

**SEMESTER EXAMINATION-2021**  
**CLASS -MCA V<sup>TH</sup> SEMESTER      SUBJECT: COMPUTER SCIENCE**  
**PAPER CODE: MCA -E514**  
**PAPER TITLE: Research Methodology and Tools**

**Time: 3 hours**

**Max. Marks: 70**

**Min. Pass: 40%**

**Note:** Question Paper is divided into two sections: **A and B**. Attempt both the sections as per given instructions.

**SECTION-A (SHORT ANSWER TYPE QUESTIONS)**

**Instructions:** Answer any five questions in about 150 words      (5 X 6 = 30 Marks)  
each. Each question carries six marks.

Question-1: Define the Research? What are the major objectives to do research?

Question-2: Why we need to do research design in Research methodology.

Question-3: How research methods apply in computer science?

Question-4: How to propose research project in the area of computer science?

Question-5: What is the difference between literature survey and information gathering?

Question-6: Define the scientific conduct and misconduct in Research.

Question-7: How to write and publish research paper?

Question-8: Why do research ethics matter?

Question-9: What are the major issues in data protection in research?

Question-10: Explain the term Plagiarism in research ethics.

## SECTION-B (LONG ANSWER TYPE QUESTIONS)

**Instructions:** Answer any FOUR questions in detail. Each question carries 10 marks. (4 X 10 = 40 Marks)

Question-11: What is Literature survey? How Bibliography differs from literature references.

Question-12: Why we need to do research design? Explain the different research methods for software engineering.

Question-13: Why we need to do research through Open Access publications. Explain the different open access tools in research.

Question-14: Define the project conduct and misconduct in Research?

Question-15: How Research, society and ethics interrelated in research methods?

Question-16: What do you mean by measured-based research methods in computer science?

Question-17: What do you mean by the Web online tool "Google Scholar".

Question-18: Explain the following terms-

- Time management
- Risk management

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