

**VINAYAKA MISSION'S RESEARCH FOUNDATION
(DEEMED TO BE UNIVERSITY), SALEM**

**B.PHARM. DEGREE EXAMINATION – JULY 2019
First Semester**

PHARMACEUTICAL ANALYSIS I

Time : Three hours

Maximum: 75 marks

I. Write essays on any **TWO** questions: (2 x 10 = 20)

1. What are complexometric titrations? Explain its principle with suitable examples.
2. Explain the theory of polarography, dropping mercury electrode and its application in Pharmacy.
3. What is non-aqueous titration? Explain its principle with suitable example.

II. Write short answers on any **SEVEN** questions: (7 x 5 = 35)

4. Explain the various steps involved in gravimetric analysis.
5. Write the preparation and standardization of ceric ammonium sulphate.
6. Give the principle involved in modified Volhard's method.
7. What is cerimetry and mention about its advantages?
8. How do you minimize errors in pharmaceutical analysis?
9. Write a brief note on conductometric titration.
10. Explain the theoretical aspects and application of potentiometry.
11. Write a brief note on principle of redox titration.
12. Describe the source of impurities in medicinal agents.

III. Write short notes on : (10 x 2 = 20)

13. Define precision.
14. Note on Mohr's method.
15. Masking and demasking agent.
16. Post precipitation in gravimetry.
17. Diazotization – titration.
18. Rotating platinum electrode.
19. Application of redox titration.
20. Conductivity cell.
21. Metal-ion indicator.
22. Dichrometry.