Course Code: MPP203T

VINAYAKA MISSION'S RESEARCH FOUNDATION (DEEMED TO BE UNIVERSITY), SALEM

M.PHARM. DEGREE EXAMINATION – July 2019 Second Semester

BRANCH: PHARMACY PRACTICE

CLINICAL PHARMACOKINETICS AND THERAPEUTIC DRUG MONITORING

Time : Three hours

Maximum: 75 marks

(Draw neat labeled diagrams wherever necessary your answer should be specific to the questions asked)

SECTION –A

- I. Answer any **THREE** questions:
 - 1. Define clearance and write in detail about renal and non renal clearance
 - Write the indications and protocol for Therapeutic Drug Monitoring (TDM). Discuss the TDM of digoxin used in the cardiovascular disease.
 - 3. Discuss in detail about drug dosing in paediatrics.
 - 4. Define pharmacogenetics. Discuss in detail about genetic polymorphism in drug transport and drug targets.

SECTION – B

- II. Answer any **THREE** questions:
 - 5. Write a note on drug dosing in the pregnancy and lactation.
 - 6. Discuss in detail about pharmacokinetic drug interactions with examples.
 - 7. What is Non Linier Mixed Effects Modeling (NLMEM)? Write in detail about base model and model validation
 - 8. Write the types and general pharmacokinetics and pharmacodynamics issues of IV to Oral dosing conversion.

 $(3 \times 10 = 30)$

 $(3 \times 15 = 45)$