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PRESIDENCY UNIVERSITY

SCHOOL OF COMMERCE MAKE UP EXAMINATION – JAN. 2023

Course Code: MGI 239
Course Name: R for Business Analytics
Program: BBA (Business Analytics)

Date: 20-01-2023
Time: 1.00PM – 4.00 PM
Max. Marks: 100
Weightage: 50%

Instruction:

Read all questions carefully and answer accordingly

PART A

Answer all the ten questions

(10 x 2 = 20)

1. What will be the output of the following R code? C.O.No. 2 [Comprehension]

```
> x <- 6  
> class(x)
```

 - a. "Integer"
 - b. "Numeric"
 - c. "Real"
 - d. "Imaginary"
2. What is "R" C.O.No. 2 [Comprehension]
 - a. Application Programming
 - b. Programming Language
 - c. Statistics Programming
 - d. Package
3. Find the following type of vector? C.O.No. 2 [Comprehension]

```
a <- c(1,2,5.3,6,-2,4)
```

 - a. Numeric
 - b. Character
 - c. Integer
 - d. Logical
4. What will be the output of the following R program? C.O.No. 1 [Comprehension]

```
r <- 0:10  
r[2]
```

 - a. 3
 - b. 4
 - c. 1
 - d. 0
5. In R language, a vector is defined that it can only contain objects of the _____ C.O.No. 2 [Comprehension]
 - a. Same class
 - b. Different class
 - c. Similar class
 - d. Any class

6. What is NaN called? C.O.No. 1 [Comprehension]
- Not a Number
 - Not a Numeric
 - Number and Number
 - Number a Numeric
7. A _____ is an R-Object which can contain many different types of elements inside it. C.O.No. 2 [Comprehension]
- Matrix
 - Vector
 - Lists
 - Functions
8. Which function cannot be used to import csv file in R? C.O.No. 2 [Comprehension]
- read.table()
 - read.csv()
 - read.excel()
 - read.txt()
9. Which function is used for loading packages? C.O.No. 3 [Comprehension]
- Library
 - Interface
 - Loader
 - Linker
10. _____ evaluate the cumulative distribution function for a Normal distribution. C.O.No. 4 [Comprehension]
- dnorm
 - rnorm
 - pnorm
 - rpois

PART B

Answer all the four questions

(4 x 10 = 40)

11. What are the data structures in R programme? C.O.No. 2 [Comprehension]
12. How do you install a package in R? C.O.No. 3 [Comprehension]
13. In R programming, how missing values are represented? C.O.No. 3 [Comprehension]
14. Write the syntax of building bar chart in R and define 3 bar chart parameters. C.O.No. 3 [Comprehension]

PART C

Answer all the five questions

(2 x 20 = 40)

15. Answer all the questions:

- a. Write a programme using “Else If” Statement to find greater number among A and B:
- b. Define and Print a Function
- c. Create a List and print the List Values (Use Charter/String variable)
- d. Write the syntax for creating a Pie Chart and Display the Pie Chart
- e. Write a program for reverse the given string [Ex. ‘SUMMER’, Output: ‘REMMUS’]

16. Write the Syntaxes working with a Dataset: [Dataset File Name: EmployMaster.xls]

- i. Read excel file
- ii. Print EmployMaster Data
- iii. Print Number of Rows
- iv. Print all the Column headers
- v. Add new column
- vi. Delete a Column
- vii. Rename a Column
- viii. Print number of missing values in the Dataset
- ix. Find extract rows that match where Gender is “Female” in the Dataset
- x. Delete all missing/null Values