

PY-403(O&N)

B. Pharm. (Fourth Semester)

EXAMINATION, June, 2011

PHARMACEUTICAL ANALYSIS – I

[PY-403(O&N)]

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Time : Three Hours

Maximum Marks : 70

Note : Attempt any *five* questions. All questions carry equal marks. It is required to solve subparts of a question in continuation.

1. Discuss various analytical techniques employed in Pharmaceutical industries and add a note on significance of quantitative analysis in quality control. 14
2. Explain the neutralization curve for the following titrations : 7 each
 - (a) Strong acid vs Strong base
 - (b) Weak acid vs Strong base
3. (a) What are redox titrations ? How will you balance the redox reactions ? 5
 - (b) Give principle and procedure of permanganate titration. 9
4. What is argentometric titration ? Discuss the endpoint determination methods of precipitation titration. 14
5. Give the principles of gravimetric analysis. Discuss briefly the gravimetric analytical techniques. 14
6. What are the solvents used in non-aqueous titrations ? Discuss the non-aqueous titrations of weak acids and weak bases with suitable examples. 14
7. What is conductometry titration ? Discuss the principle and applications of conductometric titrations with suitable examples. 14
8. Write short notes on any *three* of the following : $4\frac{1}{2}$ each
 - (a) Karl-Fisher titration
 - (b) Principles of polarography
 - (c) Factors influencing the stability of metal complexes
 - (d) Iodometry titration

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