GALGOTIAS UNIVERSITY

ADMISSION NUMBER

School of Biomedical Science

Master of Science in Medical Biotechnology
Semester End Examination - Jun 2024

Duration : 180 Minutes
Max Marks : 100

Sem II - Q1PP205T - MBAMBT2007 - Pharmacogenomics

General Instructions
Answer to the specific question asked
Draw neat, labelled diagrams wherever necessary
Approved data hand books are allowed subject to verification by the Invigilator

1)	Define the Downregulation of gene	K1(2)
2)	Explain the pro-drug pharmacogenomics	K2(4)
3)	Explain, how pharmacogenomics can help in disease risk stratification	K2(6)
4)	Illustrate the applications of DNA Biochip	K3(9)
5)	Illustrate the New Paradigm Shift in Treatment due to PM	K3(9)
6)	Examine the steps for DNA Sequencing and correlate its application with personalized medicine.	K5(10)
7)	Analyze the pattern of reactions of Active Drug and Pro-drug for poor metabolizer, intermediate metabolizer, extensive metabolizer and ultrarapid metabolizer	K4(12)
8)	Examine the Single Nucleotide Polymorphism (SNP). Discuss its importance in varied Drug Response.	K5(15)
9)	Examine the mechanism of Uridine diphosphate glucuronosyltransferases (UGTs) and Sulfotransferases (SULTs)	K5(15)
10)	Discuss the Pharmacogenomics of cardiovascular system	K6(18)