**STD: 10 SOLUTION- ORGANIC CHEMISTRY DATE: 24/4/2020**

Q.NO.14

a) CH3COONa + NaOH Cao CH4 + Na2CO3

b) CH3-I + 2[H] Zn/Cu couple CH4 + HI

alcohol

c) C2H5COONa + NaOH Cao C2H6 + Na2CO3

d) C2H5-Br + 2[H] Zn/Cu couple C2H6 + HBr

alcohol

Q.no.15

a) CH4 + Cl2 uv light CH3Cl + HCl

b) CH3Cl+ Cl2 uv light CH2Cl2 + HCl

c) CH2Cl2 + Cl2 uv light CHCl3 + HCl

d) CHCl3+ Cl2 uv light CCl4 + HCl

b) CH4 + 2O2 CO2 + 2H2O

a) C2H6 + Cl2 uv light C2H5Cl + HCl

ethane

C2H5Cl + Cl2 uv light C2H4Cl2 + HCl

C2H4Cl2 + Cl2 uv light C2H3Cl3 + HCl

C2H3Cl3 + Cl2 uv light C2H2Cl4+ HCl

C2H2Cl4 + Cl2 uv light C2HCl5 + HCl

C2HCl5 + Cl2 uv light C2Cl6 + HCl

hexachloroethane

b) 2C2H6 + 7O2 4CO2 + 6H2O

Q.no. 19

Uses of methane- domestic fuel, manufacture of chloroform, carbon tetrachloride

uses of ethane- domestic fuel, manufacture of ethanol, ethanal, ethanoic acid .