KATWA COLLEGE

SEMESTER-V HONOS. COURSE

INTERNAL ASSESSMENT EXAMINATION – 2021

DEPARTMENT: CHEMISTRY

SUBJECT: Chemistry COURSE CODE: DSE-2

FULL MARKS: 10 **TIME: 1.00 P.M. – 2 P.M.** **DATE:13.01.2022**

Answer the following questions **2+2+3+3**

1. Calculate the mean and the standard deviation of the following set of analytical results:15.67, 15.69, and 16.03 g.
2. Write down the significance of ε.
3. Explain the nature of the curve obtained in conductometric titration when we titrate a mixture of HCl and CH_3CO_2H by NaOH solution as titrant.
4. 20 mg mixture of $CaCO_3$ and $MgCO_3$ are heated up to 600°C and observed 22% of weight loss near 400°C in thermogravimetric analysis. What is the ratio of Ca/Mg in the mixture?

N.B. Send your answer script to the following Email-Id:**saptarshitcd@gmail.com**