

Name of Student: Aditya Jindal Roll No.: 210106004

Class, Year & Semester: L1, 4th Year, Semester 7

Department: BSBE Date: 19/09/24

Mid Semester Examination

Course No. BT623 Course Name. Research Methodology

1. Discuss how exploratory, descriptive, diagnostic, and hypothesis-testing studies differ in their approaches and goals? (5 Marks)
2. Draw a list of the main types of research methods commonly used in scientific investigations, categorized by their nature and specific methodologies. (5 Marks)
3. What are the various approaches for identifying and formulating a research problem, and how does each approach help in developing a well-defined and relevant research question? (6 Marks)
4. Explain the key characteristics of a well-formulated research question and describe how these characteristics contribute to the question's effectiveness and impact in guiding research. (6 Marks)
5. Describe the assumptions and methodology involved in performing a χ^2 test. (5 Marks)
6. Write the details of two books you have consulted for this course or two books recommended in the syllabus. Write 1. Name of Book Title, 2. Name of Author(s), and 3. Name of Publisher. (1.5 X 2 = 3 Marks, **100% Negative Marks for wrong Answers**)

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