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NEET ISOMERISM — CONFORMATIONAL ISOMERISM — PYQS

Max. Marks: 28 **Questions:** 7

Section A (MCQ) — 7 questions

Q.1 Dihedral angle of least stable conformer of ethane is : [NEET (UG) 2021]

(1) 0° (2) 120° (3) 180° (4) 60°

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Q.2 With respect to the conformers of ethane, which of the following statements is true? [NEET 2017]

(1) Bond angle changes but bond length remains same.

(2) Both bond angle and bond length change.

(3) Both bond angle and bond length remain same.

(4) Bond angle remains same but bond length changes.

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Q.3 The correct statement regarding the comparison of staggered and eclipsed conformations of ethane, is [NEET 2016 (Phase 1)]

(1) the eclipsed conformation of ethane is more stable than staggered conformation even though the eclipsed conformation has torsional strain

(2) the staggered conformation of ethane is more stable than eclipsed conformation, because staggered conformation has no torsional strain

(3) the staggered conformation of ethane is less stable than eclipsed conformation, because staggered conformation has torsional strain

(4) the eclipsed conformation of ethane is more stable than staggered conformation, because eclipsed conformation has no torsional strain.

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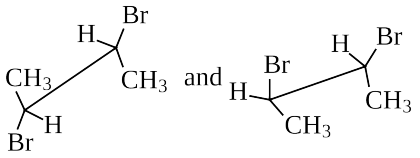
Q.4 Given:



I II

I and II are [NEET 2013 (Karnataka)]

(1) identical

(2) a pair of conformers

(3) a pair of geometrical isomers

(4) a pair of optical isomers

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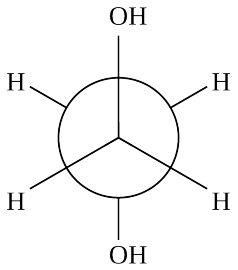
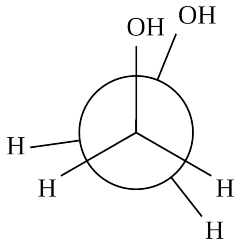
Q.5 Which of the following conformers for ethylene glycol is most stable? [AIPMT 2010 (Mains)]

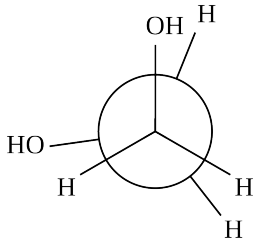
(1)



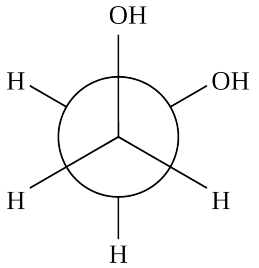
(2)



(3)



(4)



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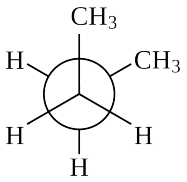
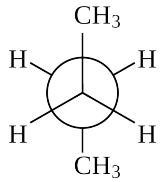
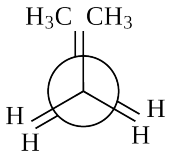
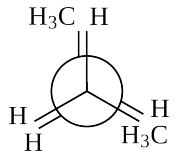
Q.6 In the following the most stable conformation of n-butane is [AIPMT 2010 (Prelims)]

(1) 

(2) 

(3) 

(4) 

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Q.7 Dihedral angle in staggered form of ethane is

[AIPMT 2000]

(1) 0° (2) 120° (3) 60° (4) 180°

Scan or tap for the full solution

ANSWER KEY

Ques.	1	2	3	4	5	6	7				
Ans.	**1**	**3**	**2**	**2**	**4**	**2**	**3**				