

Name: _____						
<b>Subject:</b> Chemistry		<b>Class:</b> 12 <sup>th</sup>		<b>Time:</b> 60 minutes		
<b>Chapter No.8</b>		<b>MJDexpert.com</b>			<b>Total Marks:</b>	<b>30</b>
				Obtained marks		

**Note:** Please attempt any 7 short questions from Question 2. Also, attempt both parts (a and b) of Question 3. Cutting and removal of any content is strictly prohibited.

### Objective-Section

**Q. 1 Encircle the correct answer by filling the appropriate circle. (8x1=8)**

- Hydrogenolysis of an alkyl halide takes place in the presence of catalyst**  
 (A)  $N_2H_4 / KOH$       (B)  $Zn - Hg / HCl$       (C)  $Pd / C$       (D)  $Ni - Al$
- Acetylene has a characteristic ethereal smell resembling that of**  
 (A) ginger      (B) vinegar      (C) garlic      (D) Onion
- Formula of chloroform is**  
 (A)  $CH_3Cl$       (B)  $CCl_4$       (C)  $CH_2Cl_2$       (D)  $CHCl_3$
- Synthetic rubber is made by polymerization of**  
 (A) Acetylene      (B) Divinyl acetylene      (C) Chloroprene      (D) Vinyl acetylene
- Which one is not a property or uses of mustard gas?**  
 (A) high boiling gas      (B) Powerful vesicant      (C) high boiling liquid      (D) Used in 1st world War
- Which type of reactions are not given by alkanes?**  
 (a) Addition      (b) substitution      (c) Elimination      (d) Polymerization
- Alkynes are non-polar; they are soluble in:**  
 (a) Diethyl ether      (b) Benzene      (c) Toluene      (d) All
- The presence of double bond in compound is sign of:**  
 (A) Saturation      (B) Un-saturation      (C) Sublimation      (D) Crystallization

### Subjective-Section

**Q.2 Write short answers of any seven of the following questions: (7x2=14)**

- What is Sabatier Sandren's reaction? Give its importance.
- What is hydrogenolysis?
- Write down structure (Formula) of (i) Vinyl chloride      (ii) Vinyl Cyanide
- Give four uses of methane.
- How Raney Nickel is prepared? Give one reaction in which Raney Nickel is used.
- How ethyne is prepared on Industrial scale.
- How would you convert Ethyne into Oxalic Acid?
- How mustard gas is prepared? Give its uses.

**Q.No.3 Long Question: (4+4=8)**

- Write a detailed note on Halogenation of Methane.
- Write down structural formulae for the products formed when 1-butene reacts with  
 (i) Cold dil.  $KMnO_4 / OH^-$       (ii)  $HBr$       (iii)  $O_2$  in the presence of  $Ag_2O$       (iv)  $HOCl$