A–1105

Total Pages : 3 **Roll No. .....**

BBA(N)–404

Business Statistics

Examination, June 2025

Time : 2:00 Hrs. Max. Marks : 70

Note* :–** This paper is of Seventy (70) marks divided into Two (02) Sections 'A' and 'B'. Attempt the questions contained in these Sections according to the detailed instructions given therein. ***Candidates should limit their answers to the questions on the given answer sheet. No additional (B) answer sheet will be issued.

Section–A

Long Answer Type Questions 2×19=38

***Note* :–** Section 'A' contains Five (05) Long-answer type questions of Nineteen (19) marks each. Learners are required to answer any *two* (02) questions only.

1. Explain the meaning of parameter and statistic, describe how they are related, and illustrate different types of variables with suitable examples.
2. Define central tendency and explain its importance in data analysis. Also, differentiate between mean, median, and mode with suitable examples.
3. Differentiate between absolute and relative measures of dispersion, and explain how standard deviation improves upon variance in terms of interpretation.
4. Distinguish between correlation and regression analysis with examples, and write the equation of a simple linear regression model explaining its components clearly.
5. Define probability. Distinguish between classical, empirical, and subjective probability with suitable examples.

Section–B

Short Answer Type Questions 4×8=32

***Note* :–** Section 'B' contains Eight (08) Short-answer type questions of Eight (08) marks each. Learners are required to answer any *four* (04) questions only.

1. Define hypothesis testing.
2. Discuss the role of time series analysis in business decision-making.

3. Define index numbers and explain their significance in economic analysis

4. Define skewness and explain its types with examples.

5. Explain the use of the coefficient of variation.

6. Describe the properties of the arithmetic mean.

7. Compare pie charts and bar charts in terms of effectiveness.

8. What are the primary functions of descriptive statistics ?

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