

SL NO of QP:10352

Unique paper code: 6203450019

Name of Paper: Research Methodology

Name of the Course: B.Voc Software Development

Semester: 4

Duration: 3 Hours

Maximum Marks: 90

Instructions for Candidates:

- Write your Roll No. on the top immediately on receipt of question paper.
- The paper has two sections. Section A is compulsory. Each question is of 5 marks.
- Attempt any four questions from Section B. Each question is of 15 marks.

Section A

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|---|----|--|---|
| 1 | a) | Define research and state its significance. | 5 |
| | b) | Distinguish between basic research and applied research. | 5 |
| | c) | What is a literature review? State its role in identifying a research problem. | 5 |
| | d) | Define descriptive statistics and name any two measures of central tendency. | 5 |
| | e) | List and explain the essential elements of a research paper. | 5 |
| | f) | What is plagiarism? Mention any two plagiarism detection methods or tools. | 5 |

Section B

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|---|----|---|---|
| 2 | a) | Explain the characteristics and requirements of good research. | 7 |
| | b) | Describe inductive and deductive approaches to research. | 8 |
| 3 | a) | Explain different types of research based on objectives and methods. | 7 |
| | b) | Describe the major steps involved in the research process. | 8 |
| 4 | a) | Explain the criteria for selecting a research problem. | 7 |
| | b) | Describe the sources of research literature and the concept of state of the art.. | 8 |
| 5 | a) | Explain data pre-processing techniques used in data analysis. | 7 |
| | b) | Describe measures of variability with suitable examples. | 8 |
| 6 | a) | Explain methods of data analysis and interpretation. | 7 |
| | b) | Describe how research findings are presented and conclusions are drawn. | 8 |
| 7 | a) | Explain ethical issues involved in conducting research. | 7 |
| | b) | Describe scientific fraud and research misconduct. | 8 |