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**School of Biological and Life sciences**

Master of Science in Biochemistry

Mid Term Examination - May 2024

Duration : 90 Minutes

Max Marks : 50

**Sem II - P1PT204T - Research Methodology**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) Why is it essential to adhere to established procedures when collecting and analyzing data? K2 (2)
- 2) Describe the four different scales of measurements K1 (3)
- 3) Why is it necessary to ensure randomness in sampling procedures? K2 (4)
- 4) Define incidence and prevalence in epidemiological studies. Explain how these measures differ and provide examples to illustrate their distinctions. K2 (6)
- 5) Given a research question, how would you select an appropriate research design? K3 (6)
- 6) Explain the importance of data collection in the research process. Discuss the different methods of data collection used in research studies, providing examples of when each method would be appropriate. K3 (9)
- 7) Compare and contrast different research designs in terms of their strengths and weaknesses. K4 (8)
- 8) Describe the concept of qualitative data and provide examples of situations where qualitative data might be collected. K4 (12)

**OR**

Explain the distinction between nominal, ordinal, interval, and ratio data. Provide examples of each type of data. K4 (12)