SEMESTER

III

QP CODE

23ANCH32



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

TIME: 2 HRS

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ſ	DATE&	18.11.24 & AN	REG					MAX	50
1	SESSION		NO					 MARKS	
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## 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. Explain about different types of Solvent extraction techniques. BT1, CO1, PO2
- 2. Explain about the Principle and classification of Chromatographic methods BT1, CO2,PO2
- 3. Demonstrate the principle, experimental set up and applications of Paper chromatography. **BT2**,

CO3, PO2

## PART-B

- 4. Demonstrate the principle, experimental set up and applications of TLC. BT2, CO3, PO2
- 5. Write about Columns and detectors used in HPLC BT1, CO3, PO1
- 6. Analyse the principle and applications of Adsorption chromatography. **BT2, CO4, PO4 SECTION-II**

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

4 X 5=20Marks

- 7. Explain factors affecting solvent extraction. BT1, CO1, PO1
- 8. Explain briefly about efficiency of a chromatographic column. BT1, CO2, PO4
- 9. Define Rf value and write its significance. BT1, CO3, PO1
- 10. Write about Stationary phases and Mobile phases used in HPLC. BT1, CO3, PO1
- 11. Compare and Contrast the NPC and RPC? BT2, CO4, PO3
- 12. Explain briefly about Resolution and capacity factor. BT1, CO2, PO1
- 13. Write about Columns and Column packing in Column chromatography. BT1, CO3,PO2.