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17. Physicochemical properties of the drug influencing its distribution.

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## QP CODE:304006(Old Scheme)

Third Year B.Pharm Degree Supplementary Examinations – July 2016

# PHARMACEUTICS - V (Biopharmaceutics and Pharmacokinetics) (2010 Scheme)

## Time: 3 Hours

- Answer all Questions.
- Write equations wherever necessary.

### Essay

- 1. What are the various methods for measurement of bioavailability. What is the importance of invitro-invivo correlation coefficient in bioequivalence studies
- 2. What is meant by Michaelis-Menten kinetics. What are the reason for this. Describe any two methods for measurement of Michaelis-Menten constant in one compartment open model I.V. bolus administration.
- 3. Describe the determination of various pharmacokinetics parameters in one compartment open model I.V. bolus administration.

### Short notes

- 4. Determination of Pharmacokinetic parameters using urinary excretion data
- 5. What are the primary objectives of phase I biotransformation reactions.
- 6. Design of single dose bioequivalence studies
- 7. Determination of over all elimination rate constant in one compartment open model continuous intravenous infusion.
- 8. Blood placental barrier and drug distribution.
- 9. Binding of drugs to human serum albumin.
- 10. Hepatic clearance
- 11. Dose adjustment in renal failure
- 12. Loading dose
- 13. Biopharmaceutical classification system
- 14. Significance of drug polymorphism in its absorption.
- 15.pH partition hypothesis
- 16. Active transport of drugs

(14x5=70)

# Total Marks: 100

(3x10=30)

Reg.No: .....