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Rajiv Gandhi University of Health Sciences, Karnataka
IV Year B.Pharm Degree Examination – 24-Sep-2020

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)   **2 x 10 = 20 Marks**

1. Explain various physiological factors affecting drug absorption

2. What do you understand by TDM? What is the criteria for valid TDM? Discuss the organization of a TDM service

3. Discuss one compartment open model after IV bolus administration.

SHORT ESSAYS (Answer any Eight)   **8 x 5 = 40 Marks**

4. Give the schematic representation of two and three compartment model

5. Gastric emptying and its significance

6. Protein binding and its clinical significance

7. Methods of assessing bioavailability

8. Assay methods in TDM study

9. Concept of design of dosage regimen

10. Dosing of drugs in elderly

11. TDM of cyclosporine

12. Renal and hepatic clearance

13. Mono exponential disposition

SHORT ANSWERS   **10 x 2 = 20 Marks**

14. Cross over design in bioequivalence studies

15. Define organ clearance, renal clearance and hepatic clearance.

16. Biological half life and its significance

17. Apparent volume of distribution and its importance

18. Area under the curve

19. Need for TDM for Digoxin

20. First order rate

21. Give a diagrammatic representation of two compartment model for oral dosing.

22. Accumulation index

23. Relative and absolute Bioavailability

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