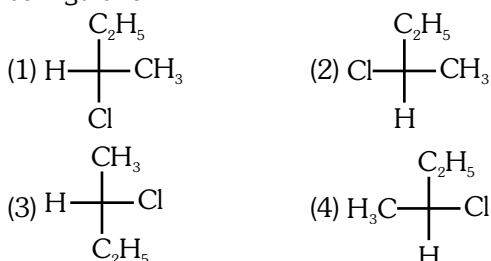


**AIPMT-2006**

1. Which of the following is not chiral :-  
 (1) 2-Butanol  
 (2) 2,3-Dibromo pentane  
 (3) 3-Bromo pentane  
 (4) 2-Hydroxy propanoic acid

**AIPMT-2007**

2.  $\text{CH}_3\text{—CHCl—CH}_2\text{—CH}_3$  has a chiral centre which one of the following represents its R configuration

**AIPMT-2008**

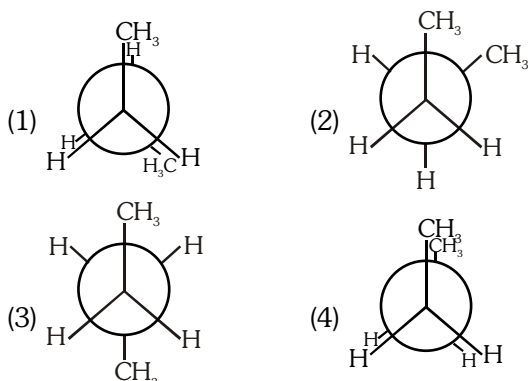
3. How many stereoisomer does this molecule have  
 $\text{CH}_3\text{CH=CHCH}_2\text{CHBrCH}_3$   
 (1) 8 (2) 2 (3) 4 (4) 6

**AIPMT-2009**

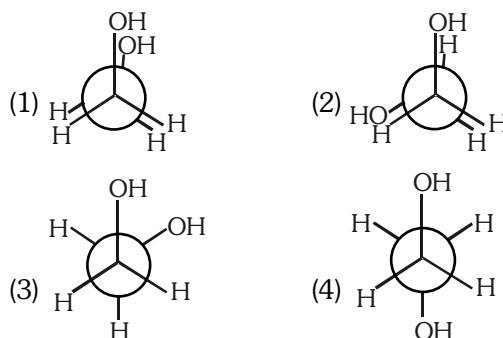
4. Which of the following compounds will exhibit cis-trans (geometrical) isomerism ?  
 (1) 1-Butanol (2) 2-Butene  
 (3) 2-Butanol (4) 2-Butyne

**AIPMT-2010**

5. In the following the most stable conformation of n-butane is :-



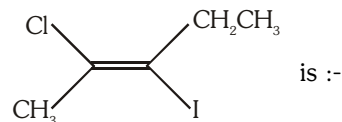
6. Which of the following conformers for ethylene glycol is most stable :-

**AIPMT Pre.-2012**

7. Which of the following acids does not exhibit optical isomerism?  
 (1) Lactic acid (2) Tartaric acid  
 (3) Maleic acid (4)  $\alpha$ -amino acids

**AIPMT Mains-2011**

8. The IUPAC name of the following compound



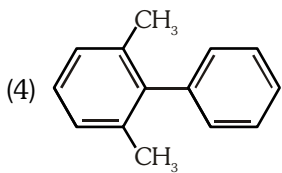
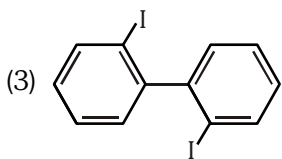
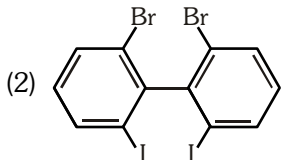
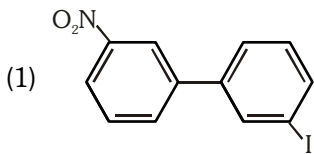
- (1) cis-2-chloro-3-iodo-2-pentene  
 (2) trans-2-chloro-3-iodo-2-pentene  
 (3) cis-3-iodo-4-chloro-3-pentene  
 (4) trans-3-iodo-4-chloro-3-pentene

**Re-AIPMT-2015**

9. Two possible stereo-structures of  $\text{CH}_3\text{CHOH.COOH}$ , which are optically active, are called :-  
 (1) Enantiomers  
 (2) Mesomers  
 (3) Diastereomers  
 (4) Atropisomers
10. The number of structural isomers possible from the molecular formula  $\text{C}_3\text{H}_9\text{N}$  is :  
 (1) 2 (2) 3 (3) 4 (4) 5

**NEET-I 2016**

**11.** Which of the following biphenyls is optically active?

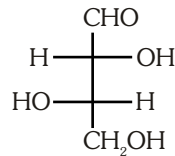
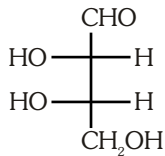
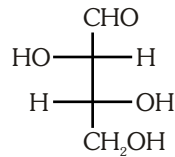
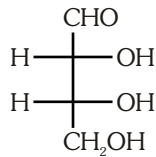


**12.** The **correct** statement regarding the comparison of staggered and eclipsed conformation of ethane, is :-

- (1) The staggered conformation of ethane is less stable than eclipsed conformation, because staggered conformation has torsional strain
- (2) The eclipsed conformation of ethane is more stable than staggered conformation, because eclipsed conformation has no torsional strain
- (3) The eclipsed conformation of ethane is more stable than staggered conformation even through the eclipsed conformation has torsional strain
- (4) The staggered conformation of ethane is more stable than eclipsed conformation, because staggered conformation has no torsional strain.

**NEET-II 2016**

**13.** The **correct** corresponding order names of four aldoses with configuration given below



respectively, is :-

- (1) L-erythrose, L-threose, D-erythrose, D-threose
- (2) D-erythrose, D-threose, L-erythrose, L-threose
- (3) L-erythrose, L-threose, L-erythrose, D-threose
- (4) D-threose, D-erythrose, L-threose, L-erythrose

**NEET(UG) 2017**

**14.** With respect to the conformers of ethane, which of the following statements is **true** ?

- (1) Bond angle changes but bond length remains same
- (2) Both bond angle and bond length change
- (3) Both bond angles and bond length remains same
- (4) Bond angle remains same but bond length changes

**NEET(UG) 2021**

**15.** Dihedral angle of least stable conformer of ethane is :

- (1)  $120^\circ$                       (2)  $180^\circ$   
(3)  $60^\circ$                         (4)  $0^\circ$

**16.** The compound which shows metamerism is:

- (1)  $\text{C}_5\text{H}_{12}$                       (2)  $\text{C}_3\text{H}_8\text{O}$   
(3)  $\text{C}_3\text{H}_6\text{O}$                       (4)  $\text{C}_4\text{H}_{10}\text{O}$

<b>Que.</b>	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
<b>Ans.</b>	3	2	3	2	3	3	3	2	1	3	2	4	2	3	4
<b>Que.</b>	16														
<b>Ans.</b>	4														