

This question paper contains 3 printed pages]

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S. No. of Question Paper : 8084

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.

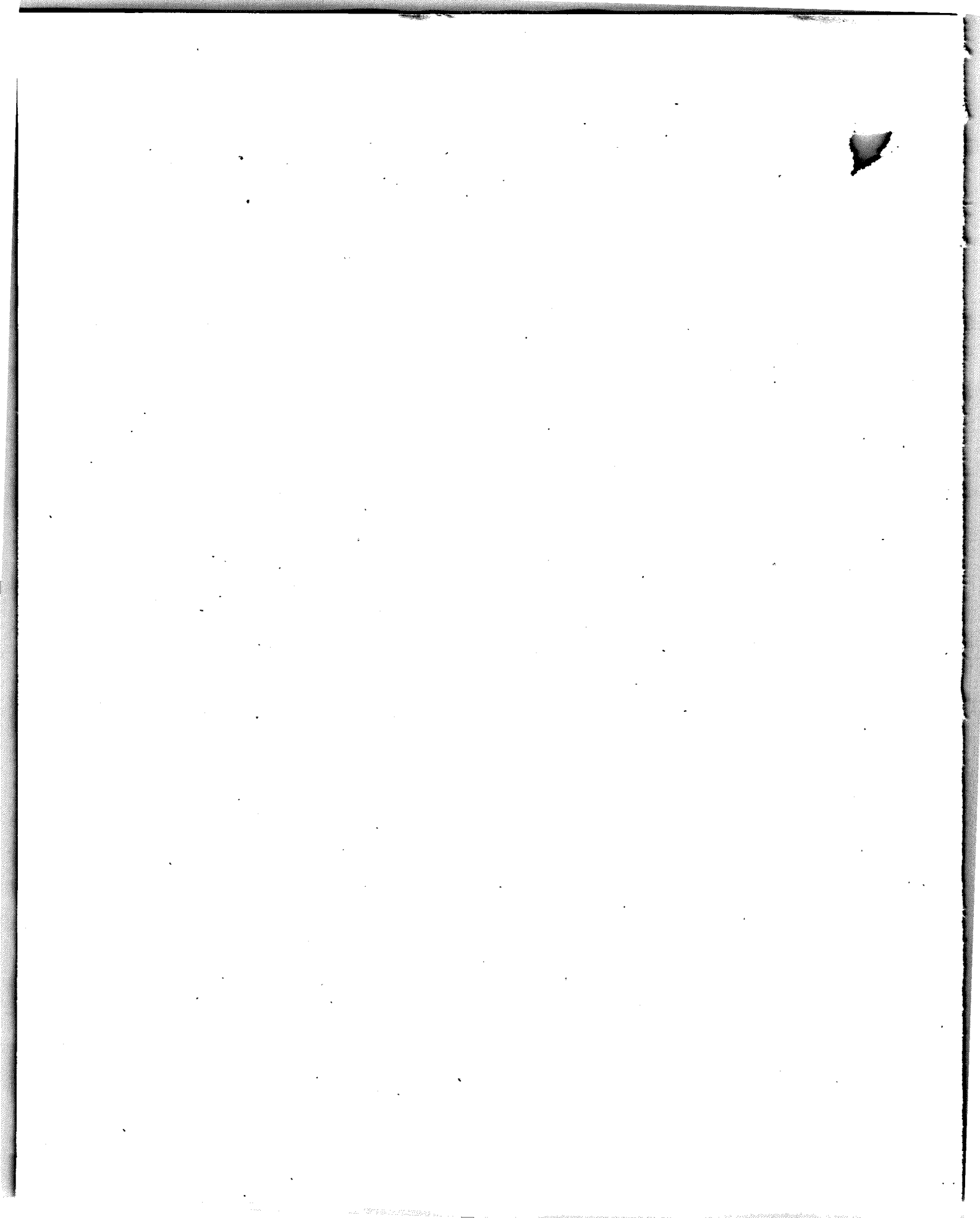
All questions carry equal marks.

1. (a) Describe the format of a mathematical research article/paper. 7.5
- (b) What is the role of Mathematics Subject Classification and Keywords in a research paper ? 7.5
- (c) In context of mathematical writing, give brief description of a Lemma, Theorem and Conjecture with example. 7.5
2. (a) Describe the refereeing process after submission of a manuscript. 7.5

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- (b) What are the points to be kept in mind while selecting a research topic ? 7.5
- (c) What are the common errors that may appear in mathematical writing and how to correct them ? 7.5
3. (a) Write a LaTeX source program for creating the title page of a research paper. How the sectioning commands help in organizing a research document ? 7.5
- (b) Discuss the characteristics of good power point presentation. 7.5
- (c) What is PSTricks ? How is it useful in making simple pictures ? 7.5
4. (a) State and discuss the list-making environments in LaTeX. 7.5
- (b) How to define new command and environment in LaTeX document ? 7.5
- (c) How to make a beamer presentation ? Explain it with the help of example. 7.5
5. (a) List any three features of MAA, AMS and SIAM that support mathematical research. 7.5
- (b) What is the difference between arXiv and ResearchGate in terms of content and use ? 7.5

- (c) Identify which web resource you would use for : Finding math journals. connecting with researchers, Reading free preprints (Justify your choices briefly.) 7.5
6. (a) A journal published 100 papers in 2021 and 120 in 2022. These received 660 citations in 2023. Calculate its Impact Factor as per JCR and Cite score. 7.5
- (b) Explain the meaning of SNIP and SJR. Why are they needed alongside the Impact Factor ? 7.5
- (c) What is plagiarism ? Explain with *two* examples. What software can help detect plagiarism ? 7.5



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CORRIGENDUM

Sl. No. of Q.P	:	8084
Unique Paper Code	:	2353010015
Name of the Paper	:	Research Methodology
Course	:	B.Sc. (Hons/Prog)
Exam	:	02/06/2025 Morning
SEMESTER/YEAR	:	VI
DURATION	:	3 Hour
Maximum Marks	:	90

Announcement for candidates

Course Name be read as **B.Sc. (Hons/Prog)** instead of B.A. Programme



Joint Registrar (Secrecy)