
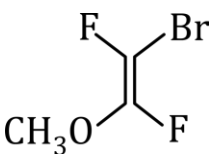
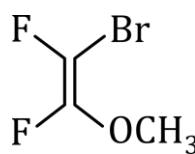
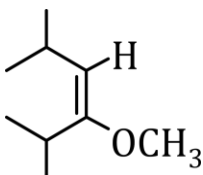
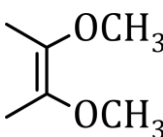
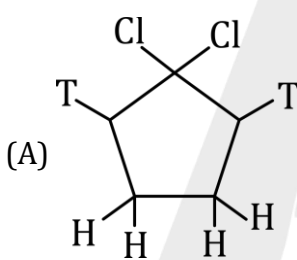
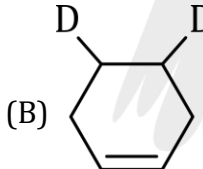
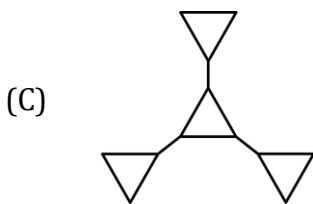
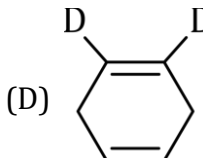
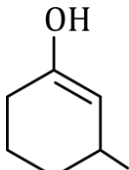
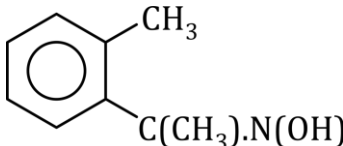
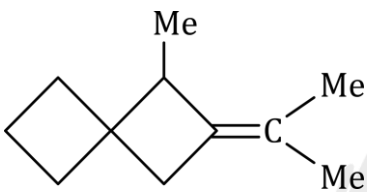
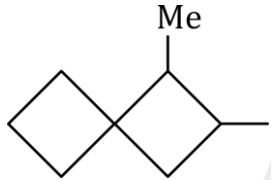
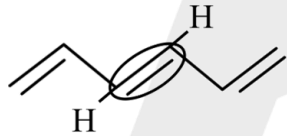
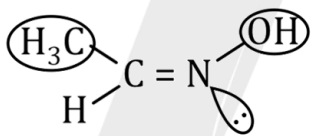
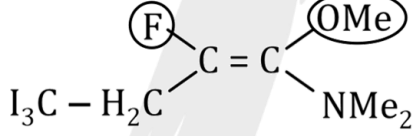
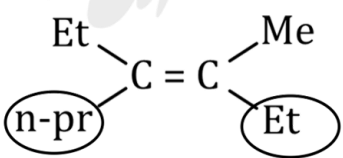


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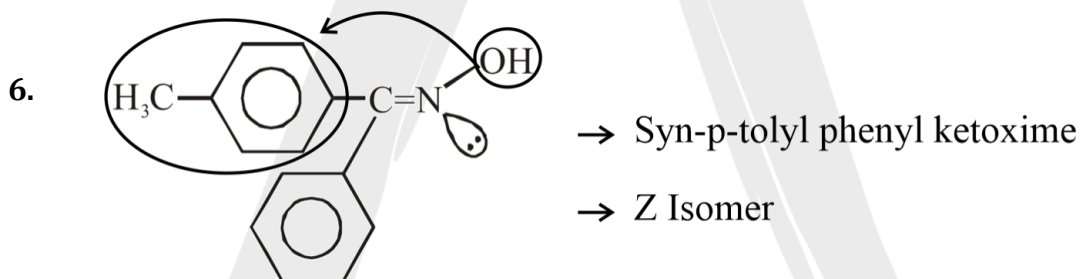
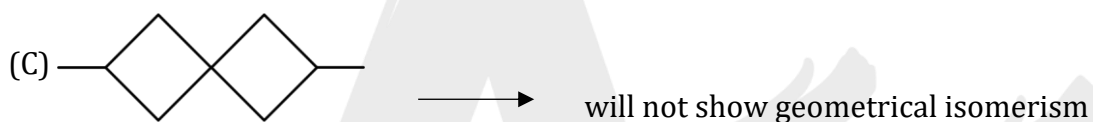
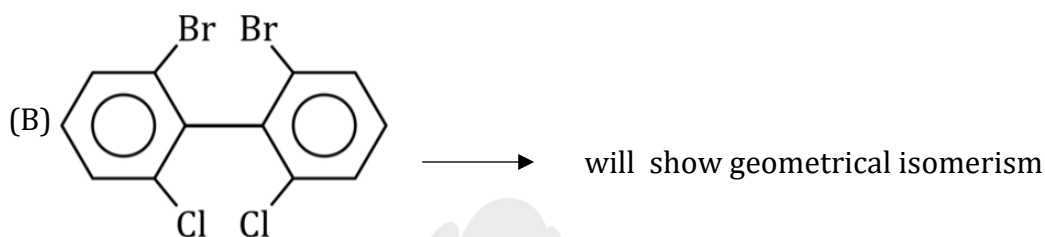
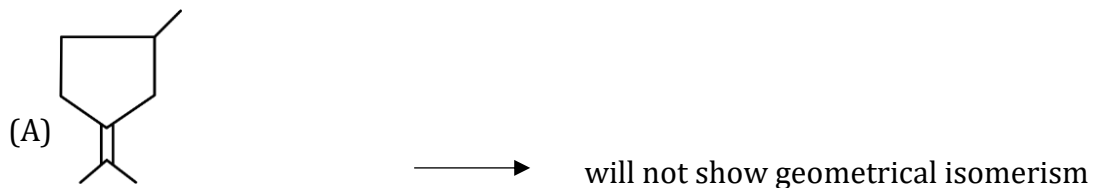
1.  Higher priority group are opposite side - Trans, E
-  Higher priority group are same side - Cis, Z
-  Higher priority group are opposite side - Trans, E
-  Higher priority group are same side - Cis, Z
2. (A,B,C)
- (A)  → will show geometrical isomerism
- (B)  → will show geometrical isomerism
- (C)  → will show geometrical isomerism
- (D)  → will not show geometrical isomerism

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3. (A)  \longrightarrow Will not show geometrical isomerism
- (B)  \longrightarrow Will not show geometrical isomerism
- (C)  \longrightarrow Will not show geometrical isomerism
- (D)  \longrightarrow Will show geometrical isomerism
4.  [Higher priority group are on opposite side] \longrightarrow E
-  [Higher priority group are same side] \longrightarrow Z
-  [Higher priority group are same side] \longrightarrow Z
-  [Higher priority group are same side] \longrightarrow Z

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5. Geometrical Isomerism:-



7. (A) → (II)
(B) → (I)
(C) → (I), (II) & (IV)
(D) → (I), (II), (III) & (IV)

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8. Simplest Alcohol to Exhibit optical Isomerism.

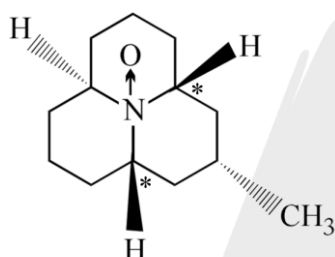
1- propanol $\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-OH}$ Absent

2- Butanol $\text{CH}_3\text{-}\overset{\text{OH}}{\underset{|}{\text{CH}_2}}\text{-CH}_2\text{-CH}_3$ Present

2- propanol $\text{CH}_3\text{-}\overset{\text{OH}}{\underset{|}{\text{CH}_2}}\text{-CH}_3$ Absent

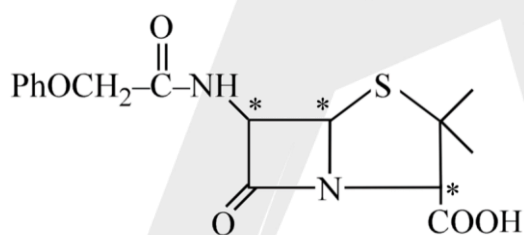
2- Butanol $\text{CH}_3\text{-CH}_2\text{-CH}_2\text{-CH}_2\text{-OH}$ Absent

9. (A)



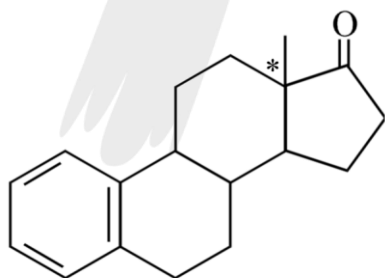
Number of chiral centre = 2

(B)



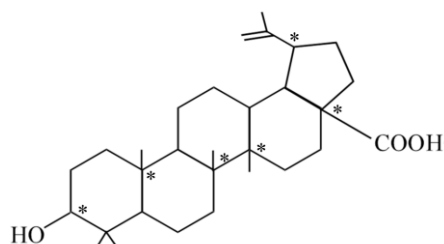
Number of chiral centre = 3

(C)




Number of chiral centre = 1

(D)



Number of chiral centre = 6

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