

**TILAK MAHARASHTRA VIDYAPEETH, PUNE**  
**MASTER OF SCIENCE (M.SC) IN COMPUTER APPLICATIONS**  
**EXAMINATION: DECEMBER -2022**  
**SEMESTER - III**  
**Sub: Research Methodology (MSC -306 -19)**

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Date : 19/12/2022

Total Marks : 60

Time: 10.00 am to 12.30 pm

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**Instruction:**

1. All questions are compulsory unless and otherwise stated.
  2. Bold figures to the right of every question are the maximum marks for that question.
  3. Candidates are advised to attempt questions in order.
  4. Answers written illegibly are likely to be marked zero.
  5. Use of scientific calculators, Log tables, Mollier Charts is allowed.
  6. Draw neat and labelled diagram wherever necessary.
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**Q. 1. Answer the following in 2-3 lines. (Any 5) (10)**

1. Define Primary data.
2. What is a 'Sample'?
3. Define Research Methodology.
4. Explain Likert scale
5. What is a questionnaire?
6. What is descriptive research?
7. Define Problem formulation

**Q. 2. Answer the following in short. (Any 4) (20)**

1. Types of questions
2. Essential qualities of good report
3. Steps in Analysis.
4. Quantitative research
5. Research design
6. Merits and limitations of sampling

**Q. 3. Answer the following in detail. (Any 3) (30)**

1. Explain the Research Process in detail.
  2. Explain methods of data collection.
  3. Explain the technique involved in defining a problem  
What is hypothesis? What are the types of Hypotheses? What are the sources of
  4. hypothesis
  5. Define sampling? Discuss the Techniques of sampling.
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