

[Time: 3 Hours]

[Max. Marks: 75]

Advanced Pharmaceutical Analysis**Q.P. CODE: 5112**

Your answers should be specific to the questions asked.

Draw neat, labeled diagrams wherever necessary.

LONG ESSAY (Answer any Three)**3 X 10 = 30 Marks**

1. Explain the theory of redox titrations and give the Nernst equation. Add a note on iodimetry and iodometry?
2. Explain the principle, procedure and applications of the following reagent
a) Paradimethyl-amino cinnamaldehyde (PDAC) b) 2,6-Dichloroquinone chlorimide?
3. Explain the principle and procedure involved in quantitative estimation of the following functional group a) Carboxyl group b) Ester group
4. Explain in detail Biological assay of Rabies vaccine.

SHORT ESSAY (Answer any Nine)**9 X 5 = 45 Marks**

5. Explain the principle and reaction for the assay of sodium benzoate.
6. How will you estimate quantitatively calcium?
7. Explain the principle and application of Bratton-Marshall reagent?
8. How will you carry out the biological test for Oxytocin?
9. Define and classify impurities in drug substances.
10. Explain in brief on stability studies?
11. Give short notes on Antivenom?
12. Explain the principle and procedure involved in quantitative estimation of Methoxyl functional group.
13. Define complexometric titrations and explain with an example?
14. Discuss brief account on 3, 5-Dinitro salicylic acid (DNSA).

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