



RAN-2511000903022003

S.Y.B.C.A. (Sem.-III) Examination November - 2025

Data Science & Analytics (Honours)

Major-II Data Wrangling And Eda With Visualization (TH)

(NCF-NEP) (NEW) Theory - Paper 304-07

Time: 1 Hour]
[Total Marks: 25
સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book
- (2) All questions are compulsory.
- (3) Figure to the right indicate full marks.
- (4) Mention your options clearly.

Seat No.:

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Student's Signature

Q.1. (A) MCQ (4 out of 5)
04

1. What is the main goal of data wrangling?
 - a) To store data efficiently
 - b) To convert raw data into a usable format
 - c) To create machine learning models
 - d) To visualize data
2. Which parameter in filter() selects columns based on a list of names?
 - a) items
 - b) like
 - c) regex
 - d) labels
3. Scatter plots are used for
 - a) Single variable distribution
 - b) Two-variable relationship
 - c) Comparing categories
 - d) Showing composition
4. Which of these is an example of a numeric feature?
 - a) Gender
 - b) Age
 - c) City Name
 - d) Country Code
5. In merge(), the parameter to specify join type is
 - a) type
 - b) join_type
 - c) how
 - d) method

Q.1. (B) Short Questions (4 out of 5)
04

1. What is EDA?
2. Give the difference between sort_values() and sort_index()
3. What is Data Wrangling?
4. Explain filter().
5. What is Label Encoding?

- Q.2. (A) Attempt following** **05**
1. Write a note on Data Wrangling process.
- OR**
2. Explain how filtering a DataFrame using query() and filter().
- Q.2. (B) What is feature scaling? Compare Min-Max Scaling and z-score Standardization.** **04**
- Q.3. Write Any Two Out of Three** **08**
- (A) Differentiate between Data Cleaning, Data Pre-processing and Data Wrangling
 - (B) Explain the pivot() function. How does it differ from pivot_table()?
 - (C) Explain Scatter plot and pie plot with example.
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