

Roll No.

Total No. of Pages : 02

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B.Tech. (AI/DS) (Sem.-6)
DATA ANALYTICS USING R

Subject Code : BTITCS 601-20

M.Code : 93954

Date of Examination : 21-11-2025

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION - A

1. Write briefly :

- a) Discuss Primary Data and Secondary Data.
- b) Who is a Data Scientist?
- c) Mention the main purpose of data analysis?
- d) Define data collection.
- e) What are the data types in R?
- f) Mention the various R Logical Operators.
- g) State the data analysis with Excel.
- h) What are parallel box plots?
- i) Distinguish between string and list.
- j) What do you mean by Descriptive statistics?

SECTION - B

2. Describe the various applications of the data science.
3. Explain in detail about the various data analysis techniques.
4. Explain in detail about data frame and arrays with example R code.
5. **Give example and define the following functions of R :**
 - a) Read()
 - b) Head()
 - c) Summary()
6. What are the different ways to read the dataset? How to create and rename a variable in R?

SECTION - C

7. Explain in detail about the various data analysis techniques.
8. Explain about the various statistical functions and math functions in R.
9. When will to use a histogram and when to use a bar chart in R ? Explain with an example by leveraging R package.

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.