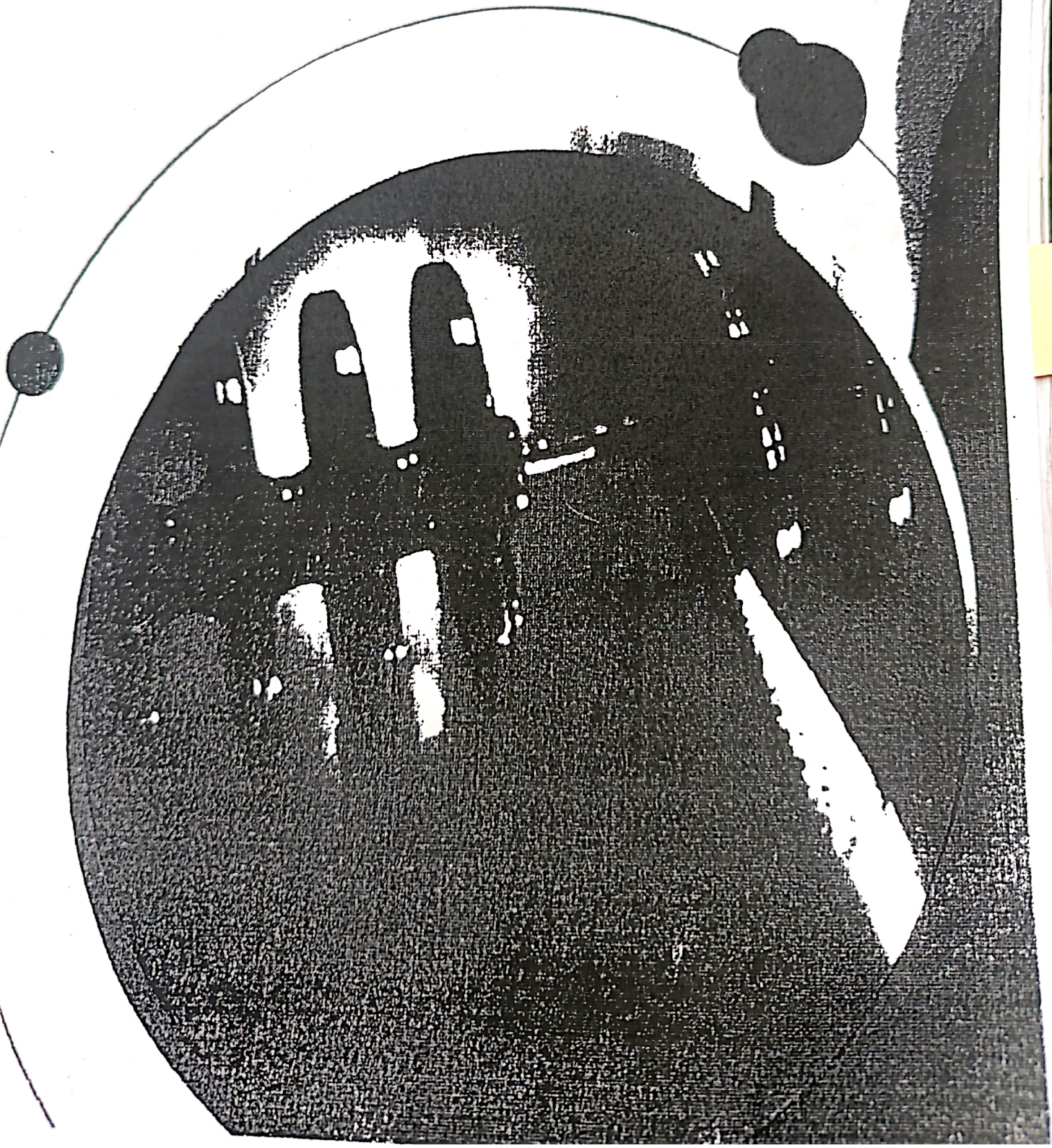
Raj Publishers (Regd.)

Quantitative Techniques - II

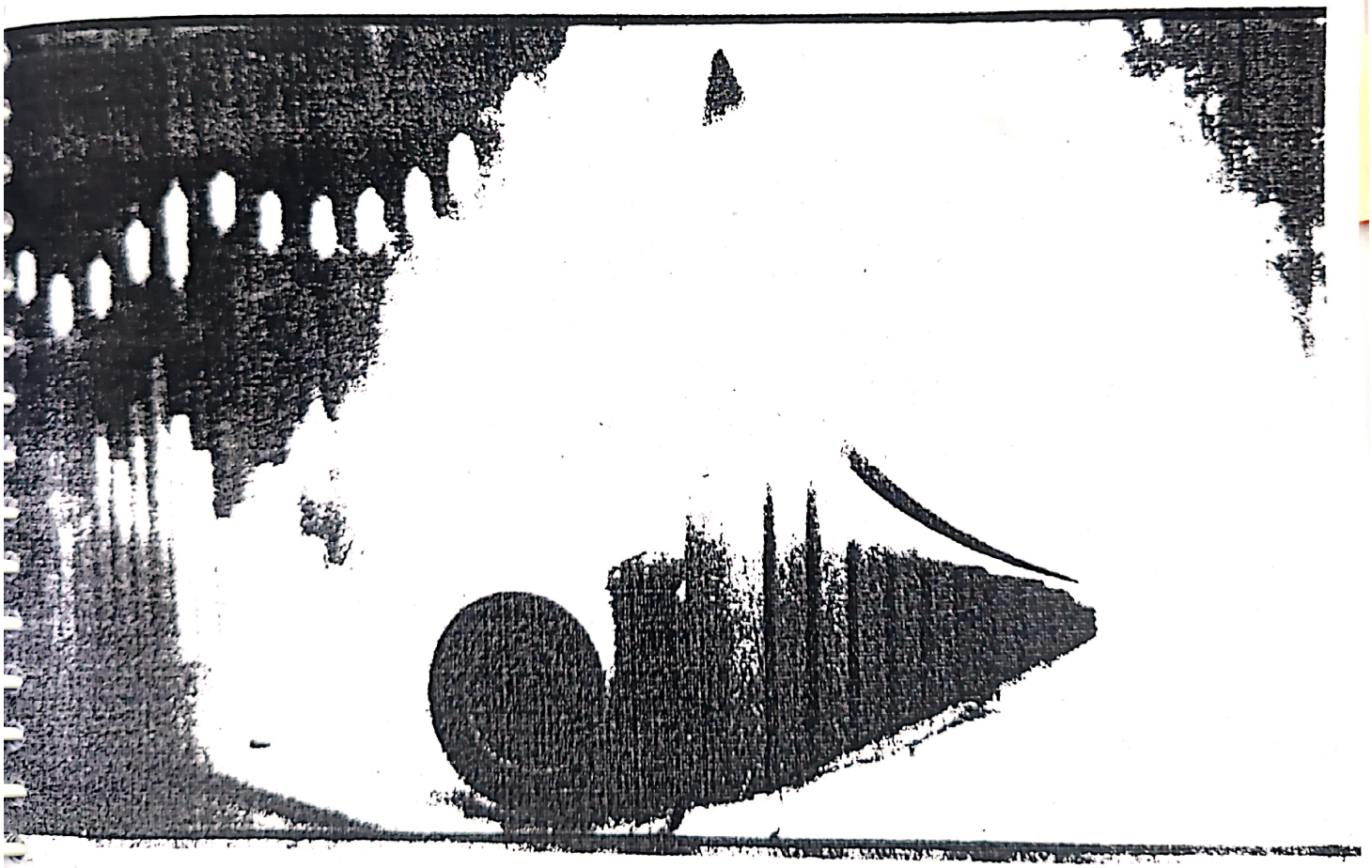


Raj Publishers (Regd.)

Quantitative Techniques - II

B.A./B.Sc. 2nd Semester (G.N.D.U.)

Dr. Vikram Chaudhary



Dr. Vikram Chowdhry
M.Sc. (Hons.) Economics, Ph.D.
Assistant Professor
PG. Deptt. of Economics
DAV College, A...

Deepak Talwar,
M.Sc. (Hons.) Economics, M.Phil.,
Assistant Professor,
Bebe Nanaki University College,
Mithra (Kpt.)

Dr. Vani A...
M.Sc. (Hons.) ...
Assistant Professor
Hindu ...

Published by :
Shashi Kumar Khanna
Raj Publishers (Regd.)
Adda Tanda, Jalandhar - 144 008

Office : 5059881, 5059880
Phones :
Resi. : 5059882, 5059883

© All rights including subject matter, style & blocks etc. are reserved with the Publisher & the Author. No part of this book can be reproduced in any form without their written permission.

Disclaimer :

While Printing this book we have taken every possible precaution, the Publisher and the Author are not responsible of errors or omissions and/or any loss resulting from them.

Preface

Price : Rs. 498/-

Quantitative Techniques II has emerged as an important subject for the study of economics. It has provided us a number of **mathematical** and statistical techniques for understanding economic theories in a better way. Today, nobody can think of research in economics without the aid of these techniques. However, the students of economics from arts background have lack of advanced knowledge in mathematics.

In this book an attempt has been made to present the Quantitative Techniques to the students of economics in a simplified and lucid manner. Every chapter begins with introductory concepts which are aimed at providing basic theoretical knowledge about the statistical methods of economics.

The aim of the book is not only to provide an understanding of the methods but also acquaint the students about the practical application of these methods in real life economic problems. A large number of solved practical examples have been given in each chapter. In doing so, we have tried to incorporate almost all the Questions of University examination of recent years. We hope that present book will succeed in presenting the subject in a comprehensive, lucid and simplified manner. Suggestions for further improvement are always welcomed.

Last but not least, I am thankful to Mr. Shashi Kumar Khanna, M/s Raj Publishers (Regd.). Jalandhar for printing this book timely and presenting it in a beautiful form.

Suggestions for improvement are solicited and would be incorporated in future editions, wherever possible.

Author

Instructions for the Paper Setters:- Eight questions of equal marks (Specified in the syllabus) are to be set, two in each of the four Sections (A D). Questions may be subdivided into parts (not exceeding four). Candidates are required to attempt five questions, selecting at least one question from each Section. The fifth question may be attempted from any Section.

SECTION–A

Statistics : Definition, Scope in Economics, Significance, Limitations. Tabulation, Classification and Graphical representation of data (Pie Chart, Bar Diagram, Histogram, Frequency Polygon, Ogive Curve, etc.).

SECTION–B

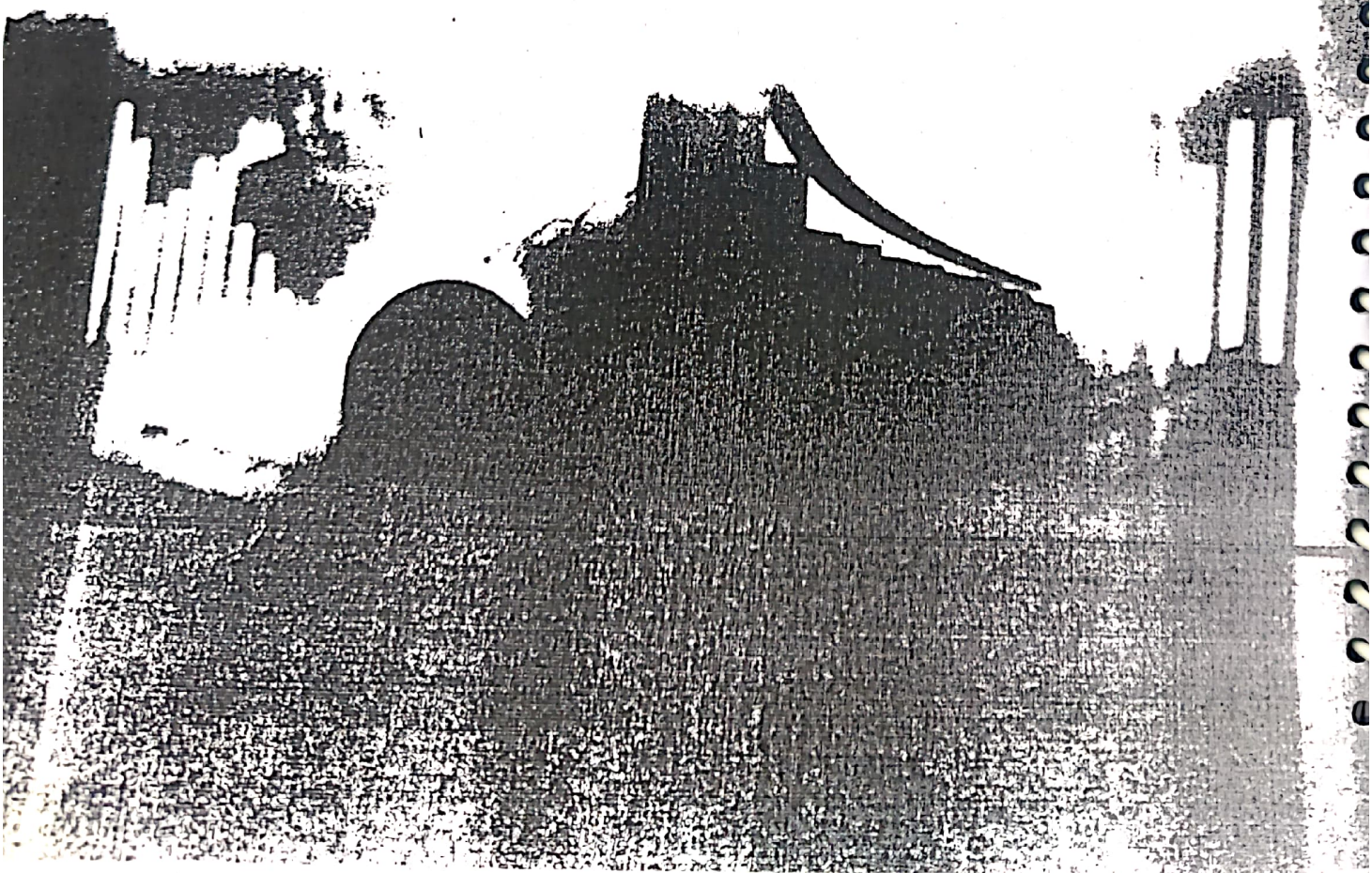
Concepts and Measures of Central Tendency : Mean, Median and Mode; Concepts and Measures of Relative Dispersion.

SECTION–C

Correlation Analysis : Introduction, Importance, Karl-Pearson's Coefficient of Correlation, Spearman's Rank Correlation Coefficient, Simple Regression Analysis; Difference between Correlation and Regression, Lines of Regression, Properties of Correlation and Regression Cofficients (Stress on numerical examples).

SECTION–D

Index Numbers : Concept of Index Number, Purpose Construction & Problems. Laspeyre, Paasche and Fisher's Formulae, Tests of Consistency. Analysis of Time Series: Definition, Components of Time Series. Measurement of Trend by different methods; stress on examples

CONTENTS

1.	STATISTICS : DEFINITION , FUNCTION AND SCOPE	1-9
2.	CLASSIFICATION AND TABULATION OF DATA	10-49
3.	DIAGRAMMATICAL AND GRAPHICAL REPRESENTATION OF DATA	50-110
4.	THEORY OF SAMPLING	111-127
5.	MEASURES OF CENTRAL TENDENCY	128-295
6.	MEASURES OF DISPERSION	296-377
7.	SKEWNESS AND KURTOSIS	378-428
8.	CORRELATION ANALYSIS	429-484
9.	REGRESSION ANALYSIS	485-550
10.	INDEX NUMBERS	551-642
11.	TIME SERIES ANALYSIS - I	643-728
	PAPER	1-7
	Log Tables	1-4