

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

1. (a) Explain the procedure of drug excipient compatibility studies 8
(b) Write a note on response surface methodology 7
2. (a) Write the approaches of process validation and mention their significance 8
(b) Describe different steps involved in equipment qualification 7
3. Explain different elements of Total Quality Management 15
4. (a) Explain the distribution of forces and consolidation during compaction 10
(b) Write a note on compaction profiles 5
5. (a) Explain abt vari dis parameters 7^{1/2}
(b) Write abt the Higuchi & poppas plots 7^{1/2}
6. (a) Discuss in detail abt ICH guidelines for validation and calibration of equipment 8
(b) Discuss management of materials and inventory control in industries 7
7. (a) Explain abt vari optimization techniques in formulation processing with suitable examples 8
(b) Explain physiological and formulation considerations for parenterals 7
8. Write in brief abt
(a) Heckel plots
(b) Solubility
(c) Good manufacturing practices
