

QP Code: 122006

Reg. No.....

**First Semester B. Pharm Degree Regular/Supplementary
Examinations September 2022
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. Define different methods of expressing concentration. Write methodology to prepare. • 100 ml of 1N sulphuric acid solution • 250 ml of 0.1N sulphuric acid solution.
2. Write principle involved in non-aqueous determination of weak acids and weak bases. Add a note on pM indicators.

Short Notes

(7x5=35)

3. Explain the principle involved in determination of magnesium sulphate.
4. Explain the method of minimizing errors in pharmaceutical analysis.
5. Write working principle of dropping mercury electrode.
6. With an example, explain the principle of iodometric titration.
7. Classify acid-base titrations. Write one indicator each for different types of acid-base titration.
8. Describe the principle involved in Fajan's method with appropriate example.
9. Write steps involved in estimation of a salt by gravimetric analysis.

Answer Briefly

(10x2=20)

10. Write any two reference electrodes used in potentiometric analysis.
11. Enumerate primary standards used in oxidation-reduction titrations.
12. Define conductance. How is it expressed.
13. Explain amphoteric solvent. Give example.
14. With an example, explain conductometric titration.
15. What are masking and demasking agents in complexometry.
16. What are significant figures.
17. Define reduction. Name any two reducing agents.
18. Primary standards.
19. Explain dichrometry.
