SEMESTER	III	QP CODE	23ANCH31

P.R. GOVERNMENT COLLEGE (AUTONOMOUS), KAKINADA
SEM END EXAMINATIONS NOV -2024
II B.SC ANALYTICAL CHEMISTRY: QUANTITATIVE METHODS OF ANALYSIS

TIME: 2 HRS

DATE& SESSION	15.11.24 & AN	REG NO									MAX MARKS	50

SECTION-I

Answer any THREE of the following questions. And attempt one question from Each section part Each question carries TEN marks **3X10=30Marks**

PART-A

1. Specify the principles of Volatilization methods. How do you determine the Sodium Bi-carbonate ($NaHCO_3$) content of Antacid tablets by using volatilization method? BT2, CO1,PO3
2. Evaluate the properties of precipitates and precipitating reagents. BT3, CO1, PO4
3. What is an Indicator? List out the various theories of Indicators. BT1, CO2, PO1

PART-B

4. By using the concept of centrifugation, Explain different types of centrifugations techniques. BT2, CO3, PO3
5. Explain about different types of rotors. BT1, CO3, PO1
6. Develop the process to determination of Cu and Zn in brass by using Polarography technique. BT4, CO4, PO5

SECTION-II

Answer any FOUR of the following questions. Each question carries FIVE marks

4 X 5=20Marks

7. Evaluate the concept involved in Colloidal precipitates. BT3, CO1, PO2
8. What is Buffer? Explain briefly about Buffer solutions. BT1, CO2, PO1.
9. Explain briefly about Complexometric and Redox titrations with examples. BT1, CO2, PO1.
10. Write about sedimentation. BT1, CO3, PO1
11. Explain briefly about Water analysis. BT1, CO3, PO1
12. Write the advantages and disadvantages of DME BT1, CO4, PO1
13. Explain about residual current and migration current BT1, CO4, PO1.