

Code No: 6201AB

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

M. Pharmacy I Semester Examinations, August-2017

PHARMACOKINETICS AND DRUG METABOLISM

(Pharmacology)

Time: 3 hours

Max.Marks:75

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A.

Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A**5 × 5 Marks = 25**

- 1.a) Write detailed note on percutaneous absorption of drugs. [5]
- b) Define apparent volume of distribution. Give its importance. [5]
- c) Write brief notes on non renal excretion of drugs. [5]
- d) Discuss inclusion and exclusion criteria for subjects in BA-BE studies. [5]
- e) What is human genome project? Explain [5]

PART - B**5 × 10 Marks = 50**

2. Discuss pH-partition hypothesis. Explain how it is useful in prediction of drug absorption. [10]
OR
3. Write about Wagner-nelson method. [10]
4. Explain mechanism of glucuronide conjugation. Give suitable examples. [10]
OR
5. Write notes on:
a) BBB b) placental barrier. [10]
6. Write short notes on
a) GFR and its determination, b) biological half life. [10]
OR
7. Discuss factors affecting renal excretion of drugs. [10]
8. Explain various study designs used in BA-BE studies. [10]
OR
9. Explain direct methods of assessment of bioavailability. [10]
10. Discuss reasons for inter-racial and inter individual variations in drug metabolism. Give example. [10]
OR
11. Describe the role of pharmacogenetics in modern therapeutics. [10]