

This question paper contains **3** printed pages]

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S. No. of Question Paper : **7601**

Unique Paper Code : **2353010015**

Name of the Paper : **Research Methodology**

Name of the Course : **B.A. Programme**

Semester : **VI**

Duration : **3 Hours**

Maximum Marks : **90**

(Write your Roll No. on the top immediately on receipt of this question paper.)

Attempt any *two* parts from each question.

All questions carry equal marks.

1. (a) What are the dos and don'ts in writing a good abstract for a research paper ? 7.5
- (b) State some general principles of mathematical writing. 7.5
- (c) In context of mathematical writing, give brief description of a Proposition, Theorem and an open problem with example. 7.5
2. (a) What are the important points to be kept in mind while submitting a revision of a manuscript. 7.5

P.T.O.

- (b) Explain the general instructions given to authors for preparing and submitting a manuscript by the Journals. 7.5
- (c) Describe the stepwise role of copy editors after the acceptance of a manuscript. 7.5
3. (a) Discuss the advantages of LaTeX in preparing a scientific text. 7.5
- (b) Differentiate between Oral and Poster Presentation. 7.5
- (c) Using PSTricks, draw a diagram of line, triangle and circle. 7.5
4. (a) Describe the environments for writing mathematical formulas in LaTeX document. 7.5
- (b) What do you understand by cross-referencing ? How one can do cross-referencing in LaTeX document ? 7.5
- (c) How to make presentation in LaTeX ? Explain with the help of example. 7.5
5. (a) Name and explain *two* key differences between MathSciNet and zbMath. 7.5
- (b) What is Web of Science and Scopus used for ? Which *one* includes more journals ? 7.5

- (c) State whether the following statements are True *or* False with reasons :
- (i) Scopus only includes English-language journals.
 - (ii) Web of Science allows forward and backward citation searches.
 - (iii) zbMath provides access to original math articles. 7.5
6. (a) Define the *h*-index for an author from Google Scholar Metrics. Explain how they are computed with an example. 7.5
- (b) What problems arise when researchers rely only on journal metrics for quality judgment ? 7.5
- (c) Why is academic integrity important ? List *three* unethical practices that software like Turnitin can detect. 7.5