

Rajiv Gandhiw Mriverskey of Health Sciences First Year M. Pharm Degree Examination - May 2013

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

BULK DRUG TECHNOLOGY

(RS 2 & RS 3)

Q.P. CODE: 9203

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 in detail the following methodology of drug production with examples.
 - a) Recombinant DNA method
 - b) Combinatorial chemistry
- 2. Discuss the plant design, layout and construction and probable effluent management in the production of phenobarbitone.
- 3. a) Discuss the Global scenario of pharmaceutical market with special reference to GATT and TRIPS agreement in Export and Import of drugs.

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

- 4. Mention the types of production License. Explain the procedure to obtain the license to start a pharmaceutical company.
- 5. Discuss the safe operating procedures of the chemical plant.
- 6. Explain the method of production of an Antibiotic by fermentation process.
- 7. Write the flow sheet and reaction sequence in the production of metaprolol.
- 8. Explain the process development and validation for the production of Diclofenac sodium.
- 9. Discuss the basic concept of Homeopathy formulations.

SHORT NOTES 2 X 5 = 10 Marks

- 10. Loan license.
- 11. Environmental Pollution control methods.

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