

**FACULTY OF PHARMACY**

**M. Pharmacy (Pharmaceutics) I-Semester (PCI) (Main & Backlog) Examination,  
January 2020**

**Subject: Modern Pharmaceutics**

**Time: 3 Hrs**

**Max. Marks: 75**

**Note: Answer Any Five Questions. All Questions carry Equal Marks.**

1. a) Explain abt distribution of forces during tablet compression with diagrams and equations. 10M  
b) Write the applications of force displacement curves of tablet compression. 5M
2. Explain abt Heckell and peppas plots 15M
3. a) Write varis drug excipients interactions with necessary examples. 10M  
b) Describe the salient features of accelerated stability testing of solution dosage forms. 5M
4. Describe calibration and validation of equipment as per ICH and WHO guidelines. 15M
5. Explain the WHO good manufacturing practices. 15
6. Write the formulation considerations and evaluation of parenteral dosage forms. 15M
7. Explain abt Material management inventory control in pharmaceutical industry. 15M
8. a) Define factorial designs and write its applications in formulations. 5M  
b) Describe the methods of comparision of dissolution of two products. 10M

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