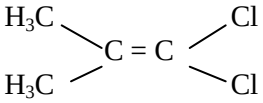
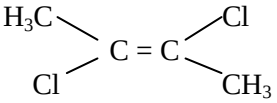
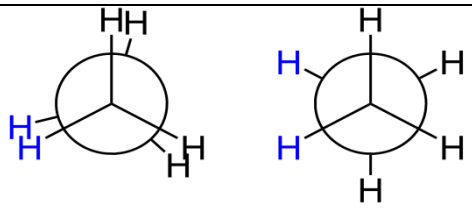
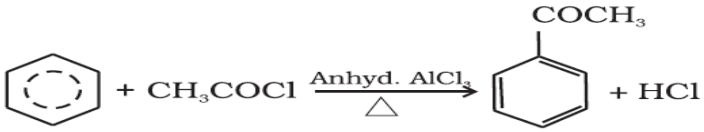
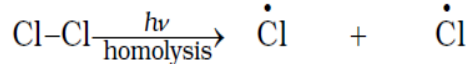
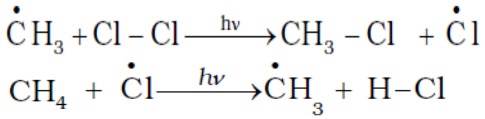
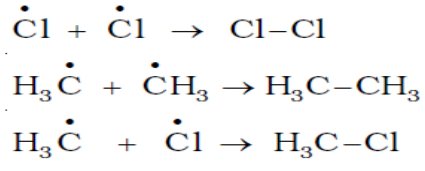
Class: XI	**INDIAN SCHOOL MUSCAT** **SECOND PERIODIC TEST** **Subject : Chemistry**	
	SET - A	
	VALUE POINTS	
1.	Ethene decolourises bromine water but not ethane.	1
2.	Positional isomerism	1
3.	Ethanal and propanone	1
4.	a)  Cis  Trans b) As it is resonance stabalised.	2
5.	a) It gives a mixture of alkanes. b) Ethyne>Propyne> But-2-yne	2
6.	 Staggered form is more stable than the eclipsed form. In staggered form the C-H bonds are far apart , thus there is minimum repulsive forces, minimum energy and maximum stability.	1+1
7.	a)  b) $2CH_3COONa + 2H_2O \xrightarrow{\text{Electrolysis}} CH_3\text{-}CH_3 + 2CO_2 + H_2 + 2NaOH$	2
8.	Initiation  Propagation  Termination  (any one)	3
9.	a) i) $CH_3\text{-}CH_3 \xrightarrow{Cl_2, h\upsilon} CH_3CH_2Cl \xrightarrow{Na,\ dry\ ether} CH_3CH_2CH_2CH_3$ ii) $C_6H_6 \xrightarrow[conc HNO_3]{conc H_2SO_4} nitrobenzene \xrightarrow[anhy AlCl_3]{Cl_2}$ nitrochlorobenzene b) Toluene will undergo nitration most easily as CH_3gp being electron releasing	3

	increases the electron density on benzene ring.	
10.	a) Benzene b) 1,2- Dibromo-2-methylpropane c) Dueto the fact that the H–Cl bond beingstronger than H–Br bond is not cleaved by the freeradical.	3