

Question Paper

Exam Date & Time: 07-May-2018 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

MANIPAL COLLEGE OF PHARMACEUTICAL SCIENCES END SEMESTER THEORY EXAMINATIONS- MAY 2018 PROGRAM: MPHARM SEMESTER 2 (PHARMACY PRACTICE)

DATE: 07/05/2018

TIME: 2:00 PM - 5:00 PM

Clinical Pharmacokinetics and Therapeutic Drug Monitoring [PPR-MPP203T]

Marks: 50

Duration: 180 mins.

a

Answer all the questions.

Answer the following (5 marks x 8 = 40 marks)

- 1) Enlist various method for assessing bioavailability and explain any one method in detail. (5)
- 2) Discuss conversion of Intravenous to oral dosing with examples. (5)
- 3) Discuss Induction of Drug Metabolizing Enzymes. (5)
- 4) Describe the approach of Bayesian theory with an example to explain this concept. (5)
- 5) Discuss hepatic drug clearance and extraction ratio. (5)
- 6) Enlist the indication for TDM for antiepileptic drugs and explain any two in detail. (5)
- 7) Discuss renal clearance ratio in detail and enlist various factors affecting the same. (5)
- 8) Discuss Maternal Pharmacokinetics and factors affecting placental drug transfer. (5)

b

Answer all the questions.

Answer the following with specific answers (2 marks x 5 = 10 marks)

- 9) Enlist the factors affecting drug distribution (2)
 - A)
 - B) Write the formulae for calculating loading dose. (2)

- C) Give reason why Individual PK is different from Population PK. (2)
- D) Give dilling and fried's formulae for child dosage calculation. (2)
- E) Enlist factors causing individual variability in drug response. (2)

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