

Pre-University Examination Questions

paper collection



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Pokhara University
Everest Engineering College
Final Internal Assessment
Fall-2025

Level: Bachelor

Year : 2025

Program : BECMP(4th Sem)

Full Marks: 100

Section : A

Pass Marks: 45

Course: Research Fundamentals

Time : 3hrs.

Attempt all the questions.

- | | |
|--|---|
| 1. <i>3a)</i> Give one example of Applied Research? Why is it important for everyday life? | 8 |
| 2. <i>3b)</i> What is a research question? Why is it important ? | 7 |
| 2. <i>3a)</i> How can a researcher identify a research gap during the process of conducting a study? | 8 |
| 3. <i>3b)</i> What is Plagiarism? Discuss the importance of plagiarism-free research. | 7 |
| 3. <i>3a)</i> a) In which situation a questionnaire survey is important?
What are the various formats of questions that can be asked in questionnaire survey? | 8 |
| 3. <i>3b)</i> How design and creation-based research is carried out?
What is the importance of the evaluation of system? | 7 |
| 4. <i>3a)</i> What are different types of used in quantitative research ?
Explain with Example. | 8 |
| 4. <i>3b)</i> What is unstructured data? What are the steps in text-based data analysis? | 7 |

5. 3a) Why is data visualization crucial in quantitative research? 8
Describe four different techniques used for visualizing data.
- 3 b) Explain the rights of people directly involved in research. 7
Why is it important to obtain informed consent from participants?
- 6 3a) Give the reason why the proposal is written? 7
3 b) Explain the need of research report. List out components 8
of a research report.

Write short notes on: (Any Two)

$2 \times 5 = 10$

- 3 a) Imperial Research
3 b) Annotated bibliography
c) Interview based data generation
d) Hypothesis

Lumbini Engineering, Management & Science College

Internal Assessment - I

Level: Bachelor

Year: 2025

Program: BE (Computer - 4th)

Full Marks: 100

Course: Research Fundamental

Time: 3 Hrs.

*Candidates are required to give their answers in their own words as far as practicable.
The figures in the margin indicate full marks.*

Attempt all the questions.

- Q. 1 a) Define and explain the term "Research". Explain its importance and objectives. (7)
b) What are the different types of research? Explain each in detail. (8)
- Q. 2 a) Explain the 6 P's of research in detail. (7)
b) What are the differences between a Project report and a Research report? (8)
- Q. 3 a) What is a literature review? Explain the effective literature studies approach for the research problem. (8)
b) Explain the Research process with a suitable diagram. (7)
- Q. 4 a) Explain the essentials that are to be considered by a researcher while formulating Research Problem. (7)
b) What is a Research Problem? Explain Components of Research Problem. (8)
- Q. 5 a) What is a Questionnaire? Explain the process of constructing a questionnaire. (8)
b) What are the ethical issues concerning the research participants of a research activity? Explain. (7)
- Q. 6 a) What do you mean by plagiarism? Explain different types of plagiarism. (8)
b) Explain how quantitative researches differ from qualitative research. (7)
- Q. 7. Write short notes (Any Two) (2x5=10)
a) Ethnographic research and its types
b) Rights of an ethical researcher
c) Action research

GANDAKI COLLEGE OF ENGINEERING AND SCIENCE

Level: Bachelor Semester: Spring Year : 2025
Programme: BE CE & SE IV Full Marks: 100
Course: Research Fundamentals Pass Marks: 45
Time : 3hrs.

The figures in the margin indicate full marks

Attempt all the questions.

1. a) What are the types of Research? Explain each with their characteristics and applications. 8

- b) What are the 6 P's of the Research? Explain in brief. 7

2. a) What is the role of Literature Review? How do you organize the literature review? Explain. 8

- b) What do you mean by research question? Why is it crucial for the research? 7

OR

A bank wants to conduct research to evaluate the user experience of its mobile application. Suggest two suitable research strategies for this context and explain in brief..

3. a) Define Plagiarism in the context of academic research and discuss its consequences. 8

- b) What is Quantitative Research? What are the various data analysis techniques for Quantitative Research? 7

OR

What do you mean by the conceptual framework of a research process model? Discuss briefly about data generation methods.

4. a) What are the responsibilities of Ethical researcher? 7

- b) What do you mean by participants? Explain the right of the participants. 8

5. a) Why is Research Proposal needed? Explain the components of the methodology in Research Proposal. 8
- b) How does a well-written proposal contribute to the success of a research project? Explain in detail. 7
6. a) Why do we need Research Report? How Research Findings are presented in Research Report? Explain. 8
- b) What information should be included while writing an Abstract of a research paper? Illustrate the way of writing citations and references in IEEE style with examples. 7
- 7 Write short notes on any two: 5x2
- a) Research Objective
 - b) Action Research
 - c) Ethnography

Date:	2082/04/06	Full Marks	70
Level	BE	Time	
Programme	BCE		
Semester	IV	2 hrs	

Subject: - Research Fundamentals

- ✓ Candidates are required to give their answers in their own words as far as practicable.
- ✓ Attempt any five questions with short notes mandatory.
- ✓ The figures in the margin indicate Full Marks.
- ✓ Assume suitable data if necessary.

1. a) Define research and explain its key characteristics. Discuss how research differs from ordinary information gathering. (8)
 Explain the importance of research ethics with two examples of ethical violations in academic research. (7)
2. a) Describe the essential components of a research proposal. Why is the "Problem Statement" considered the backbone of a proposal? (8)
 b) Compare and contrast qualitative and quantitative research methods. Provide one example where each method would be most appropriate. (7)
3. a) What is a research design? Explain the key elements that constitute a robust research design. (8)
 b) What are the 6P's of research? Explain in brief. (7)
4. a) Discuss the importance of formulating clear research objectives. How do they guide the research process? (7)
 b) Explain the purpose and significance of a literature review in research. What are the key steps involved in conducting a comprehensive literature review? (8)
5. a) Explain the importance of data analysis in research. Briefly describe any two data analysis techniques. (8)
 b) Describe the primary methods of data collection in research. Discuss the advantages and disadvantages of any two methods. (7)
6. a) Compare exploratory, descriptive and experimental research designs. Provide examples where each would be most appropriate. (8)
 b) Why is proper citation and referencing important in academic writing? Discuss any four commonly used citation styles. (7)
7. Write short notes on: (any two) [5*2=10]
 - a) Hypothesis in Research
 - b) Plagiarism
 - c) Primary vs Secondary Data
 - d) Significance of Research Objectives

Madan Bhandari College of Engineering
Urlabari-3, Morang
Final Internal Examination (Spring 2025)

Level: Bachelor

Programme: Computer Engineering

Year/Part: II/II

Subject: - Research Fundamentals

Full Marks: 100

Pass Marks: 45

Time: 3 hrs

- ✓ Candidates are required to give their answers in their own words as far as possible.
✓ Attempt all questions

1. What is research? Explain various features of research [2+8]
 2. Discuss the types of research with their advantages and disadvantages [10]
 3. What do you mean by the term "literature review"? Why it should be done by the researcher? Explain in detail with example [2+8]
 4. Explain conceptual framework and its components with respect to any research topic with diagram [10]
 5. What is case study research? Explain in detail with any suitable case study. Also mention its advantages and disadvantages [2+5+3]
 6. Differentiate primary and secondary data in research. Briefly explain different techniques for data collection in research work [3+7]
 7. What do you mean by data analysis? What are the methods for data analysis? Explain with suitable examples [2+8]
 8. State and briefly explain different responsibilities of Ethical researcher [10]
- OR
9. Discuss the features of an Ethical researcher with example [10]
 10. What is research proposal? Discuss the need and importance of research proposal [2+8]
 11. Briefly explain the components of research proposal [10]

Universal Engineering & Science College

Affiliated to Pokhara University

Chakupat, Lalitpur

Level: Bachelor

Semester: 4th

Year : 2025

Programme : BE Computer

Time : 3 hours

Full Marks: 100

Subject: Research Fundamentals

Pass Marks: 45

Pre-Board Examination-2082 (Spring 2025)

Candidates are required to give their answer in their own words as far as possible. The figure in the margin indicate full marks

Attempt all question.

1. a) Define and explain the term “Research”. Explain its importance and objectives. 7
b) What are the types of research? Explain with their characteristics and applications. 8

2. a) What is a literature review? Explain its purpose and how it is conducted. 7
b) Explain the components and significance of a conceptual framework in research. 8

Or

3. a) Discuss various data generation methods and mention which are most suitable for IT research. 8

Or

A bank wants to conduct research to evaluate the user experience of its mobile banking application. Suggest two suitable research strategies for this context and explain in brief.

b) What are the different types of referencing systems? Discuss the importance of citation and the consequences of plagiarism. 7

4. a) What do you mean by participant? Explain the rights of participants. 7
b) What are the ethical responsibilities of a researcher when involving human participants in a study? 8

5. a) What is a research proposal? Why is it important before starting a research? 7

b) What are the components of research proposal? Explain the components of the methodology in Research proposal. 8

6. a) What is research report and research paper? Why is it important to include sections like “Findings”, “Conclusion”, and “Future Work” in a research report? 7
- b) Explain the key components of a research report and their role in research. 8
7. Write short notes on (any two) $2 \times 5 = 10$
- a. 6P's of research
 - b. Types of data analysis
 - c. Ethnography

NEPAL COLLEGE OF INFORMATION TECHNOLOGY

Assessment Spring 2025

Level: Bachelor

Year: 2025

Programme: BE SE/CE

Full Marks: 100

Course: Research Fundamentals

Pass Marks: 45

Time: 3 hrs.

*Candidates are required to answer in their own words as far as practicable.
The figures in the margin indicate full marks.*

Attempt all the questions.

1. What is Research? Differentiate between research and project.
2. What are the types of Research? Explain each with its characteristics and application.
3. What are 6P's of research? Explain briefly.

Or

Explain the various range of sources you can use in a literature review.

4. What do you mean by research question? Why is it important in research?
5. Draw and explain the research process model diagram.
6. Explain briefly various strategies used in research with examples.

Or

7. What is Plagiarism? Suggest a few ways to avoid plagiarism.
8. What are the steps for conducting literature review in research? Explain each step briefly.
9. What is a research proposal? Explain various components of a research proposal.
10. Write short notes:
 - a. Citation and its types
 - b. Ethnography
 - c. Grounded Theory

NEPAL ENGINEERING COLLEGE

Level: Bachelor

Program: BC

Course: Research Fundamentals

Semester: Spring

Year: 2025

Full Marks: 100

Pass Marks: 45

Time: 3 hrs.

Candidates are required to answer in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

- | | |
|--|------------|
| 1. a) What do you mean by research? Explain its significance in the field of Computer Science and Engineering. | 7 |
| b) What are the 6 P's of the Research? Explain | 8 |
| 2. a) Briefly describe the different steps involved in a research process. Explain the research process with a suitable diagram. | 7 |
| b) What are the objectives of conducting a literature review in research? Describe the process of conducting a systematic literature review. | 8 |
| 3. a) Define plagiarism in the context of academic research and discuss its consequences. | 7 |
| b) What are the different types of triangulation that can be used to validate findings in a research project? | 8 |
| 4. a) What legal considerations should researchers be aware of when conducting research? | 7 |
| b) What is intellectual property rights? Discuss the implications of intellectual property rights in research outputs. | 8 |
| 5. a) Define a research proposal and explain its significance in the research process. | 7 |
| b) Discuss the purpose and contents of an abstract in a research proposal. How does it differ from the abstract in the research report? | 8 |
| 6. a) List and describe the main components of a research report. | 7 |
| b) Why are methodology, data analysis, and findings are essential parts of a research report? Discuss | 8 |
| 7. Write short notes on: (Any two) | 2×5 |
| a) Quantitative vs. Qualitative | |
| b) Responsibilities of an Ethical Researcher | |
| c) Differentiate Research Proposal and Research Report | |

**POKHARA ENGINEERING COLLEGE
INTERNAL ASSESSMENT**

Level: Bachelor Semester:
Programme: B.E.
Course: Research Fundamentals

Semester – Spring

Year : 2025

Full Marks: 100

Time : 3 hrs.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all the questions.

- | | | |
|-----|--|---|
| 1a. | Why do we need research? Explain the types of research. | 8 |
| b. | What are the types of research question? How do you ensure data validity and reliability? | 7 |
| 2a. | Differentiate between project and research. Explain 6P's in research. | 7 |
| b. | Briefly describe the different steps involved in a research process. | 8 |
| 3a. | Suppose you are performing a literature review for a study. What are the considerations required for proper literature review? | 8 |
| b. | Describe different citation styles with suitable examples. | 7 |
| 4a. | Define plagiarism. What are the different types of data generation methods. | 8 |
| b. | Define research problem. How do you select a good research problem? | 7 |
| 5a. | What is qualitative data? How do you analyse the qualitative data? | 8 |
| b. | Who are the participants in research? Explain the responsibilities of an ethical researcher? | 7 |
| 6a. | What is research report? What are the components of research report? | 8 |
| b. | Explain scientific research process. | 7 |
| 7 | Write Short notes on: (Any Two):10 | |
| a. | Informed Consent | |
| b. | Characteristics of good research title | |
| c. | Research hypothesis | |

Pokhara University

Level: Bachelor

Full Marks: 100

Programme: Research Fundamentals

Pass Marks: 45

Course: Software IV

Candidate are required to give their answers in their own words as far as practicable

Figure in the margin indicate full marks

Attempts all the questions

- 1.a. a What is research? Explain the process of selecting research objectives, and illustrate the difference between general and specific research objectives. 7
b What are the various types of research design? Justify which research design you would select to conduct a study on mobile phone addiction and its impact on sleeping patterns in the modern age. *Demanding and HIV* 8
- 2.a. a What are the 6 Ps that need to be addressed while conducting research? 7
b What is a literature review, and how does it help in identifying the research gap? 8
- 3.a. a Differentiate between citation and bibliography. Illustrate with suitable examples from your field. 7
b What are research questions? Explain their significance and discuss why a hypothesis is important before designing a research study 8
- 4.a. a What are research ethics? Explain the concept and illustrate it with an example of plagiarism.
Or
What is sampling? Explain its various types and how a researcher determines the sample size. 7
- b Generate the APA and IEEE citation formats for the following article: Author – Yagyanath Rimal, Anil Shree Vastab, Bhesh Thapa Title – 'Machine Learning Hyperparameter Tuning: Effectiveness on Modern Heart Disease', Published – July 14, 2024, in Scientific Journal, Volume 23, Page 345." Or
Differentiate between descriptive and inferential statistics in the context of research data analysis. 8
- 5.a. What is research triangulation? Explain its significance in modern research. 7
5.b. Differentiate between qualitative and quantitative research designs. 8
- 6.a. Explain and justify the statement 'rights of people directly involved in research' 7
6.b. What are the components of a research report? Illustrate each component and its structure. 8
7. ANY two 5
- A Abstract 5
B Methodology 5
C Mandley and Zotero 5

**UNITED TECHNICAL COLLEGE
QUALIFYING TEST**

Level: Bachelor

Year: 2025

Programme: BE

Full Marks: 100

Course: Research Fundamental

Pass Marks: 45

Time : 3 hrs.

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Attempt all questions:

- | | | |
|--|---|---|
| a) | Define research? What is the research aim and objectives? | 8 |
| b) | What are the characteristics of research? Explain. | 7 |
| a) | What are different types of research? Differentiate fundamental and applied research with examples. | 8 |
| b) | What are the 6Ps of research? Explain. | 7 |
| a) | What is a literature review? How can a literature review support the research? Explain its importance. What is the purpose of citations in academic writing? Explain the different types of citations with examples. | 8 |
| b) | Describe the different types of data generation methods with their advantages and possible constraints of different data generation techniques. What is a research proposal? Why is a research proposal needed? Explain the reason why the research proposal is rejected sometimes? | 7 |
| b) | What is a research report? Explain the different components of the research report. Define research participants. Describe the rights of people directly involved in research. | 8 |
| i) | What are the various responsibilities of an ethical researcher? Explain. | 7 |
| Differentiate between bibliographic detail and referencing system. | | 8 |

Write short Notes (Any Two) (5×2 =10)

a) Research Hypothesis

b) Product of research

c) Plagiarism

National Academy of Science and Technology

(Affiliated to Pokhara University)

Dhangadhi, Kailali

Pre University Examinations

Level: Bachelor

Semester: IV_Spring

Year : 2025

Program: B.E. Computer

F.M. : 100

Course: Research Fundamentals

P.M. : 45

Time : 3 hrs.

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Attempt all the questions.

1. a) What do you mean by research? Mention the aims and objectives of research. 8
b) What are the specific features of research? Elaborate in detail. 7
2. a) What do you understand by plagiarism? Explain about the types of plagiarism: 8
b) What do you mean by literature review? Elaborate the sources of literature with examples. 7
3. a) What do you mean by research strategy? Indicate the difference between case study and action research. 8
b) What do you understand by data collection? Distinguish between focus group discussion and documents. 7
4. a) What is triangulation in research? Mention the types of triangulation in a research project. 8
b) What do you mean by research question? Write about the characteristics of research question. 7
5. a) How do you define research ethics? Mention the responsibilities of an ethical researcher in the research process. 8
b) What are rights of participants in research process? Explain. 7
6. a) What is research proposal? Explain about the components of research proposal. 8
b) What do you understand by report? Mention the significance of a Research Report. 7
7. Write short note on (any two) $5*2=10$
i. Basic and applied research
ii. Products of research
iii. Observation and interview

Rapti Engineering College

(Affiliated to PU)

Ghorahi Sub-Metropolitan-16 Saniambapur, Sarra, Dang

Final Internal Assessment Examination 2082

Level: Bachelor

Year: 2025

Program: Bachelor in Computer Engineering

Full Marks: 100

Semester: IV

Pass Marks: 45

Course: Research & Fundamentals

Time: 3 hrs.

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Attempt all the questions.

1. a) What do you mean by Primary and Secondary data in research? 8
What are sources of Primary and Secondary data.
- b) What do you mean by variables in research? What are the types of variables in research? 7
2. a) What is Literature Review in research? What are the possible sources of finding research topic? 8
b) What is research? What are the aims and objectives of research? 7
3. a) What are the 6Ps in research? Explain briefly. 8
b) What do you mean by ethical concerns in research? Explain briefly . 7
4. a) What are the types of research? Differentiate between Basic and Applied Research. 8
b) Differentiate between qualitative and quantitative research. 7
5. a) What are the sequential process of organizing and preparing data for data analysis? 8
b) What do you mean by citation in research? What are their types? 7