

**School of Medical and Allied Sciences**

**B.Sc Medical Lab Technology**  
**Semester End Examination - Aug 2024**

**Duration : 180 Minutes**  
**Max Marks : 100**

**Sem VI - BMLS6005 - Research Methodology and Biostatistics***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 concept of biostatistics and its role in analyzing healthcare data. K1(2)
- 2) Demonstrate the process of summarizing data collected through sampling methods. K2(4)
- 3) Summarize the importance of biostatistics in evidence-based decision-making. K2(6)
- 4) Organize the steps involved in understanding and analyzing data in biostatistics. K3(9)
- 5) Organize the steps involved in developing a research proposal that integrates patient information and diagnostic approaches. K3(9)
- 6) Justify the importance of engaging patients' information and employing diagnostic approaches in research proposals. K5(10)
- 7) Categorize different types of probability distributions based on their properties and applications. K4(12)
- 8) Evaluate the effectiveness of ethical committees in ensuring the ethical conduct of research. K5(15)
- 9) Evaluate the reliability and accuracy of software for plagiarism detection in academic research. K5(15)
- 10) Design a system for integrating ethical principles into research design and data collection methods. K6(18)