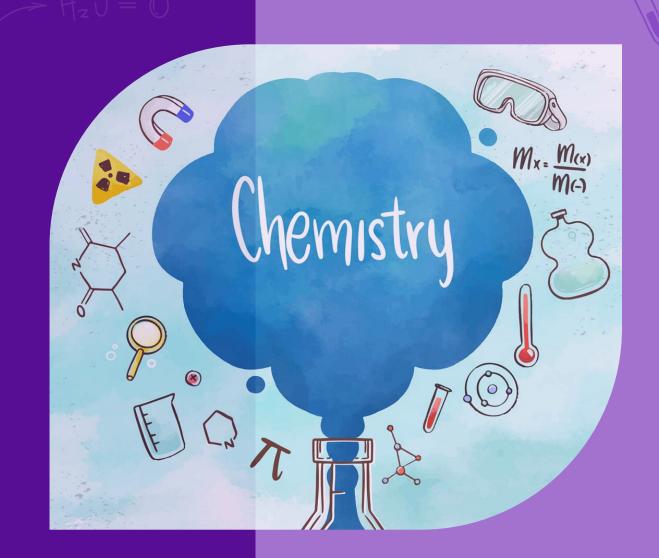
CLASS 10 ACADEMIC PROGRAM 2020

CHEMISTRY

LECTURE : C-31

CHAPTER 11 : MINERAL RESOURCES (11.4)

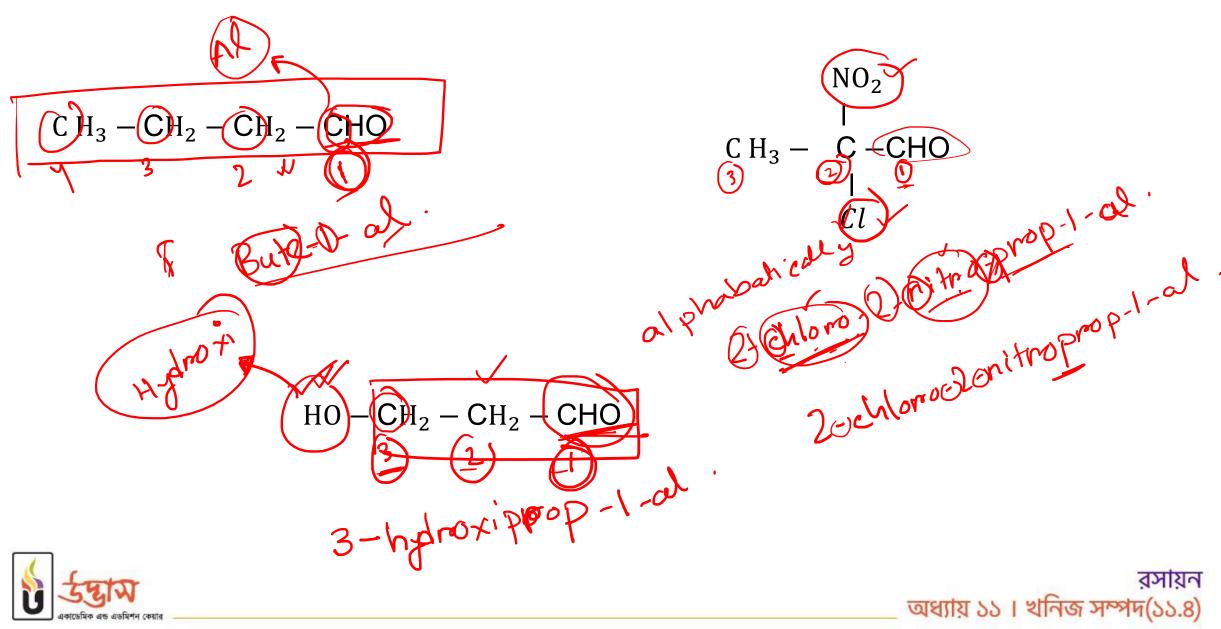


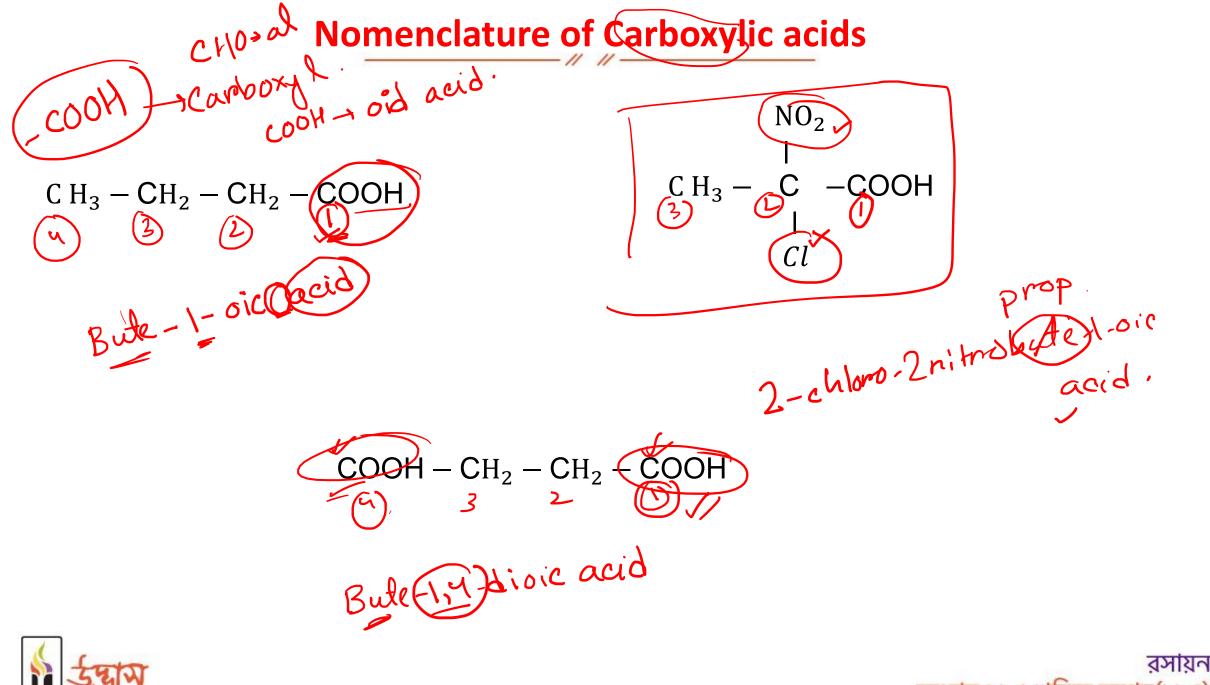


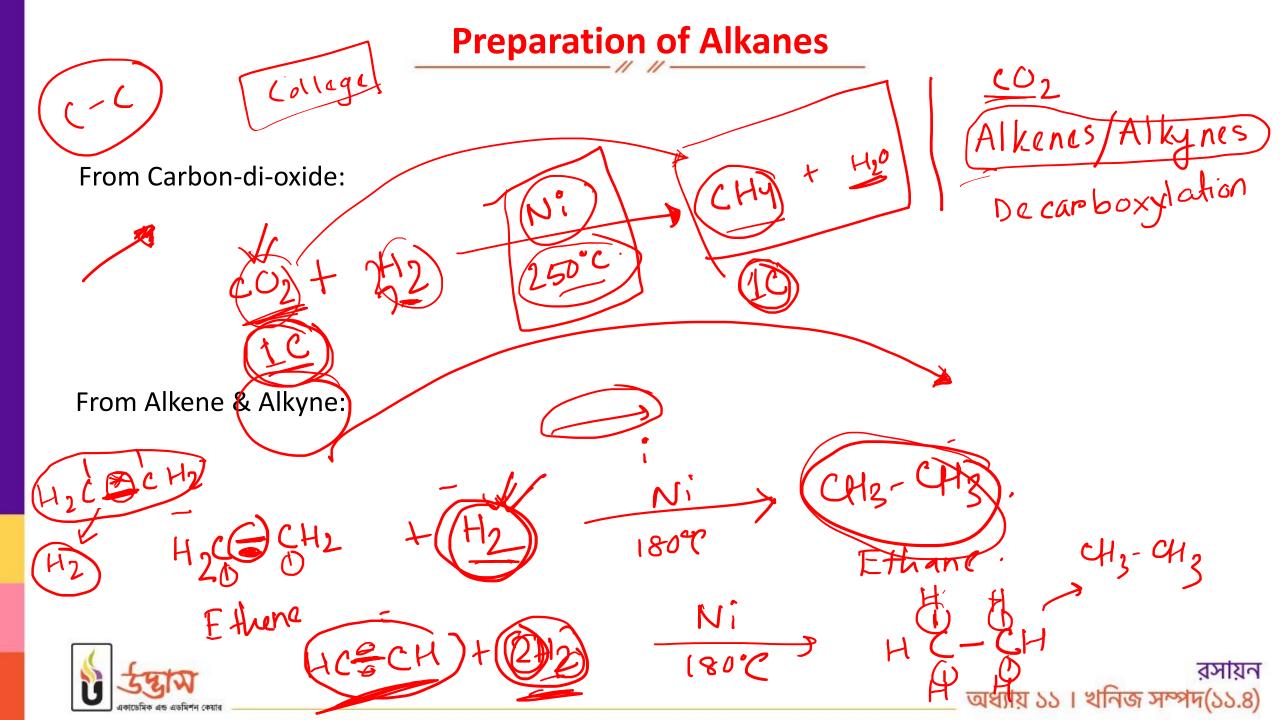


Cotto



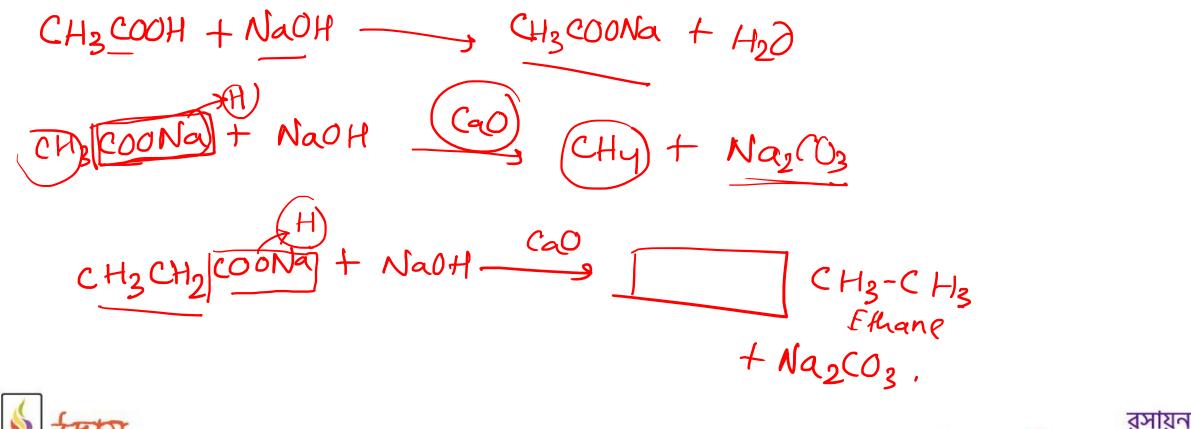






Preparation of Alkanes

From Decarboxylation:

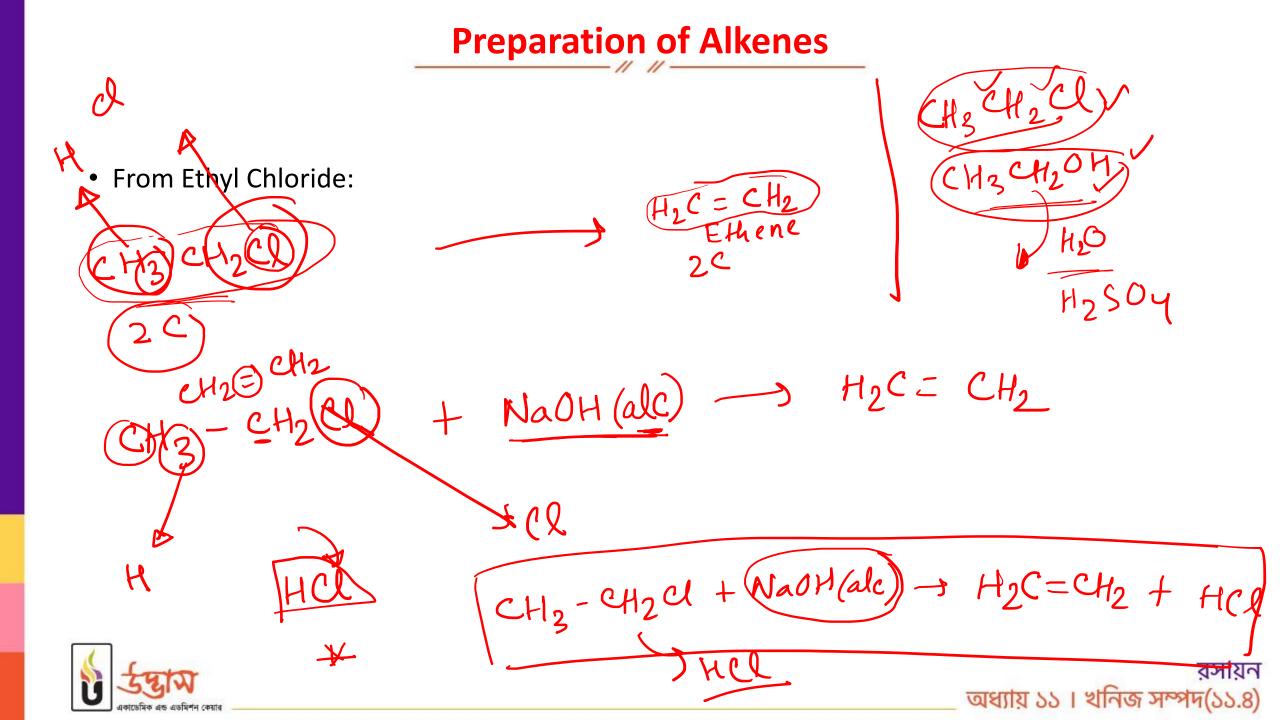


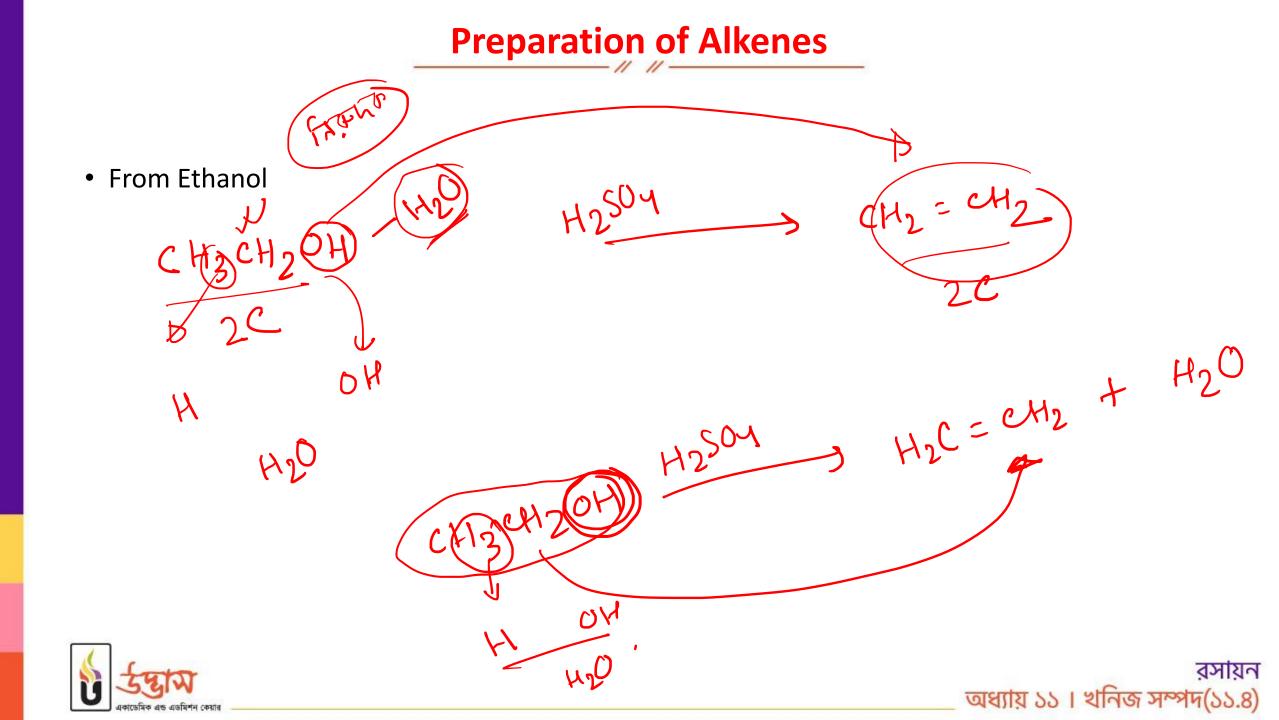
Chemical Reaction of Alkanes Repet With Chlorine: + HCl. $CH_3(l)$ CH2Cl2 + Hel. Cl_2 CHC13 + Hey N $c_{H2}c_{12} + c_{2}$ $c_{H}c_{13} + c_{2}$ CCLY অধ্যায় ১১ । খনিজ সম্পদ(১১.৪)

রসায়ন

Chemical Reaction of Alkanes

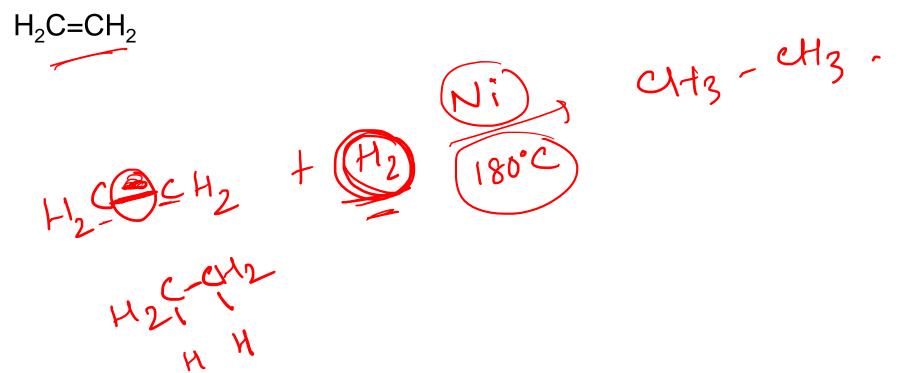
Collist 002 -> 8 CO2 + 9 H20 Combustion Reaction with Oxygen: χ $CO_2 + H_2O$ + 02Alkane) H2O O_2 + CHY 3 H, 2 +3.501 x c c z + t z $+ (\chi + \partial_{\chi})^{0} 2^{-3}$ $\chi + \partial/4$ 2+6/4 8+ 18/4 বসায়ন অধ্যায় ১১। খনিজ সম্পদ(১১.৪)



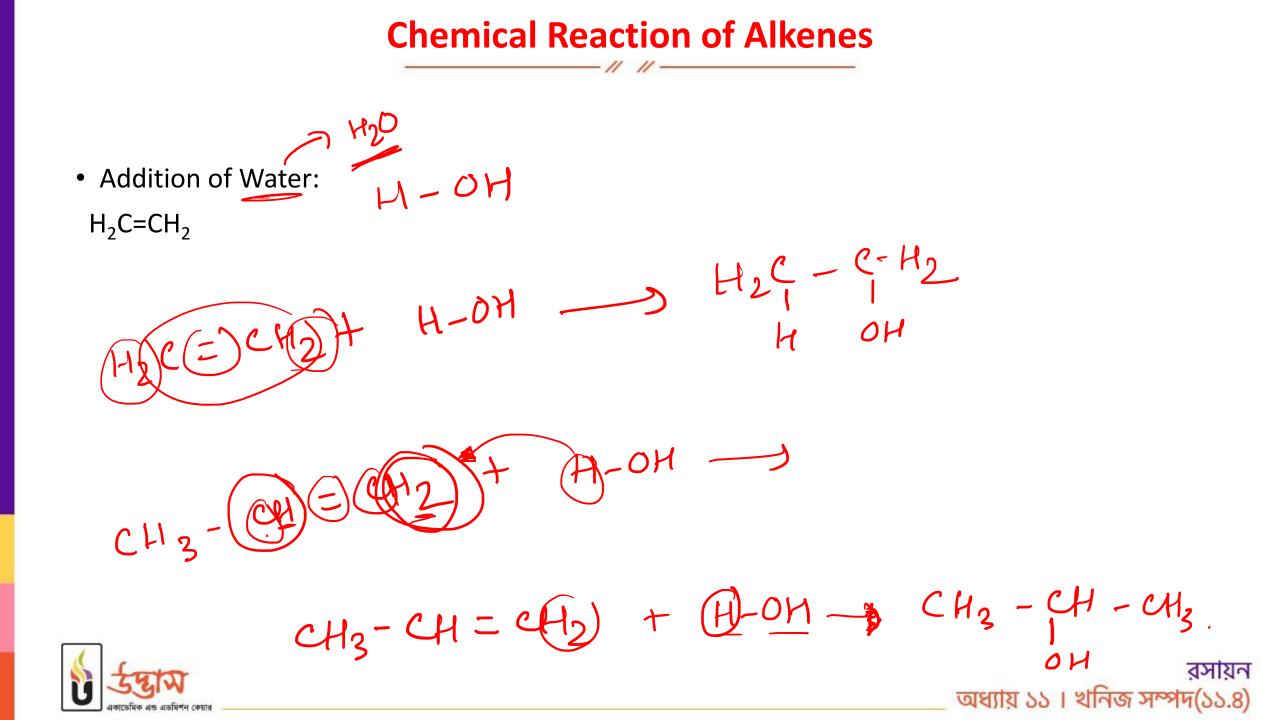


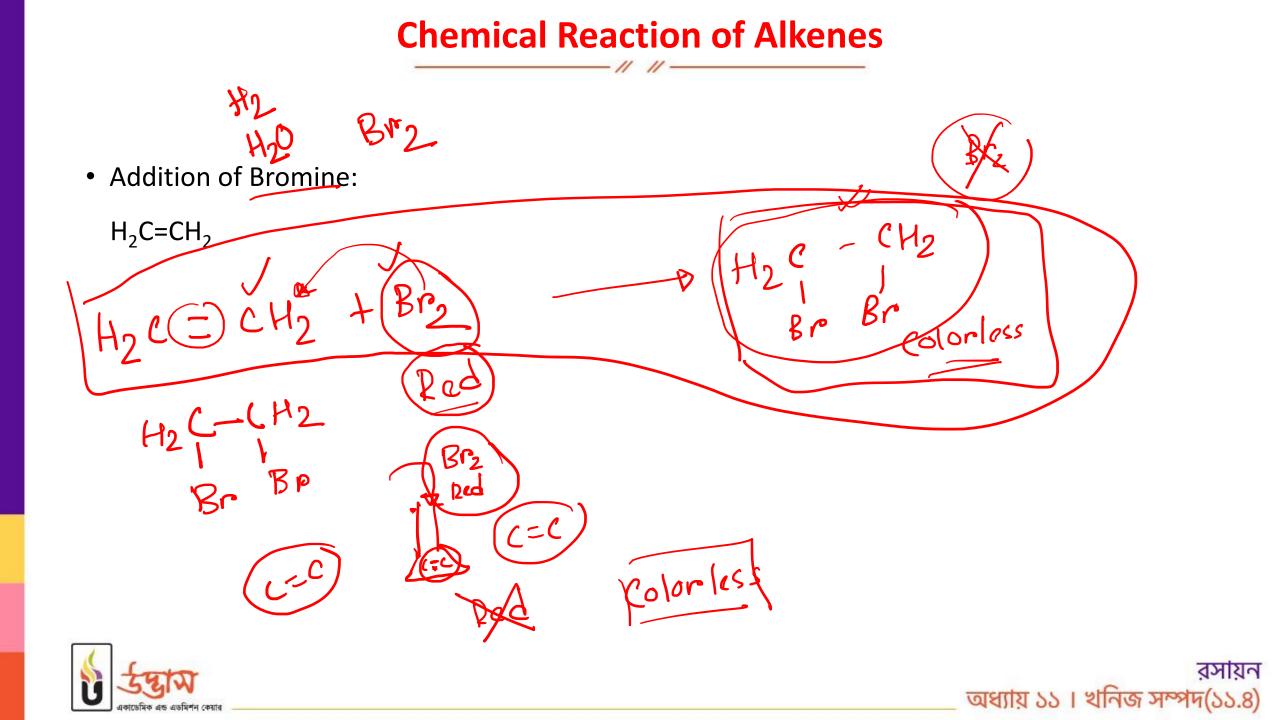
Chemical Reaction of Alkenes

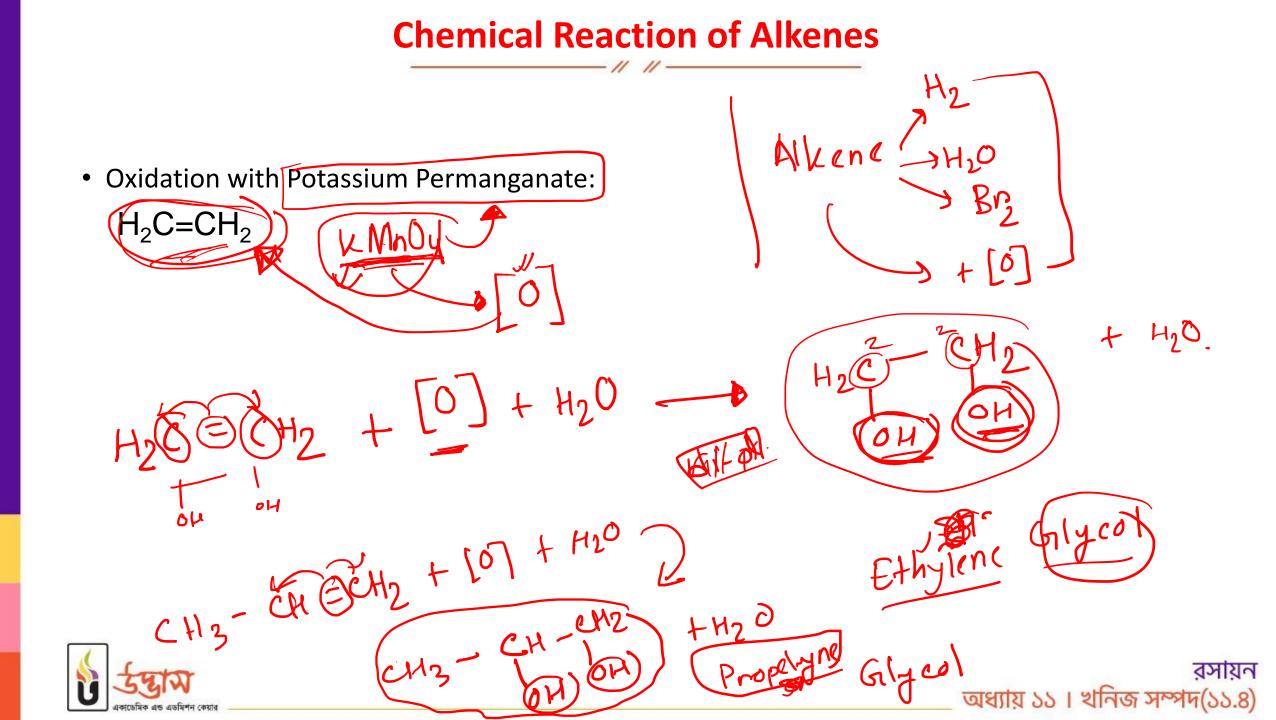
• Addition of Hydrogen:

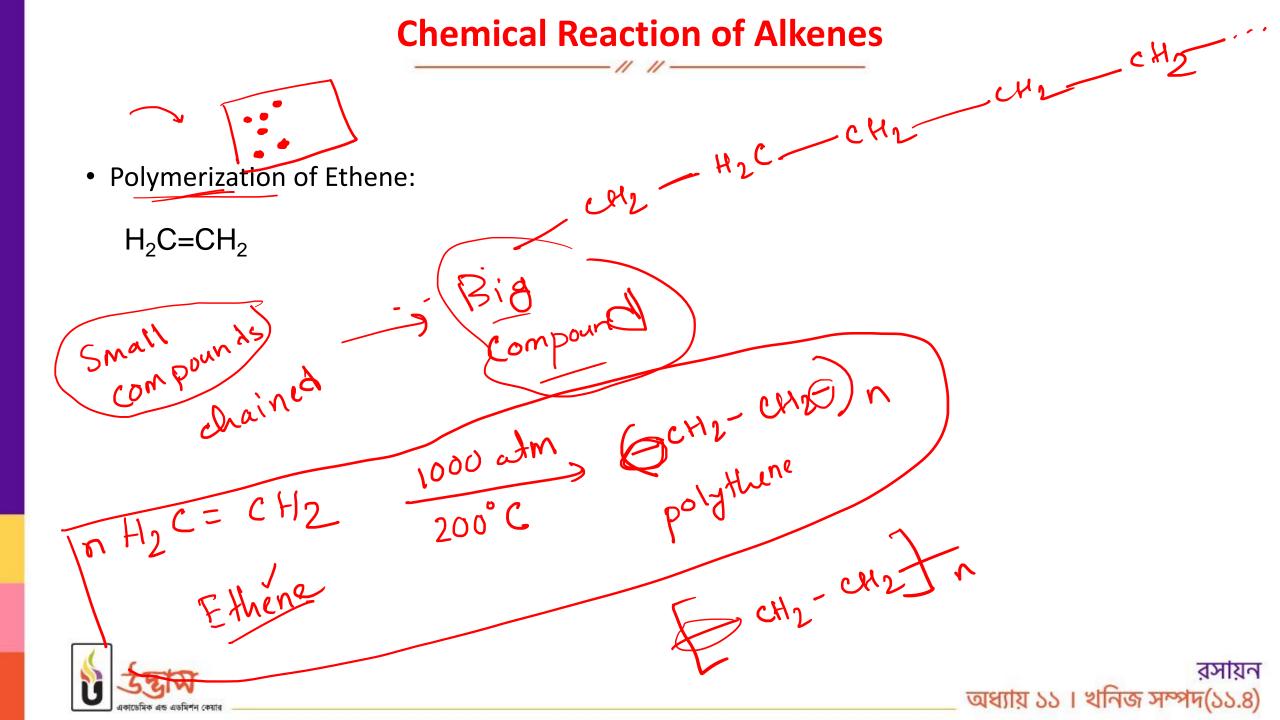




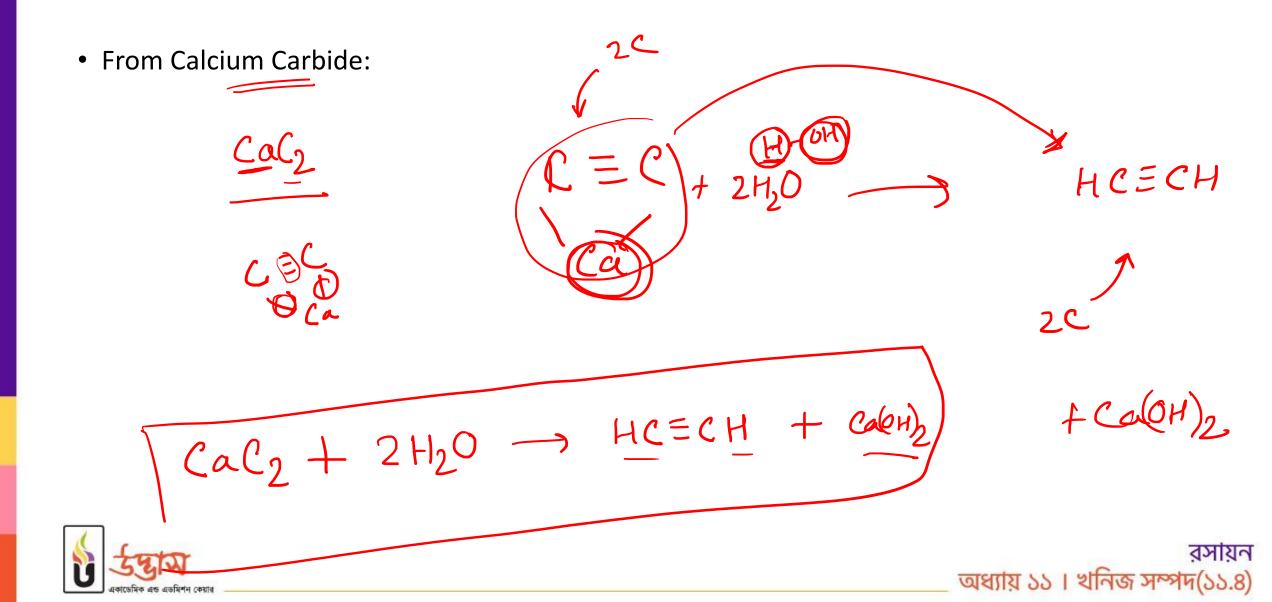






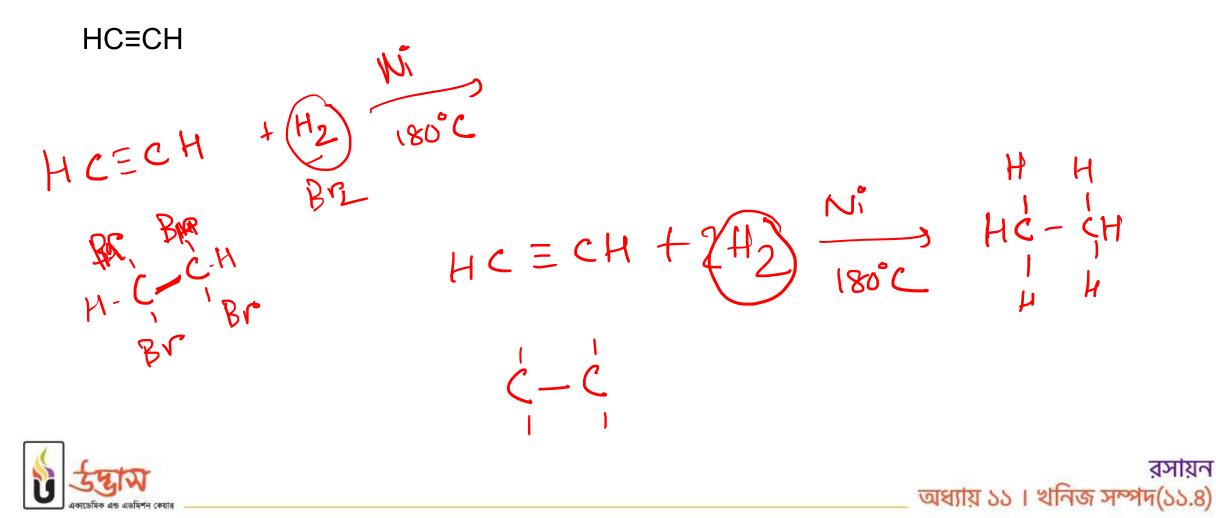


Preparation of Alkynes

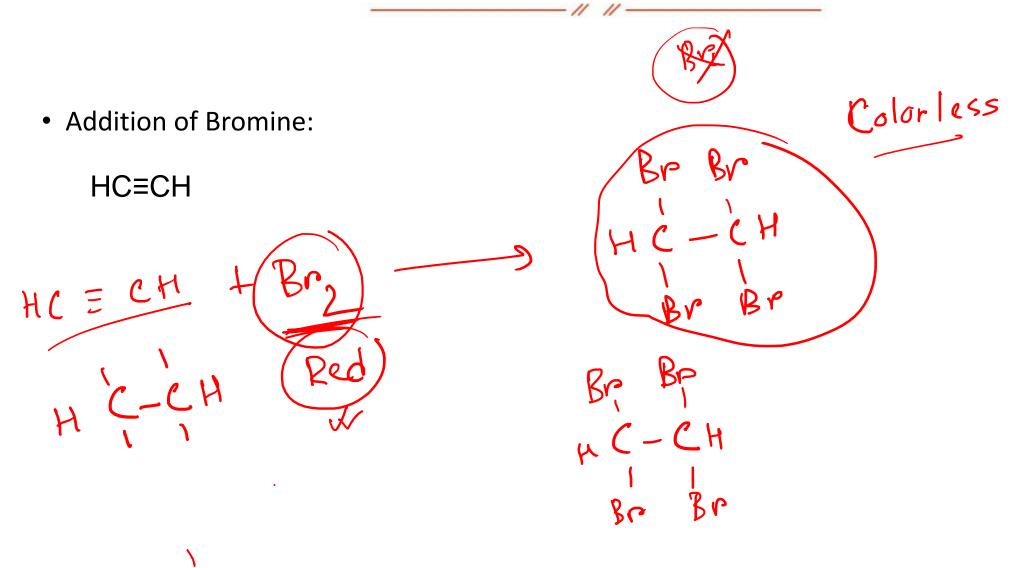


Chemical Reaction of Alkynes

• Addition of Hydrogen:

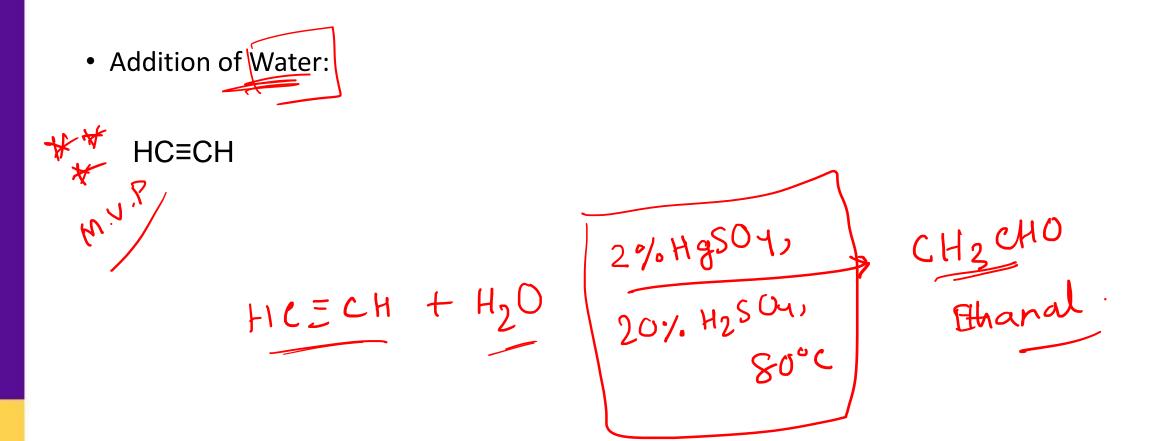


Chemical Reaction of Alkynes





Chemical Reaction of Alkynes



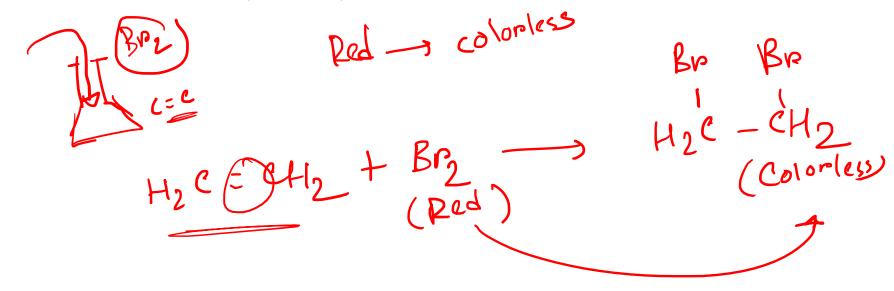


Test of Unsaturation

Alkani + Brz - s Red Red

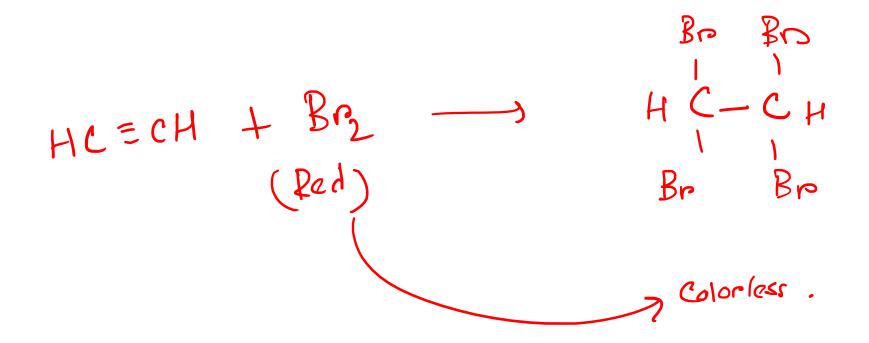


• The Bromine Test(Alkene):



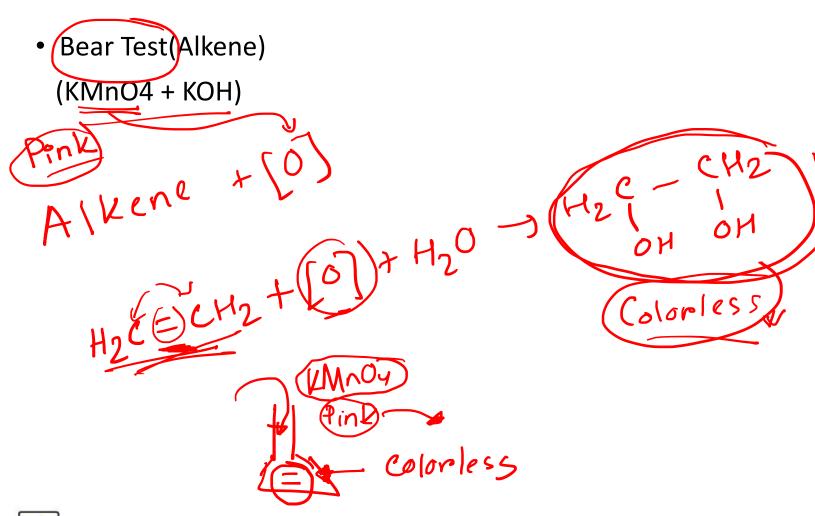
Test of Unsaturation

• The Bromine Test(Alkyne):

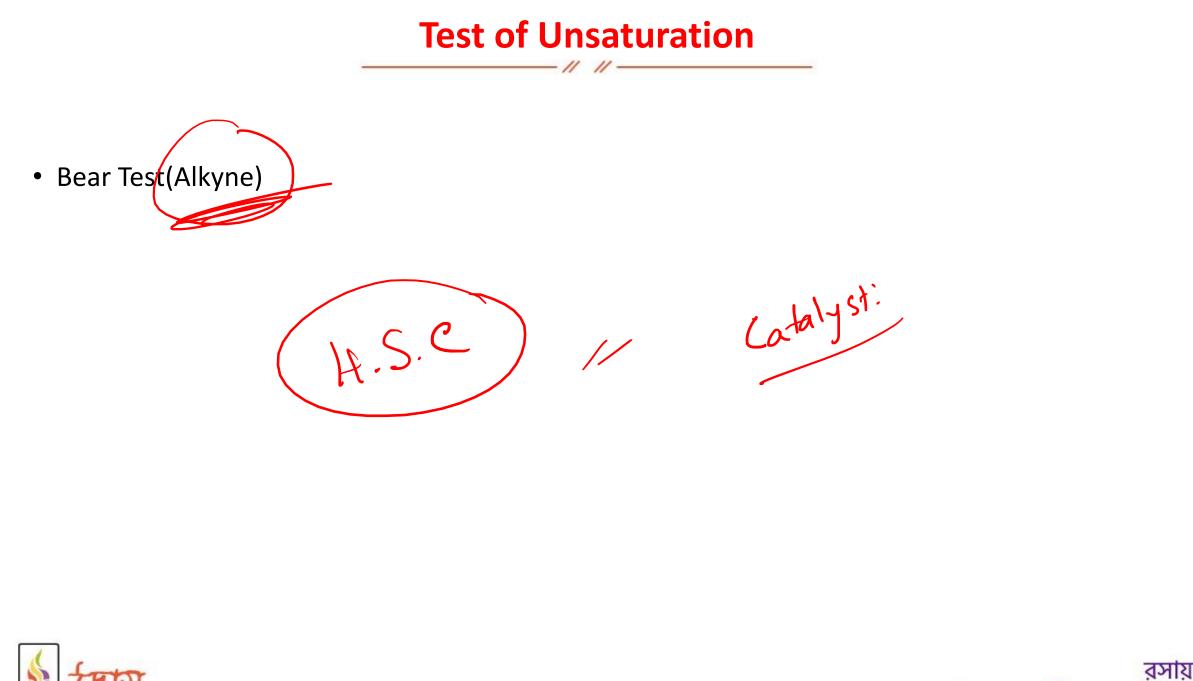




Test of Unsaturation







একাডেমিক এড এডমিশন কেয়ার

Practice Problems

• Nomenclature:

$$\begin{array}{ccc} CH_{3} & CH_{3} \\ & & \\ 1 & - & \\ CH_{3} - CH - CH_{2} - CH_{2} - CH_{2} - CH_{2} - CHO \\ & & \\ C_{2}H_{5} \end{array}$$

2. CH_3 - CH_2 -CH-CHO CH_2 - CH_2 - CH_2 - CH_3

3.
$$CH_{3}-CH_{2}-CH-CH_{2}-CH_{3}$$

COOH
4. $CH_{2}=CH-CH_{2}-CH_{2}$
COOH
5. $CH_{3}-CH_{2}=CH-CH=C-CH_{2}-CH_{3}$
 $CH_{2}-CH_{2}-CH_{3}$





5.
$$CH_3 - CH = CH_2$$

1000 atm, 200°C, O_2

4. HC≡C−CH₃ + H₂O (20% H₂SO₄ + 2% HgSO₄)
$$\rightarrow$$

3. $C_2H_6 + Br_2 (UV) \rightarrow$

2. CH₂−CH₂−CH=CH₂ + H₂O + [O] →

1. HC≡C−CH₃ + Br₂ →

Practice Reactions

□ In IUPAC system, what is the name of CH_3 –C=C–

 CH_3 ?

(a) Butyne

(b)bute-2,3-yne

(c) bute-2-yne

(d) 3-bute-2-yne



Which symbol is used between two numbers in

nomenclature?

(a) Full stop (.)

(b) Comma(,)

(c) Hyphen (-)

(d) Dash(—)



□ What does decarboxylation mean?

(a) Decrease of carbons

(b) Increase of carbons

(c) Decrease of carboxyl

(d) Increase of carboxyl



□ Which catalyst is used in the addition of hydrogen?

(a) ₂₆Fe (b) ₂₅Mn (c) ₂₇Co

(d) ₂₈Ni



□ Which catalyst is used in the addition of water?

(ক) H₃PO₄ (খ) H₃PO₃ (গ) H₃PO₂

(되) H₂SO₄



□ What is the general formula of alkynes ?

(a) $C_n H_{2n-2}$

(b) $C_n H_{2n}$

(c) $C_n H_{2n+2}$

(d) $C_{2n}H_{2n-2}$



□ Which one is applicable for addition of water to

```
ethynes?
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(a) 20% HgSO₄, 2% H₂SO₄, 100°C

(b) 20% H₂SO₄, 2% HgSO₄, 100°C

(c) 20% HgSO₄, 20% H₂SO₄, 80°C

(d) 20% H₂SO₄, 2% HgSO₄, 80°C



JV GH5CI + HCl C2H6 + Cl2 $\longrightarrow \mathcal{I}\mathcal{O}\mathcal{O}_2 + \mathcal{J}_2 + \mathcal{J}_2 + \mathcal{O}$ H (2+8/4)02 - $2 C + 3 H_2$ 3.5 02 _____ 2+6/4 অধ্যায় ১১। খনিজ সম্পদ(১১.৪)

বসায়ন

লেগে থাকো সৎ ভাবে, স্বপ্ন জয় তোমারই হবে।

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