

B. PHARM FOURTH YEAR SECOND SEMESTER EXAMINATION 2018

Subject: PHARMACEUTICS VIII

Full marks: 100

TIME 3 hours

Answer any *five* questions taking atleast *one* from each group.

Group A

1. What do you mean by multi-dosing regimen? Find out the equation for determination of minimum concentration of drug following multi dosing regimen. Give its importance in prolonged drug therapy. Deduce the equation of steady state plasma concentration. Determine accumulation factor. 2+12+4+4=20

2. What do you mean by K_a ? What are the different methods to determine K_a ? Discuss the Residual method to determine K_a . Why it is called feathering? Define K_E . How should you determine K_E ? Define the following terms: Onset of action, duration of action, C_{max} , T_{max} , AUC. 2+2+6+2+1+2+5 =20

3. What do you mean by compartmental model? Why do we need the model? Give the schematic diagram and determine the equations when a dose of drug " X_0 " has been injected in blood and distributed in liver, kidneys and lungs and eliminated from liver and kidney. What do you mean by loading dose Write its importance. Determine the relationship between loading dose and maintenance dose. What is the concentration of drug after 10h after administration of loading dose of 100mg and simultaneous infusion of 20mg/h (drug has $t_{1/2}$ of 4h and V_d is 75L). 2+2+5+2+2+3+4 =20

4th YEAR 2nd SEMESTER EXAMINATION, 2018

**SUBJECT PHARMACEUTICS VIII
GROUP – B**

Full marks: 30/100

Time: Three hours

4. (a) What do you understand by Hospital Pharmacy? Elaborate its functions. 4+6
(b) On the basis of the merits and limitations differentiate between prescription order system and unit dose dispensing system. 10
5. (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

B. PHARMACY FOURTH YEAR SECOND SEMESTER, 2018

Subject: PHARMACEUTICS-VIII

Time: Three Hours

Full Marks: 100

GROUP-C

Use separate Answer scripts for each Group.

| Q. No | | Marks |
|-------|--|-------|
| Q6. | (a) Define and discuss the terms PCT; inventive step; compulsory licensing; mailbox applications; intellectual property and IPR. | 10 |
| | (b) Explain the different parts of a patent document and their significance. | 10 |
| Q7. | (a) Describe the process flow for obtaining a patent identifying the scope of opposition. | 10 |
| | (b) What are the salient features of the amendments made in 2005 of the Indian Patents Act? | 10 |