



RAN-2511000903022004 - E

S.Y.B.C.A. (NCF-NEP) (New) (Sem. - III) Examination December - 2025

Data Science And Analytics (Honours) (Paper - 304-07)

Major - 2 : Data Wrangling And EDA with Visualization (PR)

[Total Marks: 25

સૂચના : / Instructions

- (1) ઉપરોક્ત દર્શાવેલ વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fill up strictly the above details on your answer book.

Seat No.:

--	--	--	--	--	--

Student's Signature

SET - 2

Create dataset sales_data.csv containing the following columns:
[OrderID, CustomerName, Product, Quantity, Price, OrderDate, Region]
Insert atleast 15 records related to query.

- Q. 1. Create Dataframe from Sales_data.csv and perform the basic EDA and Data wrangling Operation. [10]**
1. Rename the columns "Price" To "Unit Price".
 2. Display summary statistics.
 3. Replace all missing value in "Quantity" with the median.
 4. Create derived attribute "Total Amount".
 5. Display total sales (Total Amount) by the region.
- Q. 2. Perform Visualization and other operation. [10]**
1. Display the total sales amount (Quantity * UnitPrice) grouped by Region (rows) and Product (columns).
 2. Create a bar chart showing Average Sales (Total Amount) per Product.
 3. Visualize the distribution of Total Sales (Total Amount) using histogram.
 4. Filter and display all orders placed in "March".
 5. Apply one-hot encoding to the "Region" Column
- Q. 3. Journal & Viva [05]**