

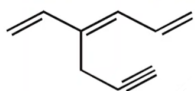
Arjuna NEET (2025)

Organic Chemistry

DPP: 6

Some Basic Principles and Technique (IUPAC Naming)

Q1 IUPAC name of the following compound is



- (A) 3-(Prop-2-ynyl)hexa-1,3,5-triene
 (B) 4-Ethenylhepta-1, 3-dien-6-yne
 (C) 4-Ethenylhexa-4, 6-dien-1-yne
 (D) 4-(Prop-2-ynyl) hexa-1,3,5-triene

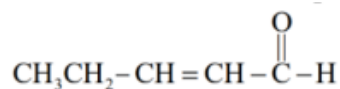
Q2 Identify the correct IUPAC name:

- (A) 2, 2-dimethyl-4-ethyl heptane
 (B) 5-ethyl-2-methyl hexane
 (C) 1,3-dimethyl butane
 (D) 3-ethyl-1, 1-dimethyl cyclohexane

Q3 Select the structure of 4-ethyl-2,3-dimethyl-2-heptene

- (A)
- (B)
- (C)
- (D)

Q4 IUPAC name of the compound is



- (A) pent-2-en-1-al (B) But-2-en-1-al
 (C) pent-3-en-4-al (D) pent-3-en-5-al

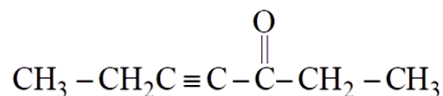
Q5 The structure of 4-methylpent-2-en-1-ol is

- (A) $\text{CH}_3\text{CH}_2\text{CH}=\text{CH}-\text{CH}_2\text{OH}$
 (B) $(\text{CH}_3)_2\text{C}=\text{CH}-\text{CH}_2\text{CH}_2\text{OH}$
 (C) $(\text{CH}_3)_2\text{CH}-\text{CH}=\text{CH}-\text{CH}_2\text{OH}$
 (D) $\text{CH}_3\text{CH}(\text{OH})\text{CH}_2\text{CH}=\text{C}(\text{CH}_3)_2$

Q6 Incorrect IUPAC name is

- (A) 2-methyl-3-butanone
- (B) 2,3-dimethyl pentane
- (C) $\text{CH}_3\text{C}\equiv\text{C}-\text{CH}(\text{CH}_3)_2$ 4-methylpent-2-yne
- (D) 2-bromo-3-chlorobutane

Q7 IUPAC name of



- (A) 3-oxo-2-heptyne
 (B) hept-3-yn-4-oxone
 (C) hept-4-yn-3-one
 (D) hept-3-yn-4-one

Q8 Correct name of the following compound is

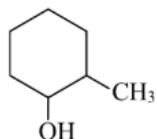


- (A) 2-methylpropan-1-ol
 (B) 1-hydroxypropane



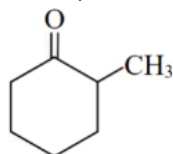
- (C) 2-methylcyclopropan-1-ol
(D) 1-hydroxy-2-methylcyclopropane

Q9 Correct name of the compound is



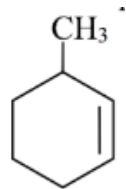
- (A) 2-methylcyclohexanol
(B) 6-methylcyclohexanol
(C) 1-hydroxy-2-methyl cyclohexane
(D) 2-methylphenol

Q10 IUPAC name of the compound is



- (A) 3-methyl cyclohexanone
(B) 2-methyl cyclohexanone
(C) 5-methyl cyclohexanone
(D) 2-methyl hexanone

Q11 The IUPAC name of the compound is



- (A) 3-methylcyclohexene
(B) 1-methylcyclohex-2-ene
(C) 6-methyl cyclohexene
(D) 1-methylcyclohex-5-ene

Q12

The IUPAC name of is

- (A) 3,3-dimethyl-1-hydroxycyclohexane
(B) 1, 1-dimethyl-3-hydroxycyclohexane
(C) 3, 3-dimethylcyclohexan-1-ol
(D) 1, 1-dimethylcyclohexan-3-ol

Q13

The IUPAC name of is

- (A) Tris(chloromethyl) methane
(B) 1, 3-Dichloro-2 (chloromethyl) propane
(C) 1-Chlorobis(chloromethyl) ethane
(D) None of these



Answer Key

Q1 (B)
Q2 (D)
Q3 (B)
Q4 (A)
Q5 (C)
Q6 (A)
Q7 (C)

Q8 (C)
Q9 (A)
Q10 (B)
Q11 (A)
Q12 (C)
Q13 (B)



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