

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

School of Biomedical Science

Master of Science in Forensic Science

Mid Term Examination - May 2024

Duration : 90 Minutes

Max Marks : 50

Sem II - Q1PR201T - Research MethodologyGeneral 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) Explain the importance of a well-defined research question in the research process. K2 (2)
- 2) Define synopsis and its components. K1 (3)
- 3) Explain the process of data collection in research, focusing on both qualitative and quantitative approaches. K2 (4)
- 4) Explain the concept of research design in detail. Discuss the various types of research designs commonly used in sciences and explain when each type is most appropriate to use. K2 (6)
- 5) Illustrate the key differences in terms of data types, research questions, analysis techniques, and interpretation of findings. K3 (6)
- 6) Illustrate the various methods of data collection available to researchers and the factors that influence the choice of data collection method. K3 (9)
- 7) Analyze the role of literature review in identifying research problems. K4 (8)
- 8) Make an analysis on the role of sample size determination in research. What factors should researchers consider when determining an appropriate sample size for their study? K4 (12)

OR

Analyze the concept of probability in research and its significance in statistical analysis. K4 (12)