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School of Business

Bachelor of Business Administration in Business Analytics
Semester End Examination - Nov 2023

Duration : 180 Minutes
Max Marks : 100

Sem V - D1UF502T - R Programming

General Instructions

Answer to the specific question asked

Draw neat, labelled diagrams wherever necessary

Approved data hand books are allowed subject to verification by the Invigilator

- 1) Why is statistical analysis important in the field of business? K1 (2)
- 2) Briefly discuss about RStudio. K2 (4)
- 3) Discuss the role of data types in R programming with example. K2 (6)
- 4) Interpret how can you add annotations, such as text or arrows, to a ggplot2 plot? K3 (9)
- 5) Demonstrate what are box plots, and how can you create them in ggplot2? K3 (9)
- 6) Write R program to perform the following operations a. Add a new column in a given data frame. b. Add new row(s) to an existing data frame. c. Drop column(s) by name from a given data frame. K5 (10)
- 7) i) Create a Dataframe to upload the student data (atleast 5 records). K4 (12)
ii) Upload the data from the dataframe to a file and read the data from the file.
- 8) Demonstrate the following list operations in R programming using suitable programs A) List creation B) Access elements from a list. C) Replace an element in a list. K5 (15)
- 9) Appraise the applications of R Programming in business. K5 (15)
- 10) Appraise the purpose of conducting a hypothesis test for the overall model (ANOVA) in regression analysis. K6 (18)