PAPER IV



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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)

2 X 20 = 40 Marks

 $5 \times 10 = 50 \text{ Marks}$ 

- 1. Discuss the planning design and plant layout of a pharmaceutical factory
- 2. Elaborate on the SOPs for operating pharmaceutical machinery
- 3. Discuss the microbial assay of the ß-lactam antibiotics

## SHORT ESSAY (Answer any FIVE)

- Discuss the principle and procedure of the assay of streptokinase 4.
- 5. Discuss the chemical methods of analysis of water for injection
- 6. How are volumetric glassware validated? Explain
- 7. Explain the assay procedure of gentamycin sulphate
- 8. How do you find working reference and pharmacopoeial standards
- 9. How are tests for preservative effectiveness carried out? Discuss

#### SHORT NOTES

- www.firstRank\*\*\* 10. Biological assay of diphtheria antitoxin
- Drug information profile development 11.

 $2 \times 5 = 10$  Marks