


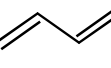
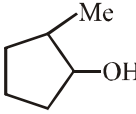
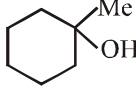
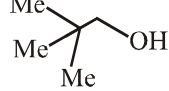
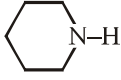
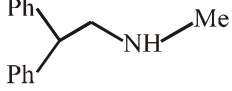
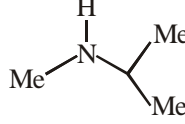
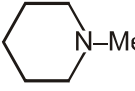


	(1)	(2)	(3)	(4)
(1)	sp^3	sp^3 & sp^2	sp^3 & sp^2	sp
(2)	sp^2	sp^3 & sp	sp^3 & sp	sp^2
(3)	sp^3	sp^3 & sp^2	sp^3 & sp	sp^2
(4)	sp^2	sp^3 & sp	sp^3 & sp^2	sp

10. Which is not the homologue of the propene.
 (1) Ethene (2) But-2-ene (3) Pent-1-ene (4) Cyclopropane

DPP (2) : Classification of organic compounds

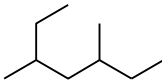
1. The alicyclic compound is :
 (1) Cyclohexane (2) Benzene (3) Pyrrole (4) Hexane
2. Identify the compound which is homocyclic, aromatic, and unsaturated?
 (1)  (2)  (3)  (4) 
3. Secondary (2°) alcohol is :
 (1)  (2)  (3)  (4) All of these
4. Which of the following is a primary alkyl halide ?
 (1) $C_6H_5CHClCH_3$ (2) $CH_3CHClCH_2CH_3$ (3) $(CH_3)_2CHCH_2Cl$ (4) $(CH_3)_3CCl$.
5. Identify the 3° amines?
 (1)  (2)  (3)  (4) 
6. The simplest tertiary amine has :-
 (1) 2 carbon (2) 3 carbon (3) 4 carbon (4) 5 carbon
7. The higher homologue of dimethylamine ($CH_3-NH-CH_3$) has the structure :-
 (1) $CH_3-N(CH_3)-CH_3$
 |
 CH_3
 (2) $CH_3-CH_2-CH_2-NH_2$
 (3) $CH_3-NH-CH_2-CH_3$
 (4) $CH_3-N(CH_3)-NH_2$
8. The minimum number of carbon atoms in an alkane having four primary carbon atoms are :-
 (1) 4 (2) 8 (3) 5 (4) 6
9. A primary amine has amino group- (NH_2) attached to :-
 (1) A primary carbon atom only (2) A secondary carbon atom only
 (3) A tertiary carbon atom only (4) A primary, secondary or tertiary carbon atom

DPP (3) : IUPAC-Nomenclature of Alkane

1. The correct IUPAC name of the alkane $CH_3-\overset{\overset{CH_3}{|}}{CH}-CH_2-CH_3$ is:
 (1) 2-Methyl propane (2) 2, 2-Dimethyl propane

(3) 2-Methyl butane

(4) 2, 2-Dimethyl butane

2. The correct IUPAC name of the alkane  is :

(1) 2-Ethyl-4-methylhexane

(2) 5-Ethyl-3-methylhexane

(3) 3,5-Dimethylheptane

(4) 3,5-Dimethylhexane

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

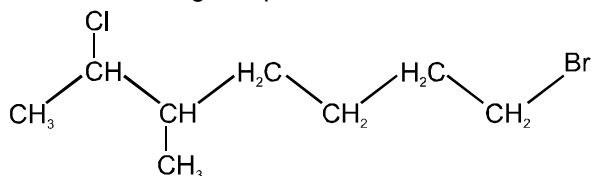
(1) 2,2-Dimethylbutane

(2) 2,3-Dimethylbutane

(3) 2,4-Dimethylbutane

(4) 1-Methylpentane

4. IUPAC name of following compound is :



(1) 2-Chloro-3-methyl-7-bromoheptane

(2) 7-Bromo-2-chloro-7-methylheptane

(3) 1-Bromo-5-methyl-6-chloroheptane

(4) 1-Bromo-6-chloro-5-methyl heptane

5. IUPAC name of tert-butyl chloride is :

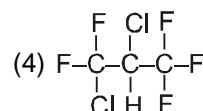
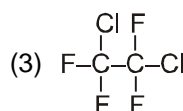
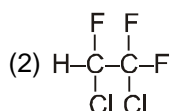
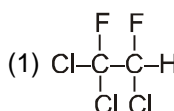
(1) 2-Chloro-2-methylbutane

(2) Chlorobutane

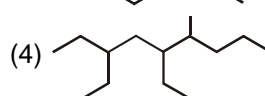
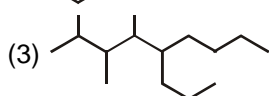
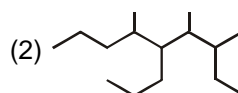
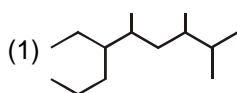
(3) 2-Chlorobutane

(4) 2-Chloro-2-methylpropane

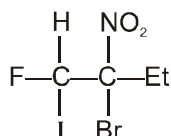
6. What is the correct chemical formula for 1,2-Dichloro tetrafluoroethane ?



7. The correct structure of 6-Ethyl-2,3,5-trimethylnonane is :



8. The correct IUPAC name of the following compound is :



(1) 1-Bromo-1-ethyl-2-fluoro-2-iodo-1-nitroethane.

(2) 3-Bromo-4-fluoro-4-iodo-3-nitrobutane.

(3) 2-Bromo-1-fluoro-1-iodo-2-nitrobutane.

(4) 1-Fluoro-1-iodo-2-bromo-2-ethyl-2-nitroethane.

9. A student named a certain compound as 2, 3-Diethylbutane, its correct IUPAC name is

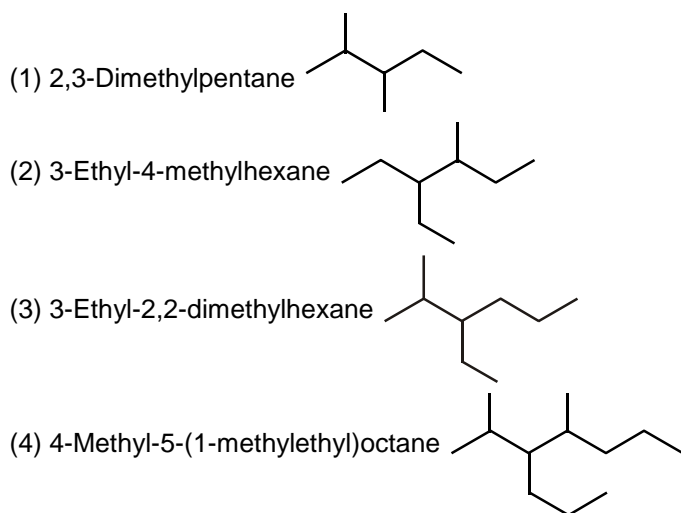
(1) 2, 3-Dimethylhexane

(2) 3, 4-Dimethylhexane

(3) 2-Ethyl-3-methylpentane

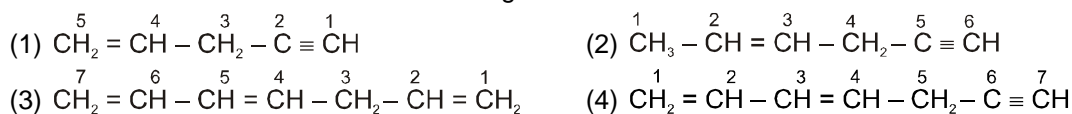
(4) 2-Ethylbutane

10. Which structure is incorrect as per the given name :



DPP (4) : IUPAC-Nomenclature of Alkene & Alkyne

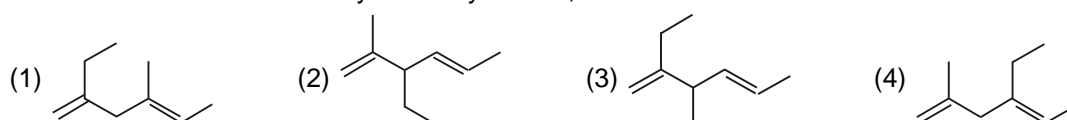
1. Select the structure with correct numbering in the chain :



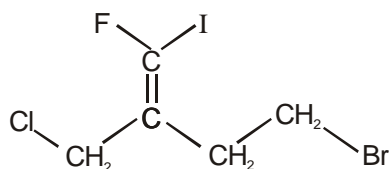
2. The correct IUPAC name of the compound $\text{CH}_2=\text{CH}-\text{CH}_2-\overset{\text{C}_2\text{H}_5}{\text{CH}}-\text{CH}_3$

(1) 4-Ethylpent-1-ene (2) 2-Ethylpent-4-ene (3) 4-Methylhex-1-ene (4) 3-Methylhex-1-ene

3. The correct structure of 2-Ethyl-3-methylhexa-1,4-diene is :

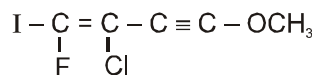


4. The correct IUPAC name of the following compound is :



- (1) 4-Bromo-1-chloro-2-fluoroiodomethylbutene
 (2) 4-Bromo-2-chloromethyl-1-fluoro-1-iodobut-1-ene
 (3) 2-(2-Bromoethyl)-3-chloro-1-fluoro-1-iodoprop-1-ene
 (4) 1-Bromo-3-chloromethyl-4-fluoro-4-iodobut-1-ene

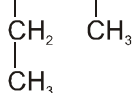
5. The correct IUPAC name of the given compound is :



- (1) 3-Chloro-1-fluoro-1-iodo-4-methoxybut-1-en-3-yne
 (2) 4-Methoxy-2-chloro-1-fluoro-1-iodobutenyne
 (3) 3-Chloro-4-fluoro-4-iodo-1-methoxybutenyne

(4) 2-Chloro-1-fluoro-1-iodo-4-methoxybutenyne

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



(1) 2-Methyl-3-ethyl-1-pentene

(2) 3-Ethyl-4-methyl-4-pentene

(3) 3-Ethyl-2-methyl-1-pentene

(4) 3-Methyl-2-ethyl-1-pentene

7. Which IUPAC name is **incorrect** :

(1) $\text{CH}_3 - \overset{\text{C}_2\text{H}_5}{\underset{\text{C}_2\text{H}_5}{\text{C}}} - \text{CH}_3$ 2,3-Diethylbutene

(2) $\text{HC} \equiv \text{C} - \underset{\text{HC} = \text{CH}_2}{\text{CH}} - \text{CH} = \text{CH}_2$ 3-Ethynylpenta-1, 4-diene

(3) $\text{HC} \equiv \text{C} - \text{CH} = \text{CH}_2$ Butenyne

(4) $\text{CH}_3 - \text{CH} = \text{CH} - \text{C} \equiv \text{CH}$ Pent-3-en-1-yne

8. Which of the following name is wrong for $\text{CH}_2 = \text{CHCH}_2\text{Cl}$?

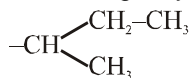
(1) Allyl chloride

(2) 1-Chloroprop-3-ene

(3) 3-Chloroprop-1-ene

(4) 3-Chloropropylene

9. The common name of the following alkyl group is:



(1) isopropyl group

(2) sec-butyl group

(3) Tert-butyl group

(4) Ethyl group

10. $\text{CH}_2 = \text{CH} -$ is called as :

(1) Isoethyl

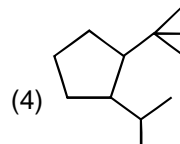
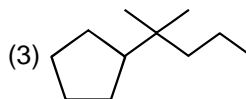
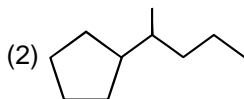
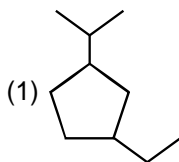
(2) Ethenyl or vinyl

(3) s-ethyl

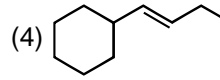
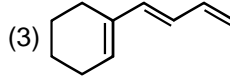
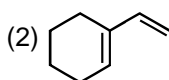
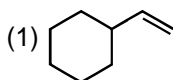
(4) Ethene

DPP (5) : IUPAC-Nomenclature of Cyclic Compounds

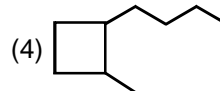
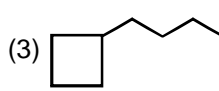
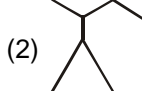
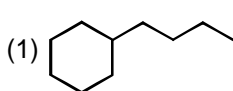
1. In which of the following side chain (acyclic chain) is the main chain ?



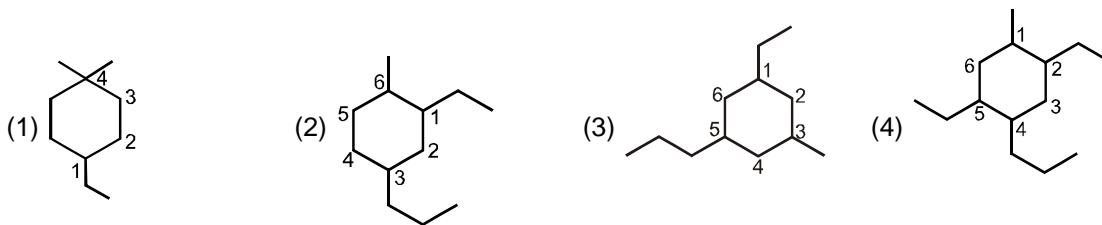
2. In which of the following cyclic chain is the main chain ?

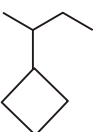


3. Identify the compound in which acyclic part is parent chain ?

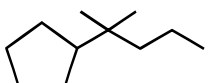


4. In which of the following compound IUPAC numbering is correct ?

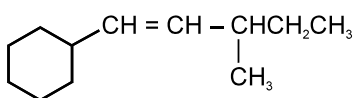


5. IUPAC name for  is :

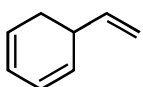
- (1) (1-Methylpropyl)cyclobutane (2) 2-(n-butyl)cyclobutane
 (3) 2-Cyclobutylbutane (4) 1-Cyclobutylbutane

6. The correct IUPAC name of  is :

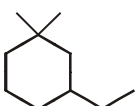
- (1) 1-Cyclopentyl-1, 1-dimethylbutane (2) 2-Cyclopentyl-2-methylpentane
 (3) 2-Methyl-2-cyclopropylpentane (4) 1, 1-Dimethyl-1-cyclopentylbutane

7. IUPAC name of the compound  is :

- (1) 1-Cyclohexyl-3-methylpent-1-ene (2) 3-Methyl-5-cyclohexylpent-1-ene
 (3) 1-Cyclohexyl-3-ethylbut-1-ene (4) 1-Cyclohexyl-3,4-dimethylbut-1-ene

8. The correct IUPAC name of the compound  is :

- (1) 1-Ethenylcyclohexa-2, 4-diene (2) 5-Ethenylcyclohexa-1, 3-diene
 (3) 6-Ethenylcyclohexa-1, 3-diene (4) Cyclohexa-2, 4-dienylethene

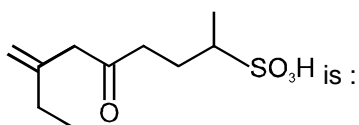
9.  has the IUPAC name-

- (1) 1- Ethyl-3,3-dimethyl cyclohexane (2) 3- Ethyl-1,3-dimethyl cyclohexane
 (3) 3- Ethyl-1,1-dimethyl cyclohexane (4) 3,3-Dimethyl -1-ethyl cyclohexane

DPP (6) : IUPAC - Nomenclature of Functional groups ($-\text{SO}_3\text{H}$, $-\overset{\text{O}}{\parallel}{\text{C}}-$, $-\text{OH}$, $-\text{NH}_2$, $-\text{OR}$)

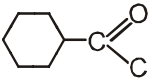
1. The IUPAC name of $\text{CH}_3 - \underset{\text{OH}}{\text{CH}} - \text{CH}_2 - \text{CH}_2 - \text{CH}_2 - \overset{\text{Br}}{\underset{\text{Br}}{\text{C}}} - \text{CH}_3$ is :

(1) 6, 6-Dibromoheptan-2-ol (2) 2, 2-Dibromoheptan-6-ol
 (3) 6, 6-Dibromoheptan-2-al (4) None of these

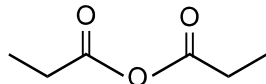
2. The correct IUPAC name of the compound  is :

- (1) 6-Ethyl-1-methyl-4-oxohept-6-ene-1-sulphonic acid
 (2) 7-Ethyl-5-oxooct-7-ene-2-sulphonic acid
 (3) 2-Ethyl-7-sulphooct-1-ene-4-one

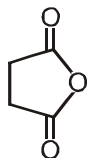
10. The correct IUPAC name of the $\text{H}-\overset{\text{O}}{\parallel}{\text{C}}-\overset{\text{O}}{\parallel}{\text{C}}-\overset{\text{O}}{\parallel}{\text{C}}-\text{OH}$ is :
- (1) 3-Aldo-2-oxopropanoic acid (2) 2,3-Dioxopropanoic acid
 (3) 1-Hydroxy propane-1,2,3-trione (4) 2-Aldo-2-Keto methanoic acid

11. The IUPAC name for the compound  is :-
- (1) Cyclohexanoyl chloride (2) Cyclohexanecarbonyl chloride
 (3) 1-Chlorocyclohexanal (4) Chlorocyclohexyl methanal

DPP (8) : IUPAC-Nomenclature of Functional groups ($-\overset{\text{O}}{\parallel}{\text{C}}-\text{O}-\overset{\text{O}}{\parallel}{\text{C}}-$, $-\overset{\text{O}}{\parallel}{\text{C}}-\text{OR}$, $-\overset{\text{O}}{\parallel}{\text{C}}-\text{NH}_2$.)

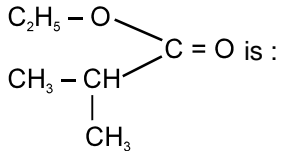
1. The IUPAC name of the compound  is :
- (1) Propanoic anhydride (2) Dipropanoic anhydride
 (3) Ethoxy propanoic acid (4) 1-Oxopropyl propanoate

2. The IUPAC name of the compound is :



- (1) Cyclobutanedioic anhydride (2) Butanedicarboxylic anhydride
 (3) Cyclobutanedicarboxylic anhydride (4) Butanedioic anhydride

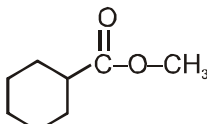
3. The correct IUPAC name of compound $\text{CH}_3-\underset{\text{C}_2\text{H}_5}{\text{CH}}-\overset{\text{O}}{\parallel}{\text{C}}-\text{O}-\text{CH}_3$ is :
- (1) Methyl 2-ethylpropanoate (2) Methyl butane-2-carboxylate
 (3) Methyl 2-methylbutanoate (4) Methoxypentanone

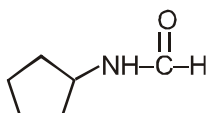
4. The IUPAC name of  is :
- (1) Ethoxymethanone (2) Ethyl 2-methylpropanoate
 (3) Ethoxypropanone (4) 2-Methylethoxypropanone

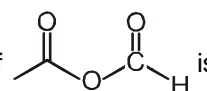
5. The IUPAC name of the compound $\text{CH}_3-\underset{\text{C}_2\text{H}_5}{\text{CH}}-\overset{\text{O}}{\parallel}{\text{C}}-\text{NH}-\text{C}_2\text{H}_5$ is :
- (1) N-Ethyl-2-ethylpropanamide (2) N-Ethyl-2-methylbutanamide
 (3) N-Ethyl-2-methylpropanecarboxamide (4) N-Ethyl-2-ethylethanecarboxamide

6. IUPAC name of the compound $\text{BrCH}_2-\underset{\text{CONH}_2}{\text{CH}}-\text{CO}-\text{CH}_2-\text{CH}_2\text{CH}_3$ is :

- (1) 2-Bromomethyl-3-oxohexanamide (2) 1-Bromo-2-amido-3-oxohexane
 (3) 1-Bromo-2-amido-n-propylketone (4) 3-Bromo-2-propionyl-propanamide

7. IUPAC name of the compound  is :
 (1) Methyl cyclohexanecarboxylate (2) Methyl cyclohexanemethanoate
 (3) Methyl cyclohexylcarboxylate (4) Methyl cyclohexanoate

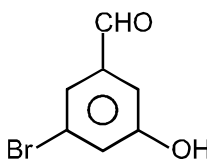
8. IUPAC name of the compound  is :
 (1) N-Cyclopentylamide (2) N-Cyclopentylmethanamide
 (3) Cyclopentanemethanamide (4) N-Aminocyclopentylmethanal

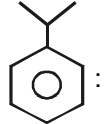
9. The correct IUPAC name of  is
 (1) Butane-2, 4-dione (2) Formyl ethanoate
 (3) Acetic anhydride (4) Ethanoic methanoic anhydride

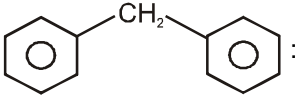
10. Common name of the given compound $\text{CH}_3\text{-C(=O)-O-CH=CH}_2$ is :-
 (1) vinyl acetate (2) acryl acetate
 (3) methyl acrylate (4) Vinyl ethanoate

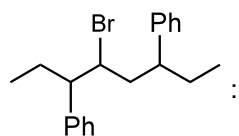
11. The IUPAC name of $\text{Cl-C(=O)-OC}_2\text{H}_5$ is :-
 (1) Ethoxy formyl chloride (2) Ethoxy methanoyl chloride
 (3) Ethyl chloro methanoate (4) Ethoxy carbonyl chloride

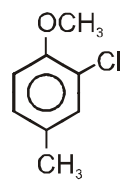
DPP (9) : IUPAC-Nomenclature of Aromatic compounds

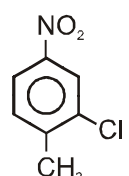
1. The IUPAC name of the compound  is :
 (1) 5-Bromo-3-hydroxybenzenecarbaldehyde (2) 3-Bromo-5-formylphenol
 (3) 3-Bromo-5-hydroxybenzenecarbaldehyde (4) 1-Bromo-3-formyl-5-hydroxybenzene

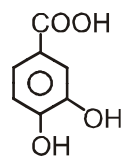
2. Correct name of the  :
 (1) Propylbenzene (2) Isopropylbenzene
 (3) Dimethylbenzene (4) Ethylmethylbenzene

3. IUPAC name of the  :
 (1) Methylidibenzene (2) Isophenyl methane
 (3) Dimethylbenzene (4) Diphenyl methane



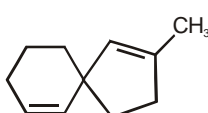
4. Correct IUPAC name of the  :
- (1) Cyclohexylbenzene
(2) 4-Bromo-3, 6-diphenyloctane
(3) 1, 2-Dichloro-4-ethyl-5-nitrobenzene
(4) 4-Chloro-1-nitro-2-propylbenzene

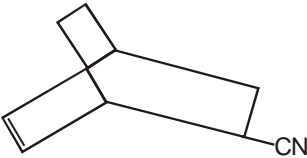
5.  is named as -
- (1) 4-Chloro-2-methyl anisole
(2) 2-Chloro-4-methyl anisole
(3) 3-Chloro-1-methyl anisole
(4) 1-Chloro-3-methyl anisole

6.  has the IUPAC name-
- (1) 4-Methyl-5-Chloro-1-nitrobenzene
(2) 1-Methyl-4-nitro-6-Chloro benzene
(3) 2-Chloro-1-methyl-4-nitrobenzene
(4) 1-Chloro-2-methyl-5-nitrobenzene

7. The IUPAC name of  is :-
- (1) 3,4-Dihydroxybenzenecarboxylic acid
(2) 1,2-Dihydroxybenzoic acid
(3) 4-Carboxy-2-hydroxy phenol
(4) 4-Carboxybenzene-1,2-diol

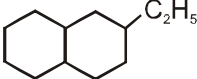


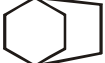
DPP (10) : IUPAC-Nomenclature of Bicyclo and spiro compound

1. Correct IUPAC name of the  :
- (1) Bicyclo [1.1.1] butane
(2) Bicyclo [0.1.1] butane
(3) Bicyclo [1.0.1] butane
(4) Bicyclo [1.1.0] butane
2. Correct IUPAC name of  is :
- (1) Bicyclo [3.2.1] octane
(2) Bicyclo [3.3.3] octane
(3) Bicyclo [3.2.2] octane
(4) Bicyclo [1.2.3] octane
3. Correct IUPAC name of  is :
- (1) 2-Methyl-spiro [4.5] deca-1,6 diene.
(2) 4-Methyl-spiro [4.5] deca-1,6 diene.
(3) 4-Methyl-spiro [4.5] deca-4,7 diene.
(4) 8-Methyl-spiro [4.5] deca-2,8 diene.




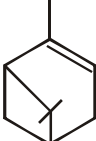
4. Correct IUPAC name of  is :

- (1) Bicyclo [2.2.2] oct-5-ene-2- carbonitrile. (2) Bicyclo [2.2.2] oct-2-ene-6-carbonitrile
 (3) Bicyclo [2.2.2] oct-2-ene-4-carbonitrile (4) Bicyclo [2.2.2] oct-4-ene-6-carbonitrile

5. Which name is **incorrect** matched for the respective structures :

- (1)  C₂H₅ 3-Ethyl bicyclo [4.4.0] decane
 (2)  Bicyclo [3.3.1] nonane
 (3)  Bicyclo [2.1.0] pentane
 (4)  Bicyclo [4.2.2] octane

6. Which name is **incorrect** for the respective structures :

- (1)  Bicyclo [1.1.1] pentane
 (2)  Spiro [4.3] nonane
 (3)  Cl 2-Chlorospiro [4.5] decane
 (4)  2,6,6-Trimethylbicyclo [3.1.1] hept-2-ene

Answers

DPP (1)

1. (1) 2. (1) 3. (2) 4. (1) 5. (2) 6. (1) 7. (2)
8. (2) 9. (3) 10. (4)

DPP (2)

1. (1) 2. (2) 3. (1) 4. (3) 5. (4) 6. (2) 7. (3)
8. (3) 9. (4)

DPP (3)

1. (3) 2. (3) 3. (2) 4. (4) 5. (4) 6. (3) 7. (1)
8. (3) 9. (2) 10. (3)

DPP (4)

1. (4) 2. (3) 3. (3) 4. (2) 5. (4) 6. (3) 7. (1)
8. (2) 9. (2) 10. (2)

DPP (5)

1. (3) 2. (2) 3. (2) 4. (3) 5. (1) 6. (2) 7. (1)
8. (2) 9. (3)

DPP (6)

1. (1) 2. (2) 3. (1) 4. (2) 5. (2) 6. (2) 7. (2)
8. (2) 9. (2)

DPP (7)

1. (2) 2. (1) 3. (3) 4. (3) 5. (3) 6. (4) 7. (2)
8. (2) 9. (4) 10. (2) 11. (2)

DPP (8)

1. (1) 2. (4) 3. (3) 4. (2) 5. (2) 6. (1) 7. (1)
8. (2) 9. (4) 10. (1) 11. (3)

DPP (9)

1. (3) 2. (2) 3. (4) 4. (2) 5. (2) 6. (3) 7. (1)

DPP (10)

1. (4) 2. (1) 3. (1) 4. (1) 5. (4) 6. (2)