



[Time: 3 Hours]

[Max. Marks: 100]

**ADVANCED PHARMACEUTICAL ANALYSIS**

**PAPER IV**

**(RS 2 & RS 3)**

**Q.P. CODE: 9294**

Your answers should be specific to the questions asked.  
Draw neat labeled diagrams wherever necessary. Answer all questions

**LONG ESSAY (Answer any TWO)**

**2 X 20 = 40 Marks**

1. What is microbiological assay? Explain in detail. Write a note on microbiological assay of any one Vitamin of Your choice.
2. What are Radiopharmaceuticals? Explain in detail. Add a detailed note on applications of radiopharmaceuticals in Medicine and Pharmacy.
3. Explain the principle and procedure involved in the biological assay of Rabies Vaccine.

**SHORT ESSAY (Answer any FIVE)**

**5 X 10 = 50 Marks**

4. Explain Differential Thermal Analysis (DTA) in detail.
5. Explain the applications of Mass spectrometry.
6. Write the methodology of Sterility testing
7. Explain the principle and procedure involved in the biological assay of Heparin sodium.
8. Write a note on Validation Parameters of Spectrophotometric Method.
9. Write a note on Production, Chemistry and Properties of Pyrogens.

**SHORT NOTES**

**2 X 5 = 10 Marks**

10. Explain briefly Radioimmunoassay (RIA)
11. Write a note on Biological Assay of Streptokinase.

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