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

LONG ESSAY (Answer any TWO)

- 1. Explain in detail how residual pesticides can be quantitated by mass spectrometry
- 2. Explain the principle & the methodology involved in the biological assay of a) Heparin sodium b) Rabies vaccine
- 3. Explain the methodology & instrumentation involved in the differential scanning calorimetric analysis. Give its important applications in pharmacy

SHORT ESSAY (Answer any FIVE)

- Give the importance of radiopharmaceuticals with suitable examples 4.
- 5. Explain the pyrogen test I.P
- 6. Explain clearly how a UV-VIS spectrophotometer can be validated
- 7. Give the importance of standard deviation (SD) & relative standard deviation (RSD)
- 8. Give the microbial assay of any vitamin you have studied
- 9. Explain how oxytocin is assayed biologically

SHORT NOTES

Parameters governing the performance of a UV-detector in HPLC 10.

www.firstPank*** 11. Importance of slit-width in UV-spectrophotometer 2 X 5 = 10 Marks

2 X 20 = 40 Marks

5 X 10 = 50 Marks

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