Bachelor of Business Administration
Annual Examinations – 2006

Paper BBAD – 203
Business Statistics

Time allowed: Three hours | Maximum Marks: 100

SECTION – I

Marks

Q1. Fill in the blanks 1X20=20

Attempt all questions. All questions carry equal marks.

i) A statistical investigation is a process of collection and _____.
ii) A real population is one in _____.
iii) The main objective of collection and analysis of sample information is to reveal _____.
iv) A questionnaire or a Schduele is a list of _____.
v) A discrete variable can assume only some specific _____.
vi) Sliding bar diagrams are _____.
vii) A histogram is a graph of a frequency _____.
viii) A properly constructed graph may _____.
ix) Arithmetic mean is defined as _____.
x) Median of a distribution is _____.
xi) A measure of central tendency summarises _____.
xii) Various measures of dispersion can be _____.
xiii) The moments $\mu 0$, $\mu 1$, $\mu 2$.....etc are also known as _____.
xiv) Correlation is an analysis of _____.
xv) The term 'Regression', originated from _____.
xvi) An index number is a device for comparing _____.
xvii) The analysis of time series implies _____.
xviii) The coefficient of collignation is _____.
xix) The fitting of a distribution to given data implies _____.
xx) Random sampling means _____.

SECTION – II

Answer any six of the following questions in about 75-100 words each. Each question carries five marks. 5X6=30

Q1. Give the meaning and definition of statistics.

Q2. How do you see statistics as data and statistics as science?

Q3. Discuss the significance and scope of the study of statistics.

Q4. Distinguish between population and sample.

Q5. Explain the non – random sampling methods.

Q6. What do you know about Histogram, Frequency Polygon, and Frequency Curve?

Q7. The heights of 15 students of a class were noted as shown below. Compute the Arithmetic Mean by using the Direct Method as well as Short – Cut Method.

S.NO.	Ht (cms)
1	160
2	167
3	174
4	158
5	155
6	171
7	162
8	152
9	156
10	175
11	178
12	167
13	177
14	162
15	153

Q8. A bag contains three red balls, four black balls, and three golden balls. One ball is to be drawn at random from the bag. What is the probability of picking (i) red ball (ii) black ball (iii) green ball?

SECTION – III

Attempt any five of the following questions in about 300-400 words each. Each question carries ten marks. 5X10=50

Q1. Discuss the functions and importance of statistics in detail.

Q2. What do you understand by a random sampling method? Explain various methods of drawing a random sample.

Q3. What do you understand by secondary data? State their chief sources. What are the requisites of a good questionnaire? What steps would you follow to make a good questionnaire?

Q4. What do you mean by statistical average? Describe the characteristics of a good statistical average. What are the functions of an average? Differentiate between Arithmetic Mean, Geometric Mean, and Harmonic Mean.

Q5. What is correlation? Distinguish between positive and negative correlation. Discuss the scope of correlation analysis. What do you know about scatter diagram?

Q6. Compute Karl Pearson's coefficient of correlation from the following data:

X	:	8	11	15	10	12	16
Y	:	6	9	11	7	9	12

Q7. Explain the meaning of statistical quality control. What are the advantages of statistical quality control? Point out its usefulness in industry.

Q8. What do you mean by the term "probability"? One card is to be drawn at random from a pack of cards. What is the probability that the card drawn is a (i) King (ii) Queen (iii) King or Queen (iv) King with a Spade?