

**School of Biomedical Science****Bachelor of Science in Medical Biotechnology  
Semester End Examination - Jul 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*

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|-----|--|--------|
| 1)  | Define Isoelectric value of the amino acids.                           | K1(2)  |
| 2)  | Explain Primary databases?   | K2(4)  |
| 3)  | Explain Secondary databases?   | K2(6)  |
| 4)  | Illustrate the application of the molecular docking.                   | K3(9)  |
| 5)  | Illustrate the working principle of the ERRAT server.                  | K3(9)  |
| 6)  | Examine biological databases use for nucleic acid?                     | K5(10) |
| 7)  | Analyze the application of multiple sequence alignment.                | K4(12) |
| 8)  | Examine the application of the computers in the field of lifesciences. | K5(15) |
| 9)  | List four levels of protein structure.                                 | K5(15) |
| 10) | Discuss the types of biological databses.                              | K6(18) |