

Code. No: 13149/PCI

**FACULTY OF PHARMACY****M. Pharmacy (Pharmaceutics ) I-Semester (PCI) (Main & Backlog) Examination,  
February 2019****Subject : Modern Pharmaceutics****Time: 3 Hrs****Max. Marks: 75****Note:** Answer any Five Questions. All Questions Carry Equal Marks.

1. (a) Write abt stability testing of pharmaceuticals 8  
(b) What is optimization? Explain various optimization techniques used for pharmaceutical formulations 7
2. (a) Define validation. What is the importance of validation? Write a note on different types of validation 8  
(b) Explain the terms DQ, IQ, OQ, & PQ 7
3. (a) Discuss abt Higuchi & Hixson-Crowell plots 10  
(b) Explain in brief abt Industrial and Personnel Relationship. 5
4. (a) Describe in detail abt physics of tablet compression 10  
(b) Write a note on Heckle plots 5
5. (a) Explain abt various parameters influencing dissolution 10  
(b) Write in brief abt Student's T test 5
6. (a) Explain abt the production planning and control with suitable examples 8  
(b) What are SMEDDS? Give a note on importance and formulation of SMEDDS 7
7. (a) Explain different drug excipient interactions with examples 7  
(b) Give an account on various approaches for inventory management and control 8
8. Write a note on  
(a) Similarity, dissimilarity factors  
(b) Total quality management  
(c) Factorial design

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