Code. No: 13321/PCI

FACULTY OF PHARMACY
**M. Pharmacy (Pharmaceutics) II-Semester (PCI) (Main) Examination,
August 2019**

Subject : Computer Aided Drug Delivery System

Time: 3 Hrs   Max. Marks: 75

Note: Answer any Five Questions. All Questions Carry Equal Marks.

1. Write role of computers in pharmaceutical research and development.

2. Write abt application of descriptive statistics in pharmaceutical research and Development.

3. (a) Discuss quality –by-Design (QbD) in pharmaceutical product development   8
   (b) Write a note on ICH Q8 guidelines for good quality product   7

4. What is active transport? Write abt following transporters
   (a) P-gp
   (b) BBB-Choline transporter

5. (a) What is the objective of optimization? Write optimization parameters for formulation development   10
   (b) Write application of computers in market analysis   5

6. (a) Write abt   *invitro* dissolution & *invitro-invivo* correlation.   10
   (b) Write a note on Biowaiver considerations   5

6. Write role of computers in clinical data collection and management for clinical development

8. Discuss abt artificial intelligence and robotics in pharmaceutical automation and write their application, advantages and disadvantages.

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