



- a) Monoatomic  
c) Trioatomic
- b) Diatomic  
d) Both Monoatomic and Diatomic
- (ix) Which of the following is a wrong combination?  
 a)  $6.022 \times 10^{23}$  molecules of oxygen = 32g of oxygen  
 b)  $6.022 \times 10^{23}$  ions of sodium = 23g of sodium  
 c)  $6.022 \times 10^{23}$  atoms of C = 24g of carbon  
 d)  $6.022 \times 10^{23}$  atoms of H = 1g of hydrogen atoms
- (x) Maximum number of electrons in a subshell d is  
 a) 5  
 b) 6  
 c) 10  
 d) 14
- (xi) The maximum number of electrons that can be accommodated by p orbital is  
 a) 6  
 b) 10  
 c) 2  
 d) 14
- (xii) An electrolyte is a substance which  
 a) conducts electricity in solid state  
 b) decomposes on heating  
 c) is acidic in nature  
 d) when dissolved in water ,dissociates into ions
- (xiii) One Faraday is equal to:  
 a) 9650 coulomb  
 b) 10000coulomb  
 c) 19640 coulomb  
 d) 96500 coulomb
- (xiv) Carbon atom combines with other C atoms to form a long chain. This property is known as  
 a) Isomerism  
 b) Acetylene  
 c) Catenation  
 d) Homologous series
- (xv) An example of aromatic compound is  
 a) Benzene  
 b) Napthalene  
 c) Both Benzene and Napthalene  
 d) None of these

**Group-B**

(Short Answer Type Questions)

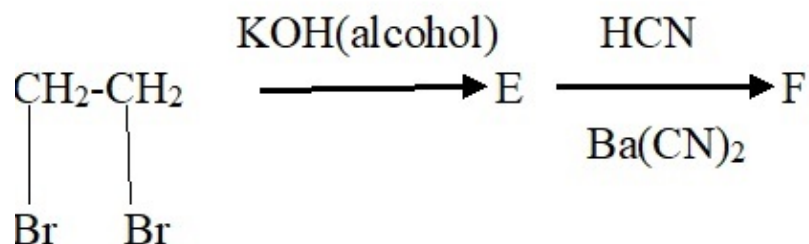
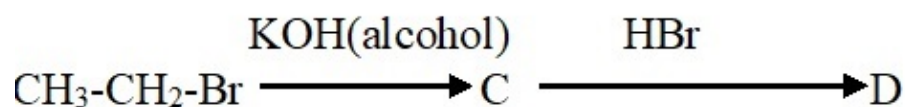
3 x 5=15

2. Explain basicity of acids and acidity of bases with suitable example. (3)
3. Which is more reactive metal Cu or Ag and why (According to electrochemical series)? (3)
4. How can you determine the hardness of water by EDTA method? (3)
5. What are the differences between electrolytic cell and galvanic cell? (3)
6. What type of chemical bonds is present in CO<sub>2</sub>? (3)

**OR**

(3)

Identify the sequence of reactions.

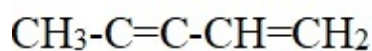
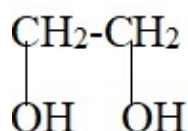


### Group-C

(Long Answer Type Questions)

5 x 6=30

7. Write differences between calcination and roasting. Explain amalgum?[3+2] (5)
8. How is ethylene prepared in the laboratory? What are the functional groups present in  $\text{CH}_3\text{-CHO}$ ,  $\text{CH}_3\text{-OH}$  and  $\text{CH}_3\text{-O-CH}_3$  respectively?[2+3] (5)
9. Define Avogadro number. What do you mean by Basicity of acids and Acidity of bases? Explain with examples. [1+2+ 2] (5)
10. What is Blister Cu? What is anode mud? [3 2] (5)
11. Write the IUPAC name of the following molecules. (5)



[1+2+2]

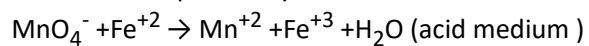
**OR**

What do you mean by electroplating? What is the purpose of electroplating?[2+3] (5)

12. Define Isomerism. Classify isomerism.[2 3] (5)

**OR**

Balance the equation by ion electron method (5)



\*\*\*\*\*