B PHARMACY FOURTH YEAR SECOND SEMESTER EXAMINATION 2019

SUBJECT: PHARMACEUTICS VIII

Time 3 hours

Full marks: 100

Group A

Answer at least TWO questions from each group:

1. (a) Define the term "Pharmacokinetics". Draw a plasma concentration vs. time and show on the curve and explain the following terms:

Onset of action, Cmax, therapeutic window, MEC.

- (b) Determine Ka by residual method. Why the method is called "peeling method"?
- (c) Establish time-concentration relationship in a capacity limited process equation.

10+4+2+4=20

- 2. (a) Define C_{ss} . Determine C_{ss} from (C_{∞}) min. Define loading dose. Give its importance. What is called accumulation factor? Deduce the accumulation factor from $(c_{\infty})_{min}$. Write its significances.
- (b) To maintain 3mg/ml blood level of a drug using a loading dose and a simultaneous use of iv infusion was administered to get Css 2.5 mg/ml blood level, calculate loading dose and rate of infusion, if KE $0.15h^{-1}$ and V_d is 16 L..

$$2+4+2+1+2+3+2+4=20$$

3. (a) Deduce Ka from Wagner-Nelson method. How is it different from Loo-Riegelman method?

- (b) What do you mean by compartmental model? Give its assumptions. Write its significances.
- (c) A drug (x_0 amount) is injected into blood and after time "t", drug has been distributed in liver, lungs and kidneys. Draw the compartmental model and develop the equation.

5+2+2+5+2+4=20

Full marks: 30/100

4th YEAR 2nd SEMESTER EXAMINATION, 2019

SUBJECT PHARMACEUTICS VIII GROUP – B

Time: Three hours

1.	(a) What do you understand by Hospital Pharmacy? Elaborate its function	tions. 4+6	
	(b) On the basis of the merits and limitations differentiate between prescription order		
	system and unit dose dispensing system.	10	
2.	(a) What do you mean by the term "Hospital Formulary System"? Explain the process		
	involved in the preparation of the Formulary.	4+6	
	(b) Elaborate the various sources of Drug information Services.	10	
,	(a) Denoth the main all (c) and (c) and (c)		
3.	(a) Describe the various objectives and functions of Pharmacy and The	*	
	Committee.	7+5	
	(b) Elaborate the role of Pharmacist in DIC. Why such a centre is esse	•	
	Write a note on Drug Information Bulletin.	3+2+2	