

[LE 827]

APRIL 2014

Sub. Code: 3827

DOCTOR OF PHARMACY (PHARM. D / POST BACCALAUREATE)**DEGREE EXAMINATION****FIFTH YEAR****PAPER III – CLINICAL PHARMACOKINETICS AND****PHARMACOTHERAPEUTIC DRUG MONITORING***Q.P. Code: 383827***Time: Three Hours****Maximum: 70 marks****Answer All questions****I. Elaborate on:****(2 x 20 = 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:**(10 x 3 = 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?
