[LD 827] **OCTOBER 2013** **Sub. Code: 3827**

PHARM.D / POST BACCALAUREATE DEGREE EXAMINATIONS

FIFTH YEAR

PAPER III – CLINICAL PHARMACOKINETICS

AND PHARMACOTHERAPEUTIC DRUG MONITORING

Q.P. Code : 383827

Time: Three Hours **Maximum: 70 marks**

Answer ALL questions in the same order

I. Elaborate on: **(2 x 20 = 40)**

1. Write down the dosing of drugs in the elderly and pediatrics and obese patients with examples.
2. Explain Therapeutic drug monitoring.

   Write about indication and protocol for TDM.

   Add notes on TDM of drug used in cardiac and seizure disorders.

II. Write notes on: **(10 x 3 = 30)**

1. Write about shifting of Intravenous dose to Oral dose.
2. Dosage adjustment in Renal disease.
3. Pharmacokinetic drug interaction.
4. Analysis of population pharmacokinetic data.
5. Inhibition and induction of drug metabolism
6. Discuss the extracorporeal removal of drugs
7. What is genetic polymorphism? Write notes on P-450 Isoenzymes.
8. What is individualization of drug dosage regimen?
9. Bayesian theory of adaptive method
10. Measurement of Glomerular filtration rate and creatinine clearance

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[LE 827] **APRIL 2014** **Sub. Code: 3827**

PHARM. D/POST BACCALAUREATE DEGREE EXAMS
FIFTH YEAR
PAPER III – CLINICAL PHARMACOKINETICS &
PHARMACOTHERAPEUTIC DRUG MONITORING

Q.P. Code : 383827

Time : 3 hours **Maximum : 70 marks**

I. Elaborate on : **(2x20=40)**

1. a) Explain the dose adjustment in renal disease with respect to total body clearance and elimination rate constant?
   b) Write a note on dosing of drugs in hepatic disease?

2. a) Explain dosing with feedback procedure in population pharmacokinetics?
   b) Discuss in detail the methods adopted in the analysis of population pharmacokinetic data?

II. Write notes on : **(10x3=30)**

1. Write a note on indications for therapeutic drug monitoring
2. How will you calculate the drug dose for neonates, infants and children?
3. How will you determine renal dysfunction in patients?
4. Write a note on genetic polymorphism in drug metabolism?
5. Discuss about regional pharmacokinetics?
6. Explain the adverse reactions attributed to genetic differences
7. Differentiate Hemodialysis and Hemoperfusion?
8. How will you adjust the dose for uremic patients?
9. Discuss the importance of Bayesian theory?
10. Explain absorption based drug interactions with examples?

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