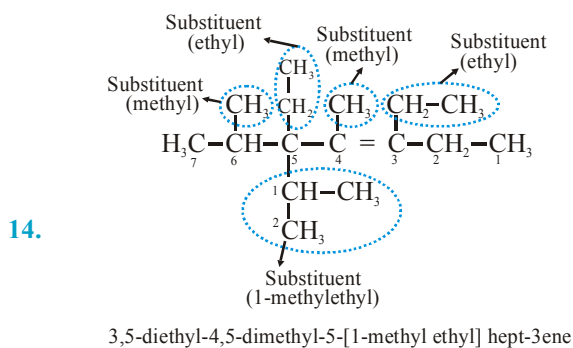
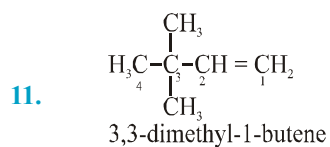
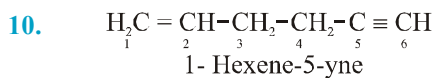
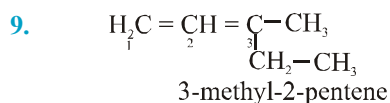
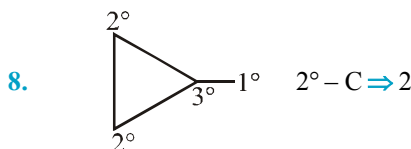
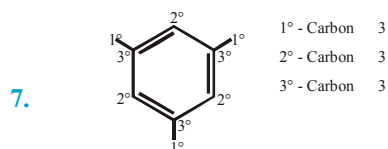
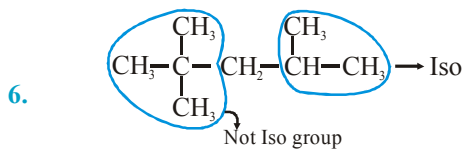
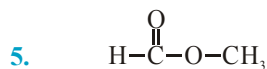
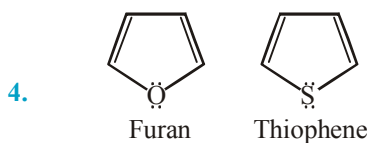
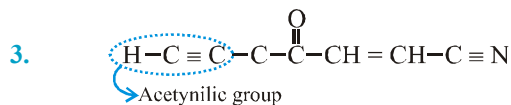
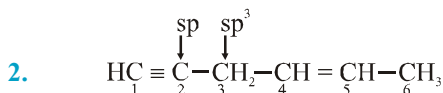
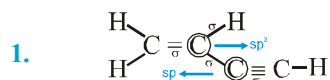


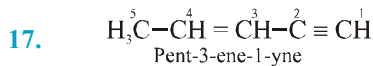
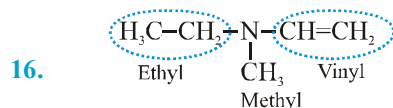
HINTS & SOLUTIONS

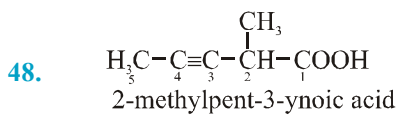
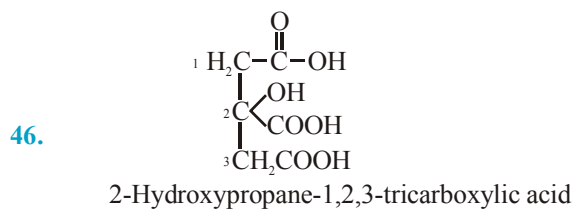
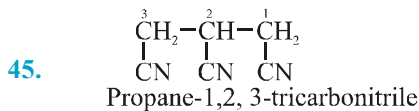
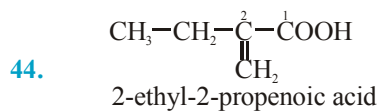
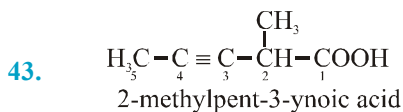
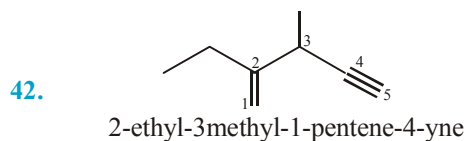
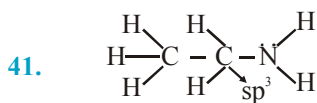
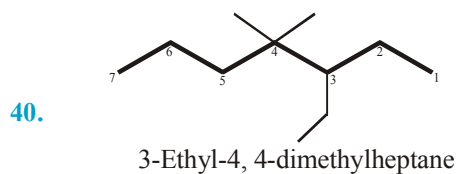
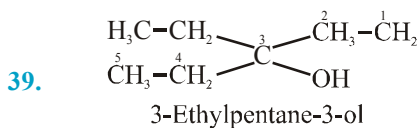
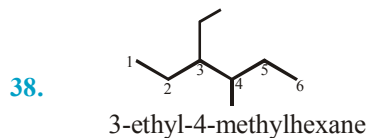
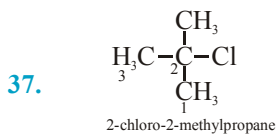
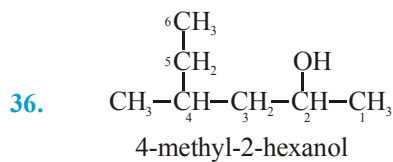
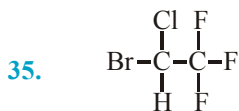
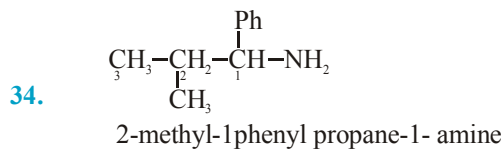
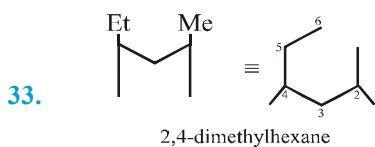
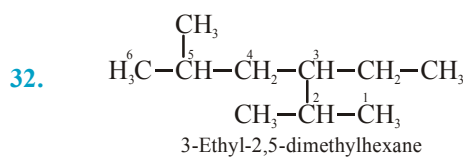
EXERCISE - 1

Single Choice



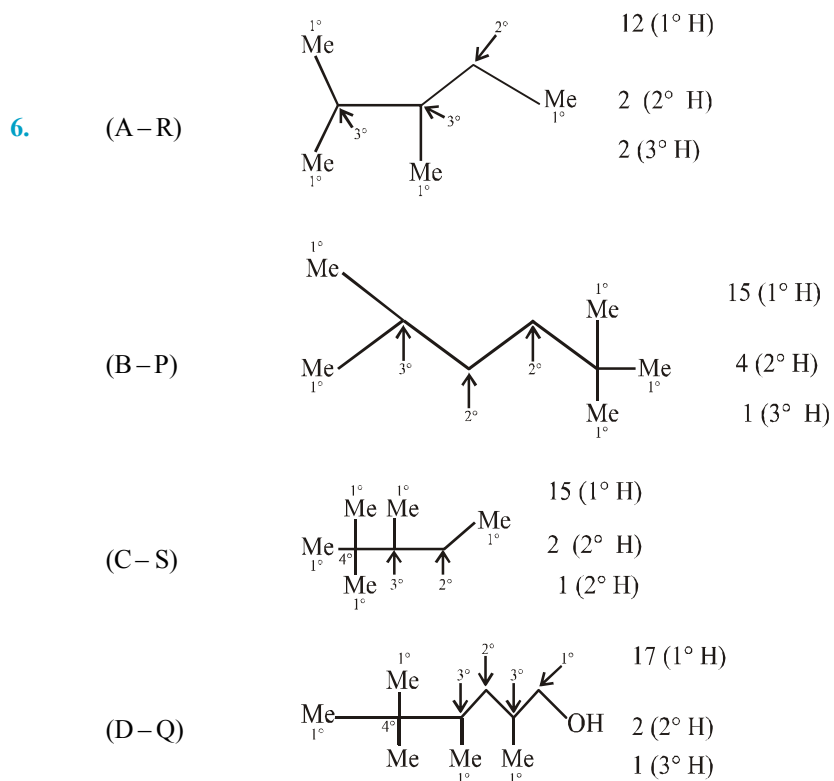
15. Compound having hetero-atom (as O, N, S etc.) in cycle are known as heterocyclic compound.



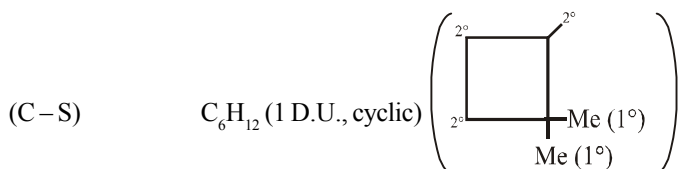


EXERCISE - 3

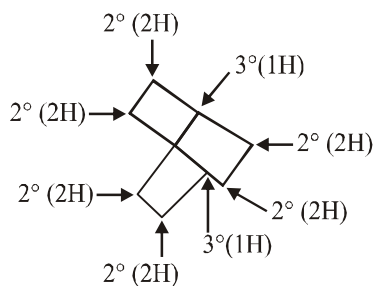
Part # I : Matrix Match Type

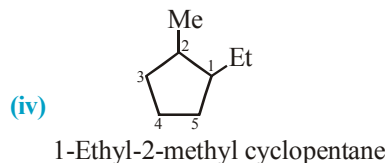
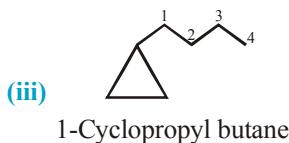
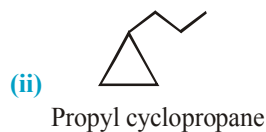
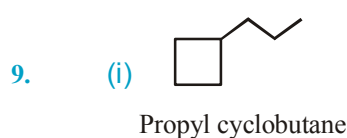


8. (A-Q) C_8H_{18} , saturated alkane.
(B-R) C_6H_{12} (1 D.U. means alkene or cyclic) It can be only (r).



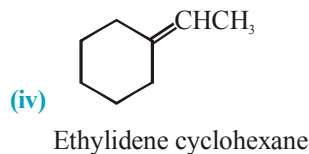
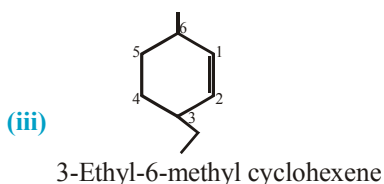
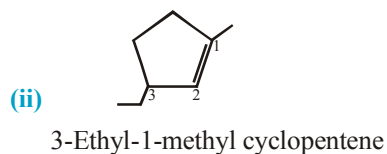
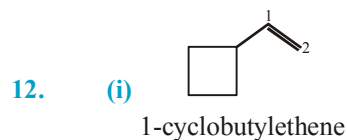
- (D-P) C_8H_{14} (1 D.U., cyclic)
 2° (12H) 1° (H)





10. (a) 1, 5-Dimethylcyclopent-1-ene
(b) 1-Cyclohexyl-4-cyclopropylbutane
(c) 1-(1,1-Dimethylethyl)-2-(1-methylethyl) cyclopentane

11. (a) ring (b) side chain (c) ring (d) ring
(e) side chain (f) side chain



13. (a) 1, 3, 5 Trihexylcyclohexane
(b) 3 - Cyclopropylprop-1-ene
(c) Cyclohexylcyclohexane
(d) 1-(Hex-3-enyl)cyclohex-1-ene

14. (a) Methoxyethane
(b) Ethoxyethane
(c) Epoxyethane
(d) 1-chloro-2, 3-epoxypropane

15. (a) 4-Cyclohexylbut-3-en-2-one
(b) 2-(2-hydroxybutyl) cyclohexan-1-ol
(c) 2-Methylpropane-2-ol
(d) 3-Chlorobutan-1-ol

16. (a) 1-Chloro-5-methylhexan-2-one
(b) 2-Bromo-2-chloro-5-fluoro-4-methylheptane
(c) 2-Methoxy-N-methylethan-1-amine
(d) 3-Bromo-2-chloro-5-methyloctane

17. (a) Ethanoic 2-methylpropanoic anhydride
(b) Benzenecarboxylic anhydride
(c) Pent-2-enedioic anhydride
(d) Cyclohexane-1, 2-dicarboxylic anhydride

18. (a) Methyl-2-ethylbutanoate
(b) Ethyl-3-methylpent-4-en-1-oate
(c) 3,3 Dimethyl-2-(1-methylethyl)butanamide

33.
$$\begin{array}{c} \text{[CH}_2 = \overset{1}{\text{C}} - \overset{2}{\text{C}} - \overset{3}{\text{CH}_2} - \overset{4}{\text{CH}} - \overset{5}{\text{CH}_3} \\ \text{CH}_3 - \underset{\text{CH}}{\underset{\text{CH}_3}{\text{C}}} - \underset{\text{CH}_3}{\text{C}} \end{array}$$

2-Isopropyl-4-methylpentene
or 4-Methyl-2-(methyl ethyl) pentene
34. [5-Methyl hepta-1,3,6-triene]
35.
$$\text{CH}_3 - \text{CH} = \underset{\text{CH}_2 - \text{CH}_3}{\text{C}} - \text{CH}_2 - \text{OH}$$

2-Ethylbut-2-en-1-ol]
36.
$$\text{[CH}_3 - \overset{\text{O}}{\parallel}{\text{C}} - \text{CH}_2 - \overset{\text{O}}{\parallel}{\text{C}} - \text{CH}_3$$

Pentane-2, 4-dione]
37.
$$\text{[CH}_2 = \overset{4}{\text{C}}\overset{3}{\text{H}} - \overset{2}{\text{C}} - \overset{1}{\text{CH}_2}$$

1-Hydroxybut-3-en-2-one]
38.
$$\text{[CH}_2 = \underset{6}{\text{C}}\overset{5}{\text{H}} - \underset{4}{\text{C}}\overset{\text{OH}}{\text{H}} - \underset{3}{\text{C}}\overset{\text{O}}{\parallel} - \underset{2}{\text{C}}\overset{1}{\text{H}} \equiv \text{CH}$$

4-hydroxyhex-5-en-1-yn-3-one]
39. [2,2,6,7-tetramethyloctane]
40. [3-Ethyl-4,6-dimethyloctane]
41. [1,2-epoxy propane]
42. [1,3-cyclobutadiene]
43. [1,3,4-trimethyl-1-cyclobutene]
44. [1-ethyl-2-methylcyclopentane]
45. [Cyclopropanecarboxylic acid]
46. [Methylene cyclohexane]
47. [1-Cyclohexyl-1-propanone]
48. [5-amino-6-(1-methylpropyl)cyclo-hex-2-enol]
49. [Ethyl cyclohexanecarboxylate]
50. [1-(3-butenyl)cyclopentene]
51. [cyclopent-2-en-1-one]
52. [Methyl-2-methoxy-6-methyl-3-cyclohexene carboxylate]
53. [2-bromo-2-methyl cyclopentanone]
54. [Bicyclo(2.2.1)heptane]
55. [Bicyclo (3.1.0) hexane]
56. [spiro (2.5) octane]
57. [4-isopropyl-1-propyl-1-cyclohexene or 4-(1-methylethyl)-1-propyl cyclohexene]
58. [4-chloro-1-cyclopentyl pentane-2-one]
59. [3-ethoxy-1(1-nitrocyclohexyl)-hex-4-en-1-one]
60. [1,3-diphenyl-1, 4-pentadiene]