

M. PHARM. (PHARMACEUTICS) (CBCS – 2019 COURSE) SEM – II : Winter-2021
SUBJECT : ADVANCED BIOPHARMACEUTICS & PHARMACOKINETICS

Day : Tuesday
Date : 30-11-2021

Time : 02:00 PM-05:00 PM
Max. Marks :75

W-20774-2021

N. B. :

- 1) **Q. No.1 and Q. No. 5** are **COMPULSORY**. Out of remaining questions are **ANY TWO** from each section.
- 2) Answer to both section should be written in **SEPARATE** answer books.
- 3) Figures to the **RIGHT** indicate **FULL** marks

SECTION - I

- Q.1** Explain active transport of drugs. **(08)**
- Q.2** Explain compendial methods of dissolution and alternative methods of dissolution testing. **(15)**
- Q.3** Explain one compartment model i.v bolus and i.v infusion. **(15)**
- Q.4** Write notes on **ANY TWO** of the following : **(15)**
- a) Basics of compartmental modelling
 - b) Dissolution profile comparisons
 - c) In vitro-in vivo correlation

SECTION - II

- Q.5** Explain cytochrome p-450 based drug interactions. **(07)**
- Q.6** Describe the experimental protocol and analysis of data from bioequivalence studies for conventional dosage form. **(15)**
- Q.7** Explain the various methods for determining absorption of drugs in-vitro, in-situ and in-vivo and their correlation with examples. **(15)**
- Q.8** Write notes on **ANY TWO** of the following : **(15)**
- a) Biopharmaceutical factors affecting drug bioavailability
 - b) Applications of pharmacokinetics in targeted drug system
 - c) Gene therapies

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