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2 x 10 = 20 Marks

 $6 \times 5 = 30$ Marks

10 x 2 = 20 Marks

Rajiv Gandhi University of Health Sciences, Karnataka

V Year Pharm-D (II Year Pharm D Post Baccalaureate) Degree Examination – NOV 2016

Time: Three Hours Max. Marks: 70 Marks CLINICAL PHARMACOKINETICS & THERAPEUTIC DRUG MONITORING (RS) O.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 the pharmacokinetics of drugs in obese patients and describe the dosage adjustment in these patients with necessary examples.
- 2. Define pharmacokinetic drug interactions. Explain the pharmacokinetic interactions of drugs with examples.
- 3. List out the indications, necessity and process involved in TDM process. Write a note on TDM of Digoxin

SHORT ESSAYS (Answer any six)

- 4. Define the role of nomograms and tabulations in designing dosage regimen?
- 5. Define polymorphism? Describe the genetic polymorphism in CYP 2D6 and CYP 2C9 enzymes
- 6. Discuss about the dosage adjustment in patients with liver failure.
- 7. Write a note on biliary excretion of drugs.
- 8. Describe the TDM of carbamazepine
- 9. Write a note on role of pharmacokineticist in TDM processes
- 10. Calculate the creatinine clearance for 30 year old female patient with serum creatinine value of 0.8mg/dl. The patient if 5ft 1 inch height and weighs 69kg
- 11. Mention the pharmacokinetic differences between geriatric and pediatric patients

SHORT ANSWERS

- 12. Write the significance of pharmacokinetic and pharmacodynamic correlation in drug therapy
- 13. What is clinical pharmacokinetics and explain its importance
- 14. Define hemodialysis. Give its significance.
- 15. Define allele an variant allele 🔨
- 16. Illustrate four pharmacokinetic interactions affecting the metabolism of drugs
- 17. Enumerate the mechanism of drug interactions between clopidogrel and aspirin
- 18. What is creatinine clearance? Give the formula with normal value.
- 19. Give the indications which necessitate TDM for lithium.
- 20. Mention hepatic biomarkers and write its normal values.
- 21. Define GFR. Write the formula to calculate GFR with normal value.
