

FACULTY OF PHARMACY

**M. Pharmacy (Pharmaceutics) II-Semester (PCI) (Supply.) Examination,
January 2020**

Subject : Computer Aided Drug Delivery System

Time: 3 Hrs

Max. Marks: 75

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

1. Describe a brief history of computers in pharmaceutical research and development. Mention the time line of the development in early stages. 15
2. Write notes on 15
 1. Sensitivity analysis
 2. Optimal design
 3. Population modeling
3. (a) Write abt quality by design in pharmaceutical product development 8
(b) What do you mean by QTPP 7
4. Discuss abt the modeling techniques related to computational modeling of drug disposition with respect to ADMET 15
5. How the computer is used in optimizing the varis parameters in pharmaceutical product development
6. Describe in detail abt philosophy and ethics of computing in pharmaceutical research 15
7. What is computational fluid dynamics and how it is applicable to the pharmaceutical industry 15
8. Discuss abt the future of computers in pharmaceutical industry. What are the current challenges faced by pharmaceutical industry? What can be done to overcome these challenges? 15
