



[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. Explain the principle and procedure for the evaluation of rabies antiserum and rabies vaccine
2. Explain the assay of any two radiopharmaceuticals
3. Explain the sterility testing of diclofenac sodium injection

**SHORT ESSAY (Answer any FIVE)**

**5 X 10 = 50 Marks**

4. What is pyrogen test? Explain
5. Define refractive index and viscosity. Explain its importance in pharmaceutical analysis
6. Write a note on the assay of Urokinase
7. Explain the microbiological assay of vitamin with a suitable example
8. Explain thermogravimetric curve for any one compound with required reactions
9. What is the importance of effectiveness of antimicrobial preservative? How is it tested

**SHORT NOTES**

**2 X 5 = 10 Marks**

10. How is plague vaccine analyzed? Explain
11. Explain ruggedness and robustness with reference to analytical method validation

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