

Firstranker!s choice Rajiv Gandhi Wanii wani keyenf Health Seilenkeesom First Year M.Pharm Degree Examination - Nov 2011

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

FORMULATION PRODUCTION MANAGEMENT

PAPER IV

(Revised Scheme 2)

Q.P. CODE: 9254

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

- Discuss the role of pilot plant scale uptechniques for various pharmaceutical products.
- 2. Explain the ICH guidelines, with respect to stability testing of API and finished products
- Discuss various safety aspects including preventive system during pharmaceutical production.

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

- 4. Explain optimization technique for pharmaceutical formulation and processing.
- 5. Explain the importance of forecasting for pharmaceutical products.
- 6. State the procedure to manufacture any Biological product as per D and C act.
- Give the details of materials handling for various pharmaceutical products.
- 8. Give the steps of Effluent treatment procedure used in a pharmaceutical manufacturing unit.
- 9. Give the outline of production, planning and scheduling for pharmaceutical products.

SHORT NOTES 2 X 5 = 10 Marks

- Define validation explain different types of validation. Add a note on its importance
- Different layouts with respect to a pharmaceutical industry

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