

AV – 2311

Final Year B. Pharm. (Annual Pattern) Examination

BIOPHARMACEUTICS AND PHARMACOKINETICS

Paper – IV – T – 3

(USC – 35024)

P. Pages : 2

Time : Three Hours]

[Max. Marks : 80

- Note :** (1) All questions carry equal marks.
(2) Answer any **Eight** questions.
(3) Use pen of **Blue/Black** ink/refill only for writing the answer book.

1. Define Bioavailability. Describe methods for determination of bioavailability using blood level. 10
2. Discuss plasma-protein and tissue protein binding in detail. 10
3. What is non – linear pharmacokinetics ? Describe non-linearity in ADME. 10
4. Discuss various physicochemical factors affecting biological performance of drugs. 10
5. (a) Describe pH – partition Hypothesis. 5
(b) Write a note on 'Osmotic pump'. 5
6. Discuss Design and Development of oral S. R. products. 10
7. Discuss various formulation factors affecting absorption of drugs. 10

AV-2311

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| 8. Discuss Gastro – intestinal physiology in detail. | 10 |
| 9. (a) Write note on Dissolution Process. | 5 |
| (b) Bioequivalence Study. | 5 |
| 10. Explain Urinary Excretion data for determination of Bioavailability. | 10 |

