

B.Sc. Part-III Honours
Final Internal Assessment
Sub: CHEMISTRY

Inorganic Quantitative Practical, Paper-XIII, F.M.-20, Time: 45 Minutes

Date: 18.07.2020, Time: 7 P.M. to 7-45 P.M

ANSWER ALL

1.	When & why silky and milky white precipitate appears during iron estimation from binary mixture?	2
2.	Calculate the amount of weight required for the preparation of 250 mL (N/10) $K_2Cr_2O_7$ solution.	2
3.	What is Zimmerman Reinherdt (ZR) solution?	2
4.	Discuss briefly the role of $MnSO_4$ solution present in ZR solution during permanganometric titration of Fe(II).	2
5.	Calculate the equivalent weight of $Na_2S_2O_3 \cdot 5H_2O$ solution.	2
6.	Draw the structure of BaDS indicator.	2
7.	Which precipitate and filter paper are involved for Ca separation from Fe/Ca binary mixture.	2
8.	How many moles of $KMnO_4$ is required to oxidize 35 moles of Fe^{2+} ions ?	2
9.	Why excess $SnCl_2$ solution is avoided to reduce Fe(III) solution prior to addition of $HgCl_2$ solution during iron estimation from binary mixture.	2
10.	Write the reaction involved for Cr(III) separation from Fe/Cr binary mixture.	2