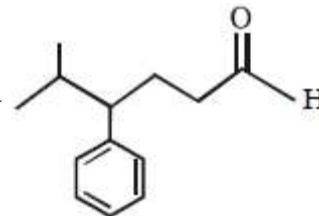
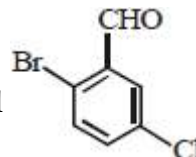


71. Identify the correct IUPAC name of the compound given below



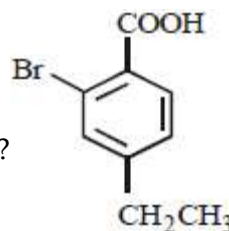
- (1) 4 - benzyl - 5 - methyl hexanal
 (2) 2 - methyl - 3 - phenyl hexanal
 (3) 5 - isopropyl - 5 - phenyl butanal
 (4) 5 - methyl - 4 - phenyl hexanal

72. Which of the following is the IUPAC name of the compound

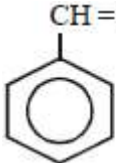


- (1) o - bromo - m - Chlorobenzaldehyde
 (2) 2 - bromo - 5 - Chlorobenzene carbaldehyde
 (3) 6 - bromo - 3 - Chlorobenzaldehyde
 (4) 1 - bromo - 4 - Chlorobenzaldehyde

73. What is the IUPAC name of the following compound ?

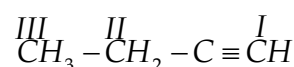


- (1) 6 - bromo - 4 - ethylbenzene carboxylic acid
 (2) 2 - bromo - 4 - ethylbenzene carboxylic acid
 (3) Ortho - bromo - paraethyl benzoic acid
 (4) 4 - bromo - 3 - ethyl benzoic acid
74. The C-H bond length is minimum in the bond formed by
- (1) sp - s overlapping (as in alkynes)
 (2) sp^2 - s overlapping (as in alkenes)
 (3) sp^3 - s overlapping (as in alkanes)
 (4) All are same
75. Which of the following has the shortest C - C bond length ?
- (1) C_2H_5OH
 (2) C_2H_6
 (3) C_2H_2
 (4) C_2H_4
76. In which of the compounds given below there is more than one kind of hybridization (sp , sp^2 , sp^3) for carbon ?
- (i) $CH_3CH_2CH_2CH_3$
 (ii) $CH_3CH = CHCH_3$
 (iii) $CH_2 = CH - CH = CH_2$
 (iv) $H - C \equiv C - H$
- (1) (ii)
 (2) (iii) and (iv)
 (3) (i) and (iv)
 (4) (ii) and (iii)

77. The type of hybridizations exhibited by carbons in  are

- (1) sp^3 and sp
 (2) sp^2 only
 (3) sp^3 and sp^2
 (4) sp^3 , sp^2 and sp

78. Which of the following carbon atoms is most electronegative?



- (1) I
 (2) II
 (3) III
 (4) All are equally electronegative

79. The compound in which $\overset{x}{C}$ uses its sp^3 - hybrid orbitals for bond formation is



80. The correct IUPAC name of the following compound is $O=CH-CH_2-\underset{\substack{| \\ H-C=O}}{CH}-CHO$

(1) 1,1-diformyl propanal

(2) 3-formyl butanedial

(3) 2-butanedial

(4) 1, 1,2-ethane tricarbaldehyde