NaOH+ CI_2 \longrightarrow NaCl + NaClO₃ + H_2O

c) Write the formula of following compounds:

i) Acetic acid ii) Ethanol iii) Ethene iv) Acetaldehyde v) Ethyne

b) What is hard water and soft water?

APPLIED CHEMISTRY-I 1st Exam/Common/6052/Jun/2021 (For 2018 batch onwards)

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Duration: 1.15Hrs. M.	Marks:25
SECTION-A	
Q1. Attempt any five questions.	5x3=15
a. Draw the shapes of s and p orbitals.	
b. Differentiate between orbit and orbital.	
c. Calculate the pH of 0.01 M HCl.	
d. What are the advantages of Long form of periodic table?	
e. What are the limitations of Bohr's atomic model?	
f. State Faraday's First law of Electrolysis.	
g. What are the qualities of drinking water?	
h. What is an Ionic bond? Give example.	
i. State Aufbau's principle.	
SECTION-B	
Attempt any one question.	1x10=10
Q2. What are Quantum numbers? Explain all the four quantum numbers in detail.	10
Q3. a) Write a note on periods of periodic table.	5
b) Give the characterstics of Homologous series.	5
Q4. a) Explain sp hybridization by taking suitable example.	5
b) Explain molarity, normality and molality.	5
Q5. a) Balance the following equation by Hit and Trial method:	3