



[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. a) What are possible industrial hazards? How can they be controlled?
b) Explain the merits and demerits of multipurpose plant vs dedicated plant for bulk drugs with specific explain
2. Draw the flowchart, equipments used and process development of the following drugs
a) Phenobarbitone b) Phenytoin
3. What is combinatorial chemistry? Explain briefly with suitable examples and the importance of combinatorial chemistry in developing new drug molecule

SHORT ESSAY (Answer any FIVE)

5 X 10 = 50 Marks

4. Explain the flow diagram and reaction sequence for industrial production of dapsone
5. Explain the importance of R-DNA technology in producing new medicines
6. Distinguish between Ayurvedic, Siddha and Unani, what are the dissimilarities and similarities between them
7. Explain the important points to be followed in operating and industry safely
8. Explain in detail with all dates since independence about the growth of bulk drug industry with a graphical representation
9. Explain about green and clean chemistry and its approach towards environmental safety

SHORT NOTES

2 X 5 = 10 Marks

10. Explain the validation process of paracetamol
11. Explain about role of transgenic animals in drug development

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