Content

Page

Chapter 1 Introduction to Statistics 1
1 What is statistics 1
2 Descriptive and Inferential Statistics 1
3 Variables and Type of Data 1
4 Data collection and Sampling Techniques.....3

Chapter 2 Frequency Distribution and Graphs.....4
1Introduction 4
2 Organizing Data 4
3 Histograms, Frequency Polygons, and Ogives 9
4 Other Types of Graphs 12

Chapter 3 Data Description 17
1Introduction 17
2 Measures of Central Tendency 17
3 Measures of Variation 24
4 Measures of Positoon 31
5 Exploratory Data Analysis.....37

Chapter 4 Counting Rules and Probability.....38
1 Counting Rules 38
2 Basic Concept of Probability 41
3 Laws of Probability 44
4 Conditional Probability and Bayes's Rule.....46

Chapter 5 Random Variable and Probability Distribution.....49
1 Random Variable 49
2 Discrete Probability Distribution 49
3 Mean, Variance, and Expectation 51
4 Discrete Distribution 54
5 Normal Distribution and Gaussian distribution 57