

SHIVAJI COLLEGE, UNIVERSITY OF DELHI

DEPARTMENT OF CHEMISTRY

INTERNAL TEST -2 (Academic Year 2023-24)

Name of the Course : B.Sc. (P) Life Science

Sem : III

Name of the Paper : Chemical Energetic and Equilibrium

Faculty Name: Dr. Pallavi Agarwal

Duration : 3 h

10/11/2023

Retest

M. M. 10

20

Sun

Do any two questions.

Q1. Find the relationship b/w K_p , K_c & K_x
Find the condition when
 $K_p = K_c = K_x$

Q2. Calculate the pH of pure water at 40°C
Given that $K_w = 2.8 \times 10^{-14} \text{ M}^2$.

Q3. State third law of thermodynamic
What is residual entropy. Calculate it
for NO ?