GALGOTIAS UNIVERSITY

ADMISSION NUMBER

School of Biomedical Science

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

Duration : 180 Minutes
Max Marks : 100

Sem IV - Q1UG405T - Bioinformatics

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)	Describe the process of pairwise sequence alignment?	K1(2)
2)	Explain central dogma of molecular biology.	K2(4)
3)	Write down the names of primary and secondary databases.	K2(6)
4)	Illustrate protein sequence databses.	K3(9)
5)	Illustrate the steps involved in he clinical trials.	K3(9)
6)	Discuss how protein structure determination can be applied in drug discovery.	K5(10)
7)	Analyze the different methodology used for the protein three dimensional structure validation.	K4(12)
8)	Examine the importance of protein sequence and structure databases in molecular biology?	K5(15)
9)	Examine the different softwares/tools used in the drug discovery.	K5(15)
10)	Elaborate the role of bioinformatics in metabolic pathways, discussing how computational methods aid in pathway reconstruction, simulation, and analysis?	K6(18)