

**School of Medical and Allied Sciences****B.Sc Medical Lab Technology  
Semester End Examination - Jun 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 research design and its significance in conducting ethical research. K1(2)
- 2) Demonstrate the use of software for paper formatting like LaTeX/MS Office in creating professional-looking documents. K2(4)
- 3) Summarize the key concepts related to probability distributions and their significance in statistical analysis. K2(6)
- 4) Organize the steps involved in constructing a study, including defining the population and selecting a suitable sample. K3(9)
- 5) Organize the steps involved in using management software like Zotero/Mendeley effectively. K3(9)
- 6) Justify the importance of ensuring normality and other assumptions in statistical analysis. K5(10)
- 7) Categorize the various functions and features of management software and software for paper formatting. K4(12)
- 8) Evaluate the effectiveness of different research methods in achieving research objectives. K5(15)
- 9) Evaluate the ethical implications of data collection methods used in biostatistics. K5(15)
- 10) Design a system for implementing research methods to identify and address research problems. K6(18)