

University of Kalyani
S.R. Fatepuria College, Beldanga
U.G 5th semester examination 2021
[Programme course]
CHEMISTRY PRACTICAL
BLENDED MODE

F.M-20

Time-3hrs

1. Answer any five (5X2=10)

- a) What do mean by total hardness of water?
- b) What is the working formula of determining P_H of an unknown solution?**
- c) In a strong acid and weak acid mixture when titrated with strong base which indicator has been used and why?**
- d) Is $KMnO_4$ a primary standard or secondary standard solution? Calculate the equivalent weight of $KMnO_4$.
- e) Give the principle of estimation of strength of H_2O_2 sample?
- f) What is the rate constant of an 1st order reaction?

2. Answer any two (2X5=10)

- a) Give the working principle of determines the solubility product of potassium hydrogen tartrate. What is the main element in pyrolusite? [4+1]
- b) Is P_H maintain is necessary in estimation of hardness of water? What is the importance of Eriochrome Black T in this reaction? Give structure of EDTA. [1+2+2]
- c) Give the procedure and working formula of available oxygen in pyrolusite.

