

AV - 2490

Fifth Year Pharm. D. Examination

**CLINICAL PHARMACOKINETICS AND PHARMACOTHERAPEUTICS
DRUG MONITORING**

Paper - 5.3
(USC - 35135)

P. Pages : 2

Time : Three Hours]

[Max. Marks : 70

- Note :** (1) Answer any **Five** question from Q. No **Two** to **Nine**.
(2) Question No. **One** is compulsory.
(3) Due credit will be given to neatness and adequate dimensions.
(4) Diagrams and Chemical equations should be given wherever necessary.
(5) Illustrate your answer wherever necessary with the help of neat sketches.
(6) Use pen of **Blue/Black** ink/refill only for writing the answer book.

1. Explain the concept of therapeutic drug monitoring with indications and protocol. 15
2. Define population pharmacokinetics and explain Bayesian Theory in population pharmacokinetics. 11
3. Describe methods of measurement of glomerular filtration rate and creatinine clearance. 11
4. Define pharmacogenetics and describe genetic polymorphism in drug transport and drug targets ? 11
5. Write an account on determination of drug dosing in the paediatrics and obese patient. 11
6. Describe types of pharmacokinetic (absorption) drug interactions with suitable examples. 11

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7. Explain hemodialysis and peritoneal dialysis for removal of drugs. 11
8. Describe various parameters of clinical pharmacokinetics. 11
9. Explain therapeutic drug monitoring of drugs used in cardiovascular diseases. 11

