

Int. M.Sc. (DS) (NEP) Sem.-5 Examination  
SEC-356

Scientific Writing

November-2025

[Max. Marks : 25

Time : 1-00 Hour]

**Instructions:** All questions are compulsory. Use of non-programmable scientific calculator is allowed.

- Q.1 (a) (05)
- I. Which type of article is most suitable for publication in a research journal? (03)
- II. If we wish to check whether the male population is more intelligent than the female population, how would you formulate a hypothesis? (02)
- (b) (05)
- I. What practices should be avoided to maintain clarity in scientific writing? (03)
- II. Identify redundancy in the sentence: "*Indian mobile number is in ten digits in number*". (02)
- OR**
- (a) (05)
- I. What does an abstract in a research paper contain? (03)
- II. Which phrase should be avoided in a proposal and why? (02)
- (b) (05)
- I. What is the purpose of a research proposal? (03)
- II. Define a prediction in the context of scientific research. (02)
- Q.2 (a) (05)
- I. How do researchers come up with a good research question? (03)
- II. Explain the difference between a prediction and a test in the scientific method. (02)
- (b) (05)
- I. What is Evaluation Research? Explain its main concern. (03)
- II. What is the meaning of *i.e.* and how is it used correctly in academic writing? (02)
- OR**
- (a) (05)
- I. Explain the main function of a literature review in research. (03)
- II. How can articles be promoted effectively? (02)
- (b) (05)
- I. What is SEO, and why is it important in publishing scientific articles? (03)
- II. Define *Journal Impact Factor* and explain its significance. (02)

**Q.3** Attempt any **FIVE** out of **SIX**: (Each carries **ONE** mark)

(05)

- (1) Which part of the paper is usually read first by researchers?
- A. Introduction
  - B. Methods
  - C. Results
  - D. Abstract
- (2) What should be included in the introduction of a scientific paper?
- A. Data and results
  - B. Experimental procedures
  - C. Background information and research question
  - D. List of references
- (3) Which term refers to the ethical practice of acknowledging sources and avoiding plagiarism?
- A. Referencing
  - B. Data analysis
  - C. Peer review
  - D. Hypothesis testing
- (4) What is typically included in the timeline section of a research proposal?
- A. Detailed results of the research
  - B. A schedule of the tasks and milestones for the project
  - C. The literature review
  - D. The significance and impact of the research
- (5) Which of the following is a well-known scientific journal?
- A. The New York Times
  - B. Nature
  - C. Vogue
  - D. Time Magazine
- (6) What does the term "blind peer review" mean?
- A. Reviewers are anonymous to the authors
  - B. Authors are anonymous to the reviewers
  - C. Both reviewers and authors are anonymous to each other
  - D. Reviewers can see the names of the authors but not their affiliations

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