

2 Hours

Total Marks: 50

N.B:

1. Attempt **all** questions.
2. **All questions** carry **equal** marks.
3. Draw **neat labeled diagrams** wherever necessary.
4. Use of **log tables** and **non-programmable calculators** is **allowed**.

Q.1 Answer the following(ANY TWO)**10**

- a. Explain the concept of construct in the research process.
- b. What is a research thesis? Explain the following elements of a research thesis draft-Introduction, methodology, results and discussion.
- c. Discuss in brief how laws and principles are useful in contending with hypotheses.

Q.2 Attempt the following (ANY TWO)**10**

- a. Describe the different ways of administering a questionnaire for data collection.
- b. Give the significance of the covering letter and its content.
- c. Explain random sampling and its significance.

Q.3 Answer the following(ANY TWO)**10**

- a. Give a brief account on the structure of a research proposal.
- b. Enlist the essential language components used in scientific writing.
- c. Software tools aid in scientific writing.

Q.4 Answer the following (ANY TWO)**10**

- a. Explain any two AI tools in controlling plagiarism
- b. What are creative commons licenses ? Explain the icons which represent the features of different creative commons licenses .
- c. Explain the consequences of plagiarism giving suitable examples.

Q.5 Answer the following in detail (ANY ONE)**10**

- a. Explain the different types of plagiarism giving suitable examples.
- b. Describe the different methods of data collection in research.
- c. Exploratory Research Design.