RAN-2508000604010121

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B.Com. (Data Science) (Sem. 4) Examination April - 2025

Major - SPSS for Data Science (TH)

Time: 1.30 Hours] **[Total Marks: 35**

સૂચના : / Instructions

(૧) નીચે દર્શાવેલ ☛ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the details of ☛ signs on your answer book

Name of the Examination:
☛ **B.Com. (Data Science) (Sem. 4)**

Name of the Subject :
☛ **Major - SPSS for Data Science (TH)**

Subject Code No.: **2508000604010121**

Seat No.:

Student's Signature

(2) The numbers on the right indicate the marks for that question.
(3) Numerical tables will be provided on request.
(4) A simple calculator may be used.
(5) Common symbols have been used.

Q-1. Answer the following questions (Any Five) **(10)**

1. Explain uses of descriptive statistics.
2. Explain continuous variable with example.
3. What is association in statistics?
4. Uses of chi square test
5. How do you interpret the t-value and significance level in a t-test output in SPSS?
6. Write any 4 uses of time series analysis.
7. Explain the term: Trend

Q-2. A researcher is studying the association between gender (male/female) and preference for a particular brand "A"and "B". **(13)**

(1) Which test in SPSS should be used to analyze this association?

(2) Write Null and Alternative hypothesis.

(3) Explain the step-by-step procedure to conduct the test in SPSS.

(4) How would you interpret the p values of this applied test results?

OR

Q-2. Explain steps of Independent t-test in SPSS **(13)**

Q-3. Write the steps for obtaining a paired t-test in SPSS **(12)**

OR

Q-3. Write a short note on a trend in time series analysis. **(12)**

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