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Rajiv Gandhi University of Health Sciences, Karnataka

Fifth Year Pharma- D Post Baccalaureate Degree Examination – Feb/March 2011

Time: Three Hours

Max. Marks: 70 Marks

CLINICAL PHARMACOKINETICS & THERAPEUTIC DRUG MONITORING

Q.P. CODE: 2876

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

LONG ESSAYS (Answer any two)

- 1. Explain in detail Hemodialysis
- 2. Explain the various methods for estimating dosage regimens in uremic patients
- ³ What is population pharmacokinetic data? Explain in detail the methods adopted in analysis of such data

SHORT ESSAYS (Answer any six)

- 4. Explain the role of liver enzymes in drug interactions with examples
- 5. Explain the principle and method of dosage adjustment in geriatrics
- 6. Explain the role of P-glylcoprotein in bioavailability of drugs
- 7. Define and explain Bayesian theory.
- 8. Explain the TDM of Cyclosporin.
- 9. Define and explain the significance of Pharmacokinetic drug interactions with examples.
- 10. Explain the major considerations in TDM studies
- 11. Explain how Renal and hepatic diseases affect protein binding of drugs. How are these changes accounted for dose adjustment?

SHORT ANSWERS

- 12. What is inulin clearance? Explain
- 13. Explain the application of Nanograms
- 14. Enumerate the different methods of designing dosage regimens
- 15. Write the equation defining the relationship between dose and duration of activity for single iv bolus injection
- 16. Define genetic polymorphism.
- 17. Enumerate the factors affecting dailyzability of drugs
- 18. Explain the various liver function tests and their significance
- 19. What are the assumptions made when adjusting the dosage regimen based on creatinine clearance during renal failure
- 20. Write the significance of Pharmacokinetic-Pharmacodynamic correlation.
- 21. Calculate the creatinine clearance for a child (8 years, body length 122cm) whose serum creatinine value is 0.9 mg/dl.

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2 x 10 = 20 Marks

6 x 5 = 30 Marks

10 x 2 = 20 Marks



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