

Vipul's
B.Sc. (IT) Series

*Quantitative
Techniques*

D. M. DOKE



VIPUL PRAKASHAN
MUMBAI - 400 004

AS PER REVISED SYLLABUS OF B.Sc. (IT) COURSE
FOR MUMBAI UNIVERSITY W.E.F. JUNE, 2011

Vipul's
**QUANTITATIVE
TECHNIQUES**

(B.Sc. (IT) Second Year : Fourth Semester)

D. M. DOKE

M.Sc. (Stats)

*Vice-Principal and Associate Professor of Mathematics and Statistics,
M. L. Dahanukar College of Commerce,
Vile-Parle, (East), Mumbai - 400 057.*

D. M. Doke,
Principal
M.L. Dahanukar College
of Commerce
Sixt Rd., Vile Parle (E),
Mumbai - 400 057.

SIXTH REVISED EDITION

**WITH BEST COMPLIMENTS
FROM THE PUBLISHER**



VIPUL PRAKASHAN

161, Jagannath Shankar Seth Road,
Girgaum, Mumbai - 400 004.

Tele/Fax: 2387 1127 / 2387 9395

E-mail: vipulprakashan@gmail.com

Contents

No.	Chapter	Pages	
UNIT - I			
1.	Errors in Numerical Calculations	1-8	
2.	Solutions of Algebraic and Transcendental Equations	9-37	
3.	Interpolation	38-62	<i>In</i>
UNIT - II			
4.	Solutions of Simultaneous Algebraic Equations	63-92	1.1
5.	Numerical Integration	93-118	1.2
6.	Numerical Solutions of Differential Equations	119-149	1.3
UNIT - III			
7.	Random Variables	150-202	1.4
8.	Standard Probability Distributions	203-281	1.5
UNIT - IV			
9.	Fitting of Curves	282-295	1.1
10.	Correlations and Regression	296-326	1.1 T whi nece havi and may prop char I num met such app ther prin] val
UNIT - V			
11.	Large Sample Tests	327-366	
UNIT - VI			
12.	Exact Sampling Distributions (Chi-Square and Student <i>t</i> Distribution)	367-401	
13.	Linear Programming	402-469	
	Appendix	470-472	



(vi)

Deven
Principal
M.L. Dahanukar College
of Commerce
Dixit Rd., Vile Parle (E),
Mumbai - 400 057.