

QP Code: 122006

Reg. No.....

**First Semester B. Pharm Degree Supplementary Examinations  
October 2023**

**Pharmaceutical Analysis - I  
(2017 Scheme)**

**Time: 3 Hours**

**Max. Marks: 75**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

**Essay**

**(2x10=20)**

1. What are the different methods of determination of chloride by precipitation reactions. Explain
2. Explain the principle of polarography. What are the different kinds of currents encountered using a typical polarogram.

**Short Notes**

**(7x5=35)**

3. Explain masking and demasking agents.
4. What are the different non- aqueous solvents. Explain.
5. Describe the construction and working of a glass electrode.
6. Explain with an example how a mixture of three metal ions can be individually determined.
7. Explain Ostwald's theory of indicators.
8. Discuss the use of dichromate salts in redox titrations.
9. Explain the assay of sodium benzoate by non-aqueous method.

**Answer Briefly**

**(10x2=20)**

10. How will you prepare a one molar solution (1M) of hydrochloric acid.
11. Distinguish determinate errors from indeterminate errors.
12. Distinguish iodometric titrations from iodimetric titrations.
13. What should be the characteristics of a substance to be used as a primary standard.
14. Comment on the stability of standard sodium thiosulphate solutions.
15. What do you understand by the term significant figures.
16. How is a solution of ceric ammonium sulphate standardized.
17. Comment on the stability of standard potassium permanganate solutions.
18. What are redox titrations. Give one example.
19. What are external indicators. Give one example.

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