

Department of Computer Science & IT
University of Malakand

Name of Examination	Mid Term Online Examination, Spring 2021 (MPhil-PhD)
Subject Name	Research Methods in Computer Science, CS-821
Course Instructor	Dr Siffat Ullah Khan
Total Marks	30
Date	9 th June, 2021
Time Allowed	(2+1/2) hours



Student's Name:	_____
Enrollment No.:	_____
Signature:	_____
Dated:	_____
Marks Obtained:	_____

Time Allowed: (2+1/2) hours

Marks: 30

Note: Attempt any five questions from the following. All Questions carry equal marks.

- Q1. Define the following terms (Marks: 6)
- i. Multi-vocal Literature Review (MLR)
 - ii. Systematic Mapping Study (SMS)
 - iii. Tertiary Review
 - iv. Verification and Validation
 - v. Sensitivity Analysis
 - vi. Publication bias
- Q2. What are the different aspects of Research from ethical point of view? (Marks: 6)
- Q3. List the possible Questions to be considered in the implementation and Design of an experimental research involving human participants. (Marks: 6)
- Q4. What is meant by Research Design? Briefly explain with suitable examples, Qualitative Research Design and Quantitative Research Design. Do we have any other type of Research Design apart from these aforementioned research designs? (Marks: 6)
- Q5. Write a comparative analysis of Ordinary Literature Review and Systematic Literature Review. (Marks: 6)
- Q6. What is SLR protocol? Explain the various components to be considered while designing/developing SLR protocol. (Marks: 6)
- Q7. What is meant by scientific writing? What points need to be considered while writing a research paper. (Marks: 6)

Note: Email your paper as single pdf file to: siffatullah@uom.edu.pk, before the given ending time.