COMPETENCY BASED ASSESSMENT FEBRUARY 2024 CLASS XI

Q NO	CHAPTER	QUESTION	ANSWER	EXPLANATION	
1	HYDROCARBON	The dihedral angle in the staggered conformation of C2H6 is	As per the Arrangement for maximum angle		
2	HYDROCARBON	Bond length of (I) ethane, (II) ethene, (III) acetylene and (IV) benzene follows the order:	Greater the Bond Order Lesser is the Bond Length		
3	HYDROCARBON	Which of the following is NOT a aromatic compound I. Benzene ii. Napthalene iii Hexene iv Antracene	Hexene	Donot follow Aromaticity rule	
4	HYDROCARBON	Assertion: Acetylene is acidic in nature. Reason: Acetylene is sp hybridised.	Both Assertion and Reason are True but not correct explanation	Acetylene is acidic in nature due to easily replaceable Hydrogen	
5	HYDROCARBON	Assertion: Sodium acetate on Kolbe's electrolysis gives methane. Reason: Methyl free radical is formed at anode.	Assertion is False But Reason is true	In Kolbe's Electrolysis Even Carbon Compounds are formed	
6	HYDROCARBON	Assertion: All the hydrogen atoms in CH2 =C= CH2 are attached to sp2 hybridised carbon atom. Reason: All the carbon atoms in its are sp2 hybridized.	Assertion is True but Reason is False	Middle Carbon is sp Hybridized	
7	HYDROCARBON	Assertion: Methane cannot be obtained by Wurtz reaction. Reason: Wurtz reaction leads to the formation of symmetrical alkane having an even number of carbon atoms.	ASSERTION AND REASON ARE CORRECT BUT REASON IS NOT CORRECT EXPLAINATION	Follows Symmetrical Alkane formation in presence of Na in Dry Ether	

8	Hydrocarbon	Match the following:		Option No - 3	More the chain length	
		Nation the bond line shouture of hydrocarbon given in List i with the collision of the control of the control of the control of the control answer from the options given below: 60		polity point in K)		and Lesser the branching leads to High Boiling Point
9	HYDROCARBON	9. Which of the following is NOT an aromatic compound		Option - 1	Not following Huckel Rule and Conjugated	
		Which compared arroys the blowing is star a sonal compared to				syste
10	HYDROCARBON	Which amongst the following compounds will show geometrical isomerism? 1. Pent-1-ene 2. 2,3-Dimethylbut-2-ene 3. 2-Methylprop-1-ene 4. 3,4-Dimethylhex-3-ene			Option 4	Presence of Different Groups make cis trans relationship