

M. Pharm. Second Semester (Industrial Pharmacy) (New Course)  
**35346 : Scale Up and Technology Transfer : MIP 202 T**

P. Pages : 1

Time : Three Hours



**AU - 0761**

Max. Marks : 75

- Notes :
1. All question carry equal marks.
  2. Answer **any five** question.
  3. Illustrate your answer necessary with the help of neat sketches.
  4. Use of pen Blue/Black ink/refill only for writing the answer book.

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| 1. | Discuss in detail basic requirements, design facilities & equipments required for liquid oral & semisolid preparations.      | 15 |
| 2. | Explain in detail about process scale up for tablet & capsules & add a note on in process & finished product specifications. | 15 |
| 3. | Explain in detail equipment validation process for autoclave & fluidized bed drier.  | 15 |
| 4. | Discuss in detail process validation for liquid oral products & add a note on water process system.                          | 15 |
| 5. | i) Discuss in detail concept & importance of scale up technique.   | 8  |
|    | ii) Discuss problems encountered during technology transfer.   | 7  |
| 6. | Discuss in detail mechanical & electrical hazards that may occur in pharmaceutical industry. Explain methods to prevent it.  | 15 |
| 7. | Explain in detail industrial effluent testing & treatment & add a note on environmental control.                             | 15 |

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