



1. How will you measure the bioavailability of drugs? Explain and give the importance of bioequivalence.
2. Discuss the one compartment and two compartment pharmacokinetic models.
3. Explain the mechanism of drug absorption.
4. Describe formulation and processing factors affecting drug dissolution.

SHORT ESSAY (Answer any Nine)

9 X 5 = 45 Marks

5. Explain pH-partition theory of drug absorption.
6. Write a note on drug interactions.
7. What are the factors which will affect the protein binding?
8. Write a note on in vitro-in vivo correlations.
9. Write about monoclonal antibodies.
10. What are the assumptions and limitations of a single compartment model?
11. How do you estimate absolute bioavailability and relative bioavailability?
12. Mention the methods available for bioavailability measurement and explain the in-vitro methods with their limitations.
13. Explain alternative methods of dissolution testing.
14. Write a note on vaccines.

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