

**School of Medical and Allied Sciences****B.Sc Medical Lab Technology  
Semester End Examination - Jun 2024****Duration : 180 Minutes  
Max Marks : 100****Sem IV - L1UD403T - BMLS4003 - Analytical Clinical Biochemistry***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 gel electrophoresis and explain its principle?                              | K1(2)  |
| 2)  | Demonstrate principle of electrophoresis?  | K2(4)  |
| 3)  | Summarize a diagram of electrophoresis chamber with labelling?                     | K2(6)  |
| 4)  | Organize how would you separate serum proteins by slide gel electrophoresis?       | K3(9)  |
| 5)  | Organize How would you explain the complete working of CRISPR?                     | K3(9)  |
| 6)  | Justify principle and applications of atomic absorption spectroscopy.              | K5(10) |
| 7)  | Categorize the differences between agarose and polyacrylamide gel electrophoresis? | K4(12) |
| 8)  | Evaluate Ion exchange chromatography technique?                                    | K5(15) |
| 9)  | Evaluate on cation exchange chromatography technique?.                             | K5(15) |
| 10) | Design a system on operating procedure and applications of Spectrophotometer.      | K6(18) |