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Q.P. CODE: 9224

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. Discuss the planning desing and plant layout of a pharmaceutical industry
- 2. What are pyrogens? Explain their productions, chemistry and properties in detail. Add a note on official pyrogen tests and interpretation of data
- 3. Discuss on the calibration of instruments in detail

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

- 4. How do you find working reference and pharmacopoeical standards
- 5. Discuss the principle and procedure of the assay of Heparin sodium
- 6. Write notes on salvaging of returned goods and reprocessing
- 7. Add a note on water for injection
- 8. Discuss on microbial assays of vitamins
- 9. Standard operating procedure for operating pharmaceutical machinery

MMM. Filest Rox * * * * SHORT NOTES $2 \times 5 = 10 \text{ Marks}$

10. Sampling techniques

11. Vendor audit and warehouse audit

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