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Rajiv Gandhi University of Health Sciences, Karnataka IV Year B.Pharm Degree Examination – Sep 2012

Time: Three Hours

Max. Marks: 80 Marks

PHARMACOKINETICS & THERAPEUTIC DRUG MONITORING (Revised Scheme - 2)

Q.P. CODE: 1972

Your answers should be specific to the questions asked Draw neat labeled diagrams wherever necessary

LONG ESSAYS (Answer any Two)

- 1. What is an optimal dosage regimen? Explain the kinetics of multiple dosing of a drug administered orally and following one compartment kinetics
- 2. Discuss the pharmacokinetics of a drug exhibiting one compartment kinetics after extravascular dosing from blood data.
- 3. Explain the objectives and essentials of therapeutic drug monitoring

SHORT ESSAYS (Answer any Eight)

- 4. What are the various physicochemical properties that effect drug distribution. Explain
- 5. Explain the concept of loading dose with maintenance dose
- 6. Write briefly on methods used to enhance the bioavailability of drugs
- 7. Which important plasma drug level related parameters are used in bioavailability Studies? Explain
- 8. Explain triexponential disposition with a suitable blood level curve
- 9. Briefly give an account of the chromatographic methods used in TDM
- 10. Explain the kinetics of protein binding
- 11. Discuss dosing requirements in children
- 12. Determination of volume of distribution in one compatement kinetics and significance
- 13. Explain briefly renal and hepatic clearance of drugs

SHORT ANSWERS

- 14. Trapezoidal rule in the estimation of AUC
- 15. Advantages of compartmental modeling
- 16. Limitations of radioimmunoassay
- 17. Which methods are used in adjustment of dosage regimen in TDM
- 18. Objectives of bioavailability studies
- 19. Relationship between V_d and AUC
- 20. Markers used to determine liver function
- 21. Blood sampling times in TDM
- 22. Define intrinsic capacity clearance
- 23. Plasma drug level-time curve for constant rate I V infusion

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10 x 2 = 20 Marks

2 x 10 = 20 Marks

 $8 \times 5 = 40$ Marks



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