

SECOND SEMESTER EXAMINATION
DIPLOMA IN MEDICAL LABORATORY TECHNOLOGY
Paper Code: DMLT0202
Paper Name: General Pharmacology

Maximum Marks = 70

Maximum Time = 3 Hrs.

The question paper has seven questions. The candidate must attend only five of them. All the questions has equal marks

Question 1.	Discuss the basic principles of pharmacology, including the study of drug actions, interactions, and their effects on the body.	14 Marks
Question 2.	Analyze the mechanisms of drug absorption, distribution, metabolism, and excretion in the body.	14 Marks
Question 3.	Explain the principles of pharmacodynamics, including drug-receptor interactions, dose-response relationships, and therapeutic and toxic effects of drugs.	14 Marks
Question 4.	Discuss the principles of pharmacokinetics, including drug clearance, half-life, and factors influencing drug concentrations in the body.	14 Marks
Question 5.	Analyze the principles and methods of drug administration, including oral, parenteral, and topical routes, and the factors influencing drug bioavailability.	14 Marks
Question 6.	Discuss the principles and techniques of drug safety and adverse drug reactions, including drug allergies, drug-drug interactions, and monitoring for drug toxicity.	14 Marks
Question 7.	Analyze the emerging trends in pharmacology, such as personalized medicine, pharmacogenomics, and the development of targeted therapies, and their impact on drug development and patient care.	14 Marks