

Your answers should be specific to the questions asked.  
Draw neat labeled diagrams wherever necessary. Answer all questions

**LONG ESSAY (Answer any TWO)****2 X 20 = 40 Marks**

1. Explain the significance of hematological tests in the diagnosis of diseases. Discuss thyroid function tests and their significance.
2. Explain the significance of patient data analysis. Discuss the management of adverse drug reaction.
3. Define "Bioavailability". Explain in detail the estimation and determinants of bioavailability.

**SHORT ESSAY (Answer any FIVE)****5 X 10 = 50 Marks**

4. Drug utilization evaluation and review.
5. Microbiological culture sensitivity tests.
6. Various phases of clinical trials.
7. Organ extraction and models of hepatic clearance.
8. Establishing a drug information center.
9. Calculation of loading and maintenance doses.

**SHORT NOTES****2 X 5 = 10 Marks**

10. Ward round participation.
11. Descriptive and differential statistics.

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