[Time: 3 Hours] [Max. Marks: 100]

ADVANCED PHARMACEUTICAL ANALYSIS PAPER IV (RS2 & RS3)

Q.P. CODE: 9294

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

LONG ESSAY (Answer any TWO)

2 X 20 = 40 Marks

- Define and classify the various Thermoanalytical Methods of Analysis. 1.
- 2. Discuss the methodology involved in Microbiological assay of Vitamin B12 and Calcium pantothenate.
- 3. Explain the bioassay of (a) Pertusis Vaccine, (b) Diphtheria Antitoxin.

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

- Discuss the application of Enzyme Immunoassay. 4.
- 5. Explain briefly the various Analytical Method Validation Parameters.
- 6. Write the methodology involved in tests for effectiveness of Antimicrobial Preservatives.
- 7. Explain the bioassay of rabies vaccine.
- 8. Explain the principle and methodology involved in Pyrogen testing.
- 9. Explain WHO guidelines for analysis of crude drugs.

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- Instrumental methods of analysis
- Analysis of heavy metals

