

Total No. of Questions - 7)

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Roll No. ...

MPY-201 (PCS)
M.Pharmacy II Semester
Examination, December 2016
Biopharmaceutics and Pharmacokinetics
(Advanced Pharmaceutics - I)

Time : Three Hours

Maximum Marks: 70

Note: Attempt any five questions. All questions carry equal marks.

1. a) Explain various factors affecting plasma concentration and toxicity.
b) Discuss dose calculation based on therapeutic window and therapeutic index.
2. Estimate pharmacokinetic parameters assuming one compartment kinetics when drug is given as IV infusion and it follows one compartment kinetics.
3. a) What is peeling technique? Estimate absorption rate constant assuming first order kinetics and given by oral route.
b) Give calculation of loading and maintenance dose.
- a) Discuss physiologic model with a suitable diagram.
b) Give importance, applications and limitations of MRT.

-201 (PCS)

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5. What is therapeutic window? Describe the various factors affecting plasma concentration.
6. Write in detail on volume of distribution and derive the equation indicating the relation between protein-drug binding and volume of distribution. Explain the various factors influencing the linearity in pharmacokinetics.
7. a) What do you understand by Chronopharmacokinetics; explain its importance.
b) Differentiate sigma-minus method and rate excretion method.

Write short note on:

- a) Hepatic clearance
- b) Methods for enhancing dissolution rate
- c) Compartment models

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