CQ Part

Q -1. Observe the following stem and answer the questions.

| 20mL 0.5M monobasic Acid	25mL 0.15M Diacidic Base
X-solution	Y-solution

a. What is standard solution?

b. Molarity is temperature depended-Explain why?   2

c. How can you convert the X-solution into a decimolar solution.   3

d. If two solutionin of the stem are mixed together, What will be nature of mixture?
Explain mathematically.   4

MCQ Part

➢ Observe the following stem and answer
the question no-1
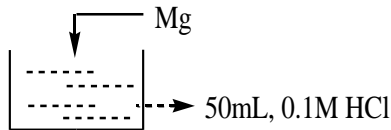
The above HCl solution is completely nutralized by 'Mg'

1. What is the mass of 'Mg' in the stem?
a. 0.02g   b. 0.03g
c. 0.04g   d. 0.06g

2. What is the p.p.m of 2% HCl?
a. 10000   b. 14000
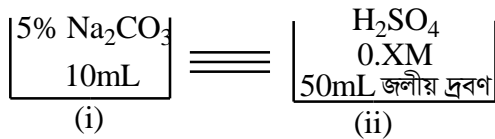c. 20000   d. 22000

3. What does 1 ppm means?
i. $1mg.L^{-1}$
ii. $1\mu g.L^{-1}$
iii. $1\mu g.mL^{-1}$
Which one is correct?
a.i & ii   b. i & iii
c. ii & iii   d.i, ii & iii

➢ Observe the following stem and answer the next two questions:

(i)   (ii)

4. What is the molarity of solution-(i)
a. 4.7M   b. 1.25M
c. 0.47M   d. 0.2M

5. What is the value of "X" in the stem?
a. 0.047M   b. 0.094M
c. 0.188M   d. 0.24M