



QP CODE: 26019326



26019326

Reg No :

Name :

M.Sc DEGREE (CSS) EXAMINATION, MARCH 2026

Fourth Semester

M Sc ANALYTICAL CHEMISTRY

ELECTIVE - CH820401 - ANALYTICAL PROCEDURES

2019 Admission Onwards

798B2525

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. What are the different methods adopted for minimizing the errors in analytical data?
2. Explain the principle involved in successive extraction method.
3. Explain the analytical application of reagent Cupferron.
4. What is the cause of selectivity in EDTA titrations?
5. Explain the toxicity of benzene.
6. Describe the properties of antioxidants with example.
7. Describe the significances of forensic science.
8. Differentiate between plastic prints and latent prints.
9. What do you mean by literature databases?
10. What is meant by citation of an article?

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Explain Q-test and what is its significance.
12. Write a short note on least square method.





13. What are the precautions to be taken to handle poisonous and corrosive chemicals?
14. Write notes on reagents used for open vessel decomposition of inorganic analytical sample.
15. Describe the principle involved in the titrations in non-aqueous solutions.
16. Explain the analysis of trace elements Cadmium, Lead, Boron and copper.
17. Explain the types of fires and fire extinguishers.
18. Describe different types of research.

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

Weight 5 each.

19. (a) What is theory of visual use of metal indicator?
(b) Write notes on metal indicators- murexide and eriochrome black T.
20. Write a note on classification of pesticides.
21. Describe prevention of corrosion.
22. Explain, how flame photometry and DSC techniques detect food adulteration.

(2×5=10 weightage)

