2,4-dimethylbutene

38. The IUPAC name of $\text{CH}_2=\text{CH}-\text{CH}(\text{CH}_3)_2$ is:

- (a) 1-isopropylethylene (b) 1,1-dimethyl-2-propene

- (c) 3-methyl-1-butene (d) 2-vinylpropane

39. The IUPAC name of $\text{CH}_3\text{CH}_2\underset{\text{CH}_3}{\text{C}}=\text{CH}_2$ is:

- (a) 3-methylbutene-1 (b) 2-methylbutene-1

- (c) vinylmethylethane (d) propylethene-1

40. The IUPAC name of $\text{CH}_3\text{CH}_2\text{CH}=\underset{\text{CH}_2\text{CH}_3}{\text{C}}-\text{CH}_3$ is:

- (a) 2-ethyl-2-pentene

- (b) 4-ethyl-2-pentene

- (c) 3-methyl-3-hexene

- (d) 3-methyl-2-pentene

41. The IUPAC name of $(\text{CH}_3)_3\text{C}-\text{CH}=\text{CH}_2$ is

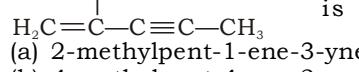
- (a) 1, 1-dimethyl-3-butene

- (b) 3,3-dimethyl-1-butene

- (c) 3,3,3-trimethyl-1-propene

- (d) 1,1,1-trimethyl-2-propene

42. The IUPAC name of the compound



- (a) 2-methylpent-1-ene-3-yne

- (b) 4-methylpent-4-ene-2-yne

- (c) 2-methylpent-2-ene-3-yne

- (d) 2-methylpent-3-yne-2-ene

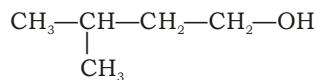
43. The IUPAC name of $\text{C}_2\text{H}_5-\underset{\text{H}_2\text{C}}{\overset{\parallel}{\text{C}}}-\text{CH}-\text{CH}_3$ is

- (a) 3-methyl-2-ethylbutene-1
- (b) 3-ethyl-3-methylbutene-1
- (c) 2-ethyl-3-methylbutene-1
- (d) ethylisopropylethene

44. The IUPAC name of $\text{CH}_3-\underset{\text{CH}_2\text{CH}_3}{\overset{|}{\text{CH}}}-\text{CHO}$ is:

- (a) 2-methylbutanal
- (b) butan-2-aldehyde
- (c) 2-ethylpropanal
- (d) 3-methylisobutyraldehyde

45. The IUPAC name of



is:

- (a) pentanol
- (b) 1-pentanol
- (c) 2-methyl-4-butanol
- (d) 3-methyl-1-butanol

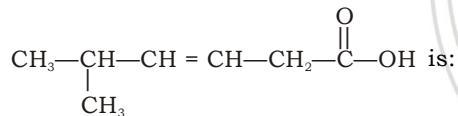
46. The IUPAC name of $\text{CH}_3\text{CH}_2-\underset{\text{CH}_2\text{CH}_3}{\overset{|}{\text{CH}}}\text{CH}_2\text{OH}$ is:

- (a) 2-methyl-1-pentanol
- (b) 2-ethylbutanol-1
- (c) 2-ethylpentanol-1
- (d) 3-ethylbutanol-1

47. The IUPAC name for $\text{CH}_3\text{CHOHCH}_2-\underset{\text{CH}_3}{\overset{|}{\text{C}}}-\text{OH}$ is:

- (a) 2-methyl-2, 4-pentanediol
- (b) 1, 1-dimethyl-1, 3-butanediol
- (c) 1, 3,3-trimethyl-1, 3-propanediol
- (d) 4-methyl-2, 4-pentanediol

48. The IUPAC name for



- (a) 5-carboxy-2-methylpentene
- (b) 4-isopropyl-3-butenoic acid
- (c) 5-methyl-4-hexenoic acid
- (d) none of these

49. The structure of 4-methylpentene-2 is

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

50. 2-methyl-2-butene is represented as

- (a) $\text{CH}_3-\underset{\text{CH}_3}{\overset{|}{\text{C}}}=\text{CHCH}_3$
- (b) $\text{CH}_3-\text{CH}_2-\underset{\text{CH}_3}{\overset{|}{\text{C}}}=\text{CH}_2$
- (c) $\text{CH}_3-\underset{\text{CH}_3}{\overset{|}{\text{CH}}}-\text{CH}=\text{CH}_2$
- (d) $\text{CH}_3-\underset{\text{CH}_2}{\overset{|}{\text{C}}}-\text{CH}_2-\text{CH}_3$

51. The IUPAC name of $\text{CH}_3-\underset{\text{CH}_3}{\overset{|}{\text{C}}}-\text{Br}$ is:

- (a) tertiary butylbromide
- (b) isobutylbromide

(c) 2-bromo-2-methylpropane

(d) 2-methyl-2-propylbromide

52. The IUPAC name of $\text{CH}_3-\text{CH}=\text{CHCH}_2\text{Br}$ is

- (a) 1-bromo-3-butene
- (b) 1-bromo-2-butene
- (c) 2-butene-1-bromide
- (d) 4-bromo-2-butene

53. The IUPAC name of $(\text{CH}_3)_3\text{C}-\text{OH}$ is

- (a) tert. butylalcohol
- (b) 2-methyl-2-propanol
- (c) 2-methyl-1-butanol
- (d) 2-propanol

54. The IUPAC name of $\text{CH}_3\text{COCH}_2\text{CH}_2\text{CH}_3$ is

- (a) methyl-n-propylketone
- (b) 2-pentanone
- (c) 3-pentanone
- (d) n-propylmethylketone

55. The IUPAC name of $\begin{array}{c} \text{CH}_3 \\ | \\ \text{CH}_3-\text{C}-\text{C}-\text{CH}_2-\text{CH}_3 \\ | \quad | \\ \text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}_3 \end{array}$ is:

- (a) 3-ethyl-2,2,3-trimethylheptane

- (b) 2,2,3-trimethyl-3-n-butylpentane

- (c) 3-methyl-3-isopropylheptane

- (d) 2,2-dimethyl-3-ethyl-3-n-butylbutane

56. The IUPAC name of $\begin{array}{c} \text{CH}_3 \\ | \\ \text{CH}_3-\text{CH}-\text{CH}_2-\text{CH}-\text{CH}_2\text{CH}_3 \\ | \quad | \\ \text{CH}_2\text{CH}_3 \end{array}$ is:

- (a) 2-ethyl-4-methylhexane

- (b) 3, 5-dimethylheptane

- (c) 5-ethyl-3-methylhexane

- (d) 2, 4-diethylpentane

57. The IUPAC name of $\begin{array}{c} \text{CH}_3 \quad \text{CH}_3 \\ | \quad | \\ \text{CH}_3\text{CH}-\text{CH}-\text{C}-\text{CH}_3 \\ | \quad | \\ \text{OH} \quad \text{OH} \end{array}$ is:

- (a) 1,1,2-trimethyl-1,3-butanediol

- (b) 1,2-dimethyl-2,4-pentanediol

- (c) 2,3-dimethyl-2,4-pentanediol

- (d) 1,2,3,4-tetramethyl-1,3-propanediol

58. The IUPAC name of $\text{CH}_3\text{C}\equiv\text{C}-\text{CH}-\text{CH}_3$ is:

- (a) 4-methyl-2-pentyne
- (b) methylisopropylacetylene
- (c) 4,4-dimethyl-2-butyne
- (d) 2-methyl-4-pentyne

59. The structure of 4-methyl-2-penten-1-ol is

- (a) $(\text{CH}_3)_2\text{CHCH}_2=\text{CHCH}_2\text{OH}$

- (b) $\text{CH}_3\text{CHOH}-\text{CH}=\text{C}(\text{CH}_3)_2$

- (c) $(\text{CH}_3)_2=\text{CHCH}_2\text{CH}_2\text{OH}$

- (d) $\text{CH}_3\text{CH}_2\text{CH}=\text{CHCH}_2\text{OH}$

60. Which of the following compounds are named correctly?

- (a) $(\text{CH}_3)_2\text{CHCH}_2\text{CH}_2\text{CH}_2\text{CHO}$ (5-methyl-1-hexanal)

- (b) $(\text{CH}_3)_2\text{CHCH}_2\text{C}\equiv\text{C-COOH}$ (5-methyl-2-hexynoic acid)

- (c) $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_2\text{CH}(\text{CH}_3)\text{COOH}$ (2-methylhexanoic acid)

- (d) $\text{CH}_3\text{CH}_2\text{CH}=\text{CH}-\text{COCH}_3$ (3-hexen-5-one)

61. The IUPAC name of $(\text{CH}_3)_3\text{C}-\text{CH}_2\text{CH}=\text{CH}_2$ is:

- (a) 2,2-dimethylpent-4-ene

- (b) 2,2-dimethylhex-4-ene

- (c) 4,4-dimethylpent-1-ene

- (d) hex-1-ene

62. In which of the following are all carbon atoms sp-

83. The IUPAC name of $\begin{array}{c} \text{CH}_3-\text{CH}-\text{CH}_2-\text{C}(\text{CH}_3)_2 \\ | \qquad | \\ \text{OH} \qquad \text{OH} \end{array}$ is:

- (a) 2-methyl-2, 4-dihydroxypropane
- (b) 2, 2-dimethyl-4-hydroxybutanol
- (c) 2-methyl-2, 4-pentanediol
- (d) 2-hydroxy-4, 4-dimethylbutanol-4

84. The IUPAC name of $\begin{array}{c} \text{BrCH}_2-\text{CH}-\text{CO}-\text{CH}_2-\text{CH}_2\text{CH}_3 \\ | \\ \text{CONH}_2 \end{array}$ is:

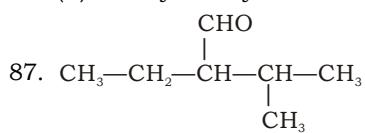
- (a) 2-bromomethyl-3-oxohexanamide
- (b) 1-bromo-2-amido-3-oxohexane
- (c) 1-bromo-2-amido-n-propylketone
- (d) 3-bromo-2-propionyl-propanamide

85. The IUPAC name of $\begin{array}{c} \text{CH}_3-\text{CH}_2-\text{CH}-\text{COOC}_2\text{H}_5 \\ | \\ \text{CH}_3 \end{array}$ is:

- (a) 2-ethyl-ethylacetate
- (b) ethyl 3-methylbutanoate
- (c) ethyl 2-methylbutanoate
- (d) 2-methylbutanoic acid ethylester

86. The IUPAC name of $\begin{array}{c} \text{CH}_3\text{CH}_2-\text{N}-\text{CH}_2\text{CH}_3 \\ | \\ \text{CH}_3 \end{array}$ is:

- (a) N-methyl-N-ethylethylamine
- (b) diethylmethylamine
- (c) N-ethyl-N-methylaminoethane
- (d) methylidiethylamine



The IUPAC name of this compound is

- (a) 2-isopropylbutanal
- (b) 2-ethyl-3-methylbutanal
- (c) 3-ethyl-2-methylbutanal
- (d) 2-methylpentane-3-aldehyde

88. The IUPAC name of $\begin{array}{c} \text{C}_6\text{H}_5-\text{CH}-\text{CH}_2-\text{CCl}_3 \\ | \\ \text{C}_6\text{H}_5 \end{array}$ is:

- (a) 1,1,1-trichloro-3, 3-diphenylpropane
- (b) 1,1-diphenyl-3, 3, 3-trichloropropane
- (c) (a) as well as (b)
- (d) none of these

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

- (a) cinnamic acid
- (b) 1-phenyl-2-carboxyethene
- (c) 3-phenylprop-2-enoic acid
- (d) dihydro-3-phenylpropionic acid

90. The IUPAC name of $\text{HC} \equiv \text{CCH}_2\text{CH} = \text{CH}_2$ is:

- (a) 1-propyn-ethene
- (b) propeneacetylene
- (c) pent-4-yne-1-ene
- (d) pent-1-en-4-yne

91. The IUPAC name of $\begin{array}{c} \text{CH}_2=\text{CH}-\text{CHCH}_2\text{CH}_3 \\ | \\ \text{CH}_3 \end{array}$ is:

- (a) 1-cyclohexyl-3-methyl-1-pentene
- (b) 3-methyl-5-cyclohexyl-pent-1-ene
- (c) 1-cyclohexyl-3-ethyl-but-1-ene
- (d) 1-cyclohexyl-3, 4-dimethyl-but-1-ene

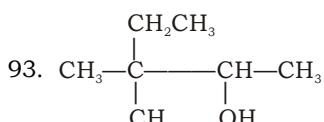
92. The -I effect of $-\text{NO}_2$, $-\text{CN}$, $-\text{COOH}$, $-\text{Cl}$ decreases in the order

- (a) $-\text{NO}_2 > -\text{CN} > -\text{COOH} > -\text{Cl}$

(b) $-\text{Cl} > -\text{COOH} > -\text{CN} > -\text{NO}_2$

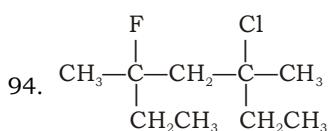
(c) $-\text{CN} > -\text{NO}_2 > -\text{Cl} > -\text{COOH}$

(d) $-\text{COOH} > -\text{CN} > -\text{NO}_2 > -\text{Cl}$



The IUPAC name of this compound is:

- (a) 3, 3-dimethyl-2-pentanol
- (b) 3-methyl-3-ethyl-2-butanol
- (c) 3,3-dimethyl-3-ethyl-isopropanol
- (d) 3,3-dimethyl-3-ethyl-2-hydroxypropane



The IUPAC name of this compound is:

- (a) 2-fluoro-4-chloro-2, 4-diethylpentane
- (b) 3-fluoro-5-chloro-3-methyl-5-ethylhexane
- (c) 3-chloro-5-fluoro-3, 5-dimethylheptane
- (d) 3, 5-dimethyl-5-fluoro-3-chloroheptane

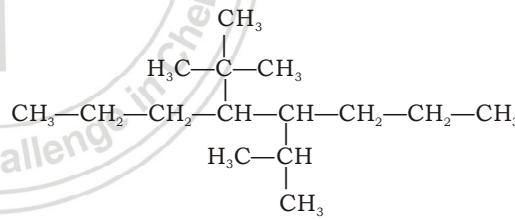
95. The +I effect of $(\text{CH}_3)_3\text{C}$ (I), $(\text{CH}_3)_2\text{CN}$ (II), $\text{CH}_3\text{C}-\text{H}_2$ (III), CH_3 (IV) decreases in the order

- (a) I > II > III > IV
- (b) IV > III > II > I
- (c) II > I > IV > III
- (d) I > II > IV > III

96. The inductive effect of the alkyl groups on a saturated carbon chain follows the order

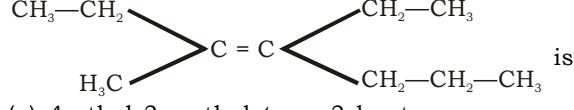
- (a) $(\text{CH}_3)_3\text{C} \rightarrow (\text{CH}_3)_2\text{CH} \rightarrow \text{CH}_3-\text{CH}_2 \rightarrow \text{CH}_3-$
- (b) $\text{CH}_3 \rightarrow \text{CH}_3-\text{CH}_2 \rightarrow (\text{CH}_3)_2\text{CH} \rightarrow (\text{CH}_3)_3\text{C}-$
- (c) $\text{CH}_3\text{CH}_2 \rightarrow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

97. Give the IUPAC name of



- (a) 4-isopropyl-5-tert.butyloctane
- (b) 4-tert.butyl-5-isopropyloctane
- (c) 2-methyl-3-propyl-4-tert. butylheptane
- (d) 2,2-dimethyl-3-propyl-4-isopropylheptane

98. The IUPAC name of

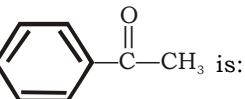


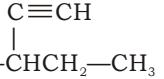
- (a) 4-ethyl-3-methyl-trans-3-heptene
- (b) 4-ethyl-5-methyl-trans-4-heptene
- (c) 3-methyl-4-propyl-3-hexene
- (d) 3-propyl-4-ethyl-3-pentene

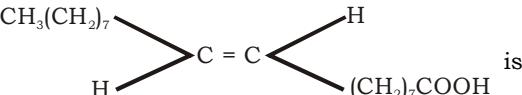
99. The IUPAC name of $\text{ClCH}_2\text{CH} = \text{CCH}_2-\text{OH}$ is:

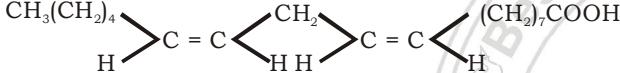
- (a) 5-chloro-3-penten-3-carbinol
- (b) 1-chloro-3-penten-3-carbinol
- (c) 4-chloro-2-ethyl-2-buten-1-ol
- (d) 1-chloro-3-ethyl-2-buten-4-ol

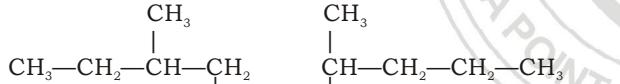
100. The IUPAC name of $\text{CH}_2 = \text{C}(\text{CH}_3)\text{CHO}$ is:
 (a) methacrolein (b) methacrylaldehyde
 (c) 2-methylpropenal (d) propenaldehyde

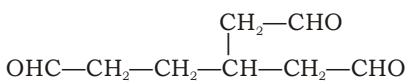
101. The IUPAC name of  is:
 (a) phenylethanone (b) methylphenylketone
 (c) acetophenone (d) phenylemethylketone

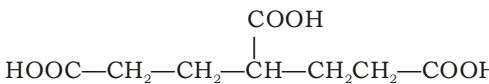
102. The IUPAC name of 
- is
 (a) 5-ethyl-1, 3, 6-heptatriyne
 (b) 3-ethyl-2, 4, 5-heptatriyne
 (c) 5-ethenyl-1, 3-heptatriyne
 (d) 3-ethenyl-4, 6-heptatriyne

103. The IUPAC name of 
- is
 (a) elaidic acid
 (b) trans-octadec-9-enoic acid
 (b) dihydrostearic acid
 (d) oleic acid

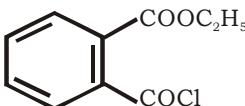
104. The IUPAC name of 
- is
 (a) cis-cis-9, 12-octadecadienoic acid
 (b) cis-trans-9, 12-octadecadienoic acid
 (c) 9, 10-octadecadienoic acid
 (d) 9, 14-octadecadienoic acid

105. The IUPAC name of 
- is
 (a) 6-(1-methylbutyl)-8-(2-methylbutyl) tetradecane
 (b) 6-(2-methylbutyl)-8-(1-methylbutyl) tetradecane
 (c) 4-methyl-5-n-pentyl-7-(2-methylbutyl) tridecane
 (d) 3-methyl-5-n-hexyl-7-(1-methylbutyl) didecane

106. The IUPAC name of 
- is
 (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

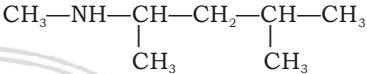
107. The IUPAC name of 
- is

- (a) 4-carboxyheptane-1, 7-dioicacid
 (b) 3-propionyl-propane-1, 3-dioicacid
 (c) pentane-1, 3,5-tricarboxylicacid
 (d) 4-methionatebutane-1, 3-dioicacid

108. The IUPAC name of 

- is
 (a) 2-chlorocarbonyl ethylbenzoate
 (b) 2-carboxyethyl benzoyl chloride
 (c) ethyl-2-(chlorocarbonyl) benzoate
 (d) ethyl-1-(chlorocarbonyl) benzoate

109. The IUPAC name of $\text{C}_6\text{H}_5\text{CN}$ is
 (a) phenyl cyanide (b) phenylacetonitrile
 (c) benzene cyanide (d) benzonitrile
110. The IUPAC name of $\text{C}_6\text{H}_5\text{CH}_2\text{CH}_2\text{NH}_2$ is
 (a) β -phenylethylamine (b) 2-phenylaminoethane
 (c) 2-phenylethanamine (d) benzyl methylamine

111. The IUPAC name of 
- is
 (a) 2-(n-methylamino)-4-methylpentane
 (b) n, 4-dimethylpentan-2-amine
 (c) 2-(n-methylamino)-3-isopropylpropane
 (d) 2-(n-methylamino)-1,4,4-trimethylbutane

112. The *trans*-alkenes are formed by the reduction of alkynes with:

- (a) $\text{H}_2 - \text{Pd/C}, \text{BaSO}_4$ (b) NaBH_4
 (c) $\text{Na}/\text{liq. NH}_3$ (d) $\text{Sn} - \text{HCl}$

ANSWER

1. (c)	2. (a)	3. (a)	4. (c)	5. (c)
6. (d)	7. (c)	8. (d)	9. (d)	10. (c)
11. (b)	12. (a)	13. (b)	14. (c)	15. (a)
16. (a)	17. (d)	18. (d)	19. (a)	20. (c)
21. (a,b,c)	22. (c)	23. (c)	24. (c,d)	25. (a,d)
26. (a)	27. (c)	28. (c)	29. (c)	30. (b)
31. (a)	32. (c)	33. (d)	34. (b)	35. (a)
36. (b)	37. (b)	38. (c)	39. (b)	40. (c)
41. (b)	42. (a)	43. (c)	44. (a)	45. (d)
46. (b)	47. (a)	48. (d)	49. (a)	50. (a)
51. (c)	52. (b)	53. (b)	54. (b)	55. (a)
56. (b)	57. (c)	58. (a)	59. (a)	
60. (a,b,c)	61. (c)	62. (c)	63. (c)	
64. (a,b,c)	65. (a)	66. (a,c)	67. (a)	68. (b)
69. (a,b,c,d)	70. (a)	71. (b)	72. (c)	73. (b)
74. (d)	75. (c)	76. (a)	77. (b)	78. (d)
79. (a)	80. (b)	81. (a)	82. (b)	83. (c)
84. (a)	85. (c)	86. (a)	87. (b)	88. (a)
89. (c)	90. (d)	91. (a)	92. (a)	93. (a)
94. (c)	95. (a)	96. (a)	97. (b)	98. (a)
99. (c)	100. (c)	101. (a)	102. (a)	103. (b)
104. (a)	105. (a)	106. (d)	107. (c)	108. (c)
109. (d)	110. (c)	111. (b)	112. (c)	