

A-1124

Total Pages : 4

Roll No.

BBA (N)-404

Business Statistics

Examination February, 2026

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.

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(1)

P.T.O.

1. Differentiate and evaluate Descriptive Statistics and Inferential Statistics. Explain their objectives, methods, and applications with suitable business-oriented illustrations.
2. Differentiate between absolute and relative measures of dispersion. Discuss coefficient of variation.
3. Calculate Karl Pearson's coefficient of correlation from the following data and interpret the result :

X	Y
10	15
12	18
14	20
16	22
18	25

4. Critically analyze the assumptions, scope, and limitations of linear regression analysis in business applications.

5. Explain level of significance, Type I error, and Type II error. Also illustrate the procedure of hypothesis testing using appropriate steps.

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. Explain the concept of business forecasting and its managerial importance.
2. Explain mutually exclusive and equally likely events with examples.
3. Differentiate between Z-test and t-test.
4. Explain primary and secondary data. Discuss their relative merits and limitations.
5. Define index numbers and explain their importance.
6. Explain the concept of kurtosis and its types.

7. Using the moving averages method, calculate trend values for the data :

Year	Sales
2020	100
2021	120
2022	140
2023	160

8. Monthly expenditure of a family is given below (₹) :
Food 40%, Rent 25% Education 15%, Others 20%
Construct a pie chart and explain its interpretation.
