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JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD Pharm.D V Year Supplementary Examinations, October/November - 2019 CLINICAL PHARMACOKINETICS AND PHARMACOTHERAPEUTIC DRUG MONITORING

Time: 3hours Max.Marks:70 **Answer any five questions** All questions carry equal marks 1.a) What is clinical pharmacokinetics? Write its applications. b) How will you determine frequency of drug administration? [7+7]2.a) Why are the drugs administered in multiple doses? Explain with examples. b) Explain the dose adjustments in obese patients? Discuss in brief the difficulties faced. 3.a) Explain the pharmacokinetic drug interactions with suitable examples and mechanisms. b) With suitable examples explain inhibition and induction of drug metabolism and their significance in drug therapy. [7+7]Explain the term therapeutic drug monitoring? Describe different ways by which TDM is 4.a) achieved in individualized patients. Discuss in brief TDM in cardiovascular diseases with relavant reasons. b) [7+7]5.a) Explain the methods of adjusting the dose and dosage regimen in patients with renal disease. Explain the difficulties in dose adjustment in patients with hepatic disease. [7+7]b) Discuss the importance of population pharmacokinetics with suitable examples? 6.a) Write in brief about Bayesian theory and its applications. b) [7+7]

7.a) What is pharmacogenitics? Discuss about genetic polymorphism in drug metabolism.

b) Write the implications of pharmacogenetics in pharmacokinetics of drugs.

[7+7]

8. Write note on the following:

- a) Inhibition of biliary excretion
- b) Extracorporeal removal of drugs.

[7+7]

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