



[Time: 3 Hours]

[Max. Marks: 100]

**ADVANCED INDUSTRIAL PHARMACY**

**(RS 2 & RS 3)**

**Q.P. CODE: 9302**

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 pilot plant scale up technique for parenteral liquids
2. Explain the points that need consideration in maintaining equipments and raw materials as per GMP
3. Discuss human resource development aspects of pharmaceutical unit

**SHORT ESSAY (Answer any FIVE)**

**5 X 10 = 50 Marks**

4. Write a note on job enlargement and enrichment
5. Write briefly on fire prevention and control measure
6. Write a note on retrospective validation
7. How will you maintain effective vendor development
8. State the various methods to improve solubility of drugs
9. Write a note on modern inventory management

**SHORT NOTES**

**2 X 5 = 10 Marks**

10. GATT
11. ISO 9000

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