

Sovarani Memorial College
Chemistry Practical Examination - 2021
Subject - Chemistry (Hons)
Paper - DSE - A - 4P (Analytical Methods in Chemistry)
Semester VI (H)

F.M - 30

Time - 2 hrs

Answer any 15 (Fifteen) questions
Each question carries 2 marks

1. Mention the principle of paper chromatography.
2. What is R_f ?
3. What are common developing reagents for paper chromatography?
4. How paper chromatography can be employed in quantitative measurements?
5. What are the substances most frequently used as coating materials in TLC?
6. What is the mechanism for the separation in TLC?
7. What is ion-exchange chromatography?
8. What are the applications of ion-exchange resin. Give three applications.
9. What is a factor on which the strength and exchange capacities of the ion exchange resin depend?
10. Give a formula of each of cation and anion exchange resin.
11. Compare TLC with PC
12. Mention one common resin used in ion exchange chromatography?

13. What is the application of ion-exchange resin?
14. How mixtures of metal ions can be separated on cation exchange resin column?
15. Give a reaction for cation exchange.
16. What are pH's for weak cation exchangers and weak anion exchangers?
17. What is the pH range of the strong ion exchange resin?
18. How can you assay NaCl by ion exchange chromatography?
19. Why TLC supercedes PC?

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