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Sub Code: MPH 203T

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M. PHARM.
(SEM II) THEORY EXAMINATION 2017-18
COMPUTER AIDED DRUG DELIVERY SYSTEM

Time: 3 Hours**Total Marks: 75****Note: 1.** Attempt all Sections. If require any missing data; then choose suitably.**SECTION A****1. Attempt all questions in brief. 10 x 2 = 20**

- a. What are the different levels of variables?
- b. Define discrete and continuous data?
- c. How Cadila System is used for simulation?
- d. Define Quality by Design.
- e. What do you understand by confidence regions?
- f. What do you understand by sensitivity analysis?
- g. Give the various points considered in computer ethics?
- h. What is Monte Carlo simulation?
- i. Write the advantages of artificial intelligence.
- j. What do you understand by BCRB?

SECTION B**2. Attempt any two parts of the following: 2 x 10 = 20**

- a. Write a detailed role of computers in pharmaceutical formulations.
- b. How computers are helpful for clinical data collection and management?
- c. What do you understand by emulsions? How computers are useful for development of emulsions by using simulation.

SECTION C**3. Attempt any five parts of the following: 5 x 7 = 35**

- a. Write a note on population modeling in pharmaceutical research and development.
- b. Write a detailed note on In-vitro dissolution and in-vitro-in vivo correlation.
- c. Give the details about ethics in computing with respect to pharmaceutical research.
- d. What is mechanistic modeling? What are the advantages of mechanistic modeling?
- e. Discuss the mechanism of drug absorption. How computer simulation is useful in drug absorption?
- f. Write a detailed note on artificial intelligence.
- g. Write a detailed note on biowaiver consideration.