## **School of Pharmaceutical Sciences**

## RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA Bhopal (M.P.) 462036

Time: 1.30 hrs Total Marks: 25

## April 2007 – I Sessional Examination M. Pharm (Pharmaceutics) II Semester **Biopharmaceutics MPY-201**

## **Question 1 is compulsory**

**Q.2** 

Q.1 The Cumulative amount excreted unchanged after intravenous administration of 100mg of a drug results are given in table –

Time t hr	Cumulative amount Au (mg)	
0.0	0.0	
0.5	8.45	
1.0	14.83	
1.5	18.65	
2.0	21.64	
2.51	23.76	
3.0	25.25	
3.5	26.31	
4.0	27.06	
5.0	27.96	
6.0	28.41	
7.0	28.63	
8.0	28.75	
∞ Estimate	28.85	
1) The half life of the drug.		
2) The overall elimination-rate constant K		
3) The rate constant for elimination of unchanged drug. And		
4) The cumulative amount of drug excreted unchanged at 3.5 hr		12.5
a) Give application and limitation of physiologic pharmacokinetic models.		12.5
b) What do you understand by mean absorption time and mean dissolution time.		

OR

Q.3 a) Compare and contrast excretion rate method and sigma - minus method.

b) Factors influencing drug absorption and bioavailability.