SUPPLEMENTARY
MASTER OF PHARMACY (M. PHARM.) (CBCS-2019 COURSE)
M.Pharm. Sem-II PHARMACEUTICS :SUMMER- 2022
SUBJECT : ADVANCED BIOPHARMACEUTICS & PHARMACOKINETICS

Day : Friday | Time : 10:00 AM-01:00 PM

Date : 16-09-2022 | **S-20774-2022** | Max. Marks : 75

N.B.:

1) Question **1** and **5 are** compulsory. Out of remaining questions answer any **TWO** from each section.
2) Figures to the **RIGHT** indicate **FULL** marks.
3) Answer to both sections should be written in **SEPARATE** answer books.

SECTION-I

Q.1 Explain the different methods for studying drug uptake. **(08)**

Q.2 Give an account of the compendial methods of dissolution testing. **(15)**

Q.3 Explain in detail the different mechanisms of drug transport. **(15)**

Q.4 Write notes on **ANY TWO** of the following: **(15)**

a) Blood brain barrier

b) pH- partition hypothesis

c) Dosage form related factors affecting drug absorption.

SECTION -II

Q.5 Explain the non-compartmental approach for obtaining the pharmacokinetic parameters. **(07)**

Q.6 Compute the pharmacokinetic parameters K_E, Ka, t_{max} and C_{max} following extravascular administration of drug that follows one compartment model. **(15)**

Q.7 What is absolute bioavailability and relative bioavailability? Give equations. Explain the pharmacokinetic and pharmacodynamics methods for measurement of bioavailability. **(15)**

Q.8 Write notes on **ANY TWO** of the following: **(15)**

a) Bioavailability testing of controlled release formulations

b) Physiological modelling

c) Clinical significance of drug – drug interactions

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