780113 **DCBB113/DCBA113**

Reg. No. | | | | | | | | |

I Semester B.B.A. (Regular) & B.B.A. (Business Analytics)

Degree Examination, December/January-2025/26

BUSINESS ADMINISTRATION

Statistics for Business Decision-I

(SEP Scheme)

Paper-1.3

ACHARYA INSTITUTE OF GRADUATE STUDIES
LIBRARY
Date:
BANGALORE-107

Time : 3 Hours **Maximum Marks : 80**

Instructions to Candidates:

All the answers should be written in English only.

SECTION-A

Answer any Five sub-questions. Each sub-question carries Two marks. **(5×2=10)**

1. a) What do you mean by Statistics?
   b) What is classification of data?
   c) Mention two limitations of statistics.
   d) What is skewness?
   e) What is consumer price Index?
   f) Find the quartile deviation if upper quartile is 60 and lower quartile is 20.
   g) Write formula for calculating geometric mean.
   h) What is primary data?

SECTION-B

Answer any Four of the following questions. Each question carries Five marks. **(4×5=20)**

2. Mention parts of a table.
3. Write any Five functions of statistics.

[P.T.O.

4. Calculate consumer price index using family Budget method for the year 2024 with 2020 as base year for the following data:

		Price (Rs.)	
Items	**Weights**	**2020**	**2024**
M	30	180	150
N	15	60	90
O	10	30	40
P	20	60	70
Q	25	70	90

5. Calculate the mode for the following data:

X(Values):More than	10	20	30	40	50
Frequency:	50	35	25	18	5

6. Calculate the Median for the following data:

X (Values):	0-10	10-20	20-30	30-40
Frequency:	4	10	12	4

7. The number of Students in a college in 2020 was 800, out of which 40% where girls and the rest boys. In 2022, the strength of the students increased by 120 girls and 180 boys. In 2024 the total number of students increased by 20% compared to its value in 2022, out of these, the number of girls was 500. Tabulate the above.

SECTION-C

Answer any Three of the following questions. Each question carries Fifteen marks. **(3×15=45)**

8. Calculate the mean, median and mode for the following data:

X (Values): More than	40	50	60	70	80	90
Frequency:	76	54	32	20	18	4

9. From the following data Determine which company shares are more consistent.

Shares of A Co.:(Rs.)	95	96	94	97	93	98
Shares of B Co.:(Rs.)	78	82	80	84	81	76

10. From the following data, Calculate Fisher's ideal index number and test whether it satisfies TRT and FRT.

	Price (Rs)		Quantity	
Commodities	**Base year**	**Current year**	**Base year**	**Current year**
A	50	65	10	12
B	40	52	8	9
C	25	30	12	15
D	70	90	5	6
E	100	120	4	5

11. Calculate Karl pearson's Co-efficient of Skewness for the following data:

Marks:	10-20	20-30	30-40	40-50	50-60
No of Students:	10	26	30	20	14

12. Calculate quartile deviation and its Co-efficient for the following data:

X:	10	20	30	40	50	60
Frequency:	14	18	12	16	20	8

SECTION-D

Answer the following question. The question carries 5 marks. **(1×5=5)**

13. Draw a Histogram and identify mode with imaginary data.