

[LB 4259]

AUGUST 2012

Sub. Code: 4259

SECOND B.PHARM. EXAM

PAPER IV – PHARMACEUTICAL TECHNOLOGY

Q.P. Code : 564259

Time : Three hours

Maximum: 100 Marks

(180 Min) Answer ALL questions in the same order

I. Elaborate on:

Pages Time Marks
(Max.)(Max.)(Max.)

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|--|----|----|----|
| 1. Explain the principle and working procedure of Fractional distillation apparatus. Illustrate the fractional distillation of the mixture of components with the boiling point-composition diagram. | 19 | 33 | 20 |
| 2. Describe the mechanism and different modes of stress applied in size reduction? Write the principle, construction and working of Fluid energy mill. | 19 | 33 | 20 |

II. Write notes on:

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|--|---|---|---|
| 1. Measurement of rate of flow of fluids by venturi meter | 3 | 8 | 5 |
| 2. Theories of filtration. | 3 | 8 | 5 |
| 3. Short tube Evaporator | | 3 | 8 |
| 4. Physical Factors influencing selection of materials of pharmaceutical Plant Construction. | 3 | 8 | 5 |
| 5. Fluidised bed dryer | | 3 | 8 |
| 6. Mechanism of Crystallization. | 3 | 8 | 5 |
| 7. Planetary mixer | 3 | 8 | 5 |
| 8. Cyclone separator | 3 | 8 | 5 |

III. Short Answers:

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|--|---|---|---|
| 1. Primary Refrigerants with examples. | 1 | 5 | 2 |
| 2. Different mechanisms of Heat flow. | 1 | 5 | 2 |
| 3. Destructive distillation. | 1 | 5 | 2 |
| 4. Humidity Ratio. | 1 | 5 | 2 |
| 5. Corrosion. | 1 | 5 | 2 |
| 6. Electrostatic precipitation. | 1 | 5 | 2 |
| 7. Centrifugal effect. | 1 | 5 | 2 |
| 8. Bernoulli's theorem. | 1 | 5 | 2 |
| 9. Caking of crystals. | 1 | 5 | 2 |
| 10. Free moisture content. | 1 | 5 | 2 |
