(1 M	ark)
Q2 -What is a Common Ion Effect?	
(2 Ma	ırks)
Q3 - At equilibrium, the concentrations of N ₂ =0.0032 M, O ₂ = 0.0043 M and NO =0.0026 M in a sealed vessel at 800K. What will be Kc for the reaction? $N_2(g) + O_2(g) = 2NO(g)$	b
(2 Ma	ırks)
Q4 -12.8 gm of N2O4 was placed in a 1L reaction vessel at 400 K and allowed to attain equilibrium $N_2O_4 \longrightarrow 2NO_2$	
The total pressure at equilibrium was found to be 8.29 bar calculate Kp ,Kc and partial pressure at equilibrium?	
(5 Ma	ırks)
OF Undrohusis of suprose since	
Q5 -Hydrolysis of sucrose gives,	
Sucrose + water === Glucose + Fructose	
Equilibrium constant, Kc for the reaction is 3x10 ¹¹ at 300 K. Calculate $\Delta ext{G}$ at 300 K	
(2 Ma	ırks)
Of Write conjugate acid of NU	
Q6 -Write conjugate acid of NH ₃ .	
(1 M	ark)
Q7 -Write conjugate acid of HCOO ⁻ .	
(1 M	ark)

Q9 - The ionization constant of HF is 3.4×10^{-4} . Calculate the degree of dissociation of HF in its 0.02 M solution?

Q10 - Calculate the solubility of AX in pure water. The solubility product of AX is 2.5 x10⁻²⁰.

(2 Marks)

(3 Marks)

(1 Mark)

XI Chemistry Worksheet

Instructions:

Time: 30 min

1. All questions are compulsory.

2. Please give the explanation for the answer where applicable.

Q1 -Define Lewis Acids and Bases.

Q8 -Write conjugate base of HCIO₄.

Ch#7 : Equilibrium -03

Full Marks: 20