

**(FOR THE CANDIDATES ADMITTED
DURING THE ACADEMIC YEAR 2020 ONLY)**

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20 UCS 622

REG.NO.

**N.G.M.COLLEGE(AUTONOMOUS): POLLACHI
END-OF-SEMESTER EXAMINATIONS: MAY-2023**

B.Sc.- COMPUTER SICNECE

VI SEMESTER

MAXIMUM MARKS : 70
TIME : 3 HOURS

PART-III

R PROGRAMMING

SECTION-A **(10 X 1 = 10 MARKS)**

ANSWER THE FOLLOWING QUESTIONS.

MULTIPLE CHOICE QUESTIONS.

(K1)

SHORT ANSWERS (K2)

6. What are scripts in R?.
7. What is the difference between array and factor?.
8. How to use string in R Programming?.
9. Is median class and mode class always same?.
10. Can you make charts in R?.

(CONT'D....2)

SECTION – B**(5 X4 = 20 MARKS)****ANSWER EITHER (a) OR (b) IN EACH OF THE FOLLOWING QUESTIONS: (K3)**

11. a) Write an R program to take input from the user (name and age) and display the values. Also print the version of R installation.
 (OR)
 b) Create a GUI for a function that adds or multiplies two numbers x and y.

12. a) Write an R program to create a vector which contains 10 random integer values between 50 and +50..
 (OR)
 b) Write an R program to find the factors of a given number..

13. a) A Commercial Bank has introduced an Incentive policy of giving Bonus to all its Deposit Holders.
 The Policy is as follows:
 (i) A Bonus of 2% of the Balance held on 31st is given to everyone of the irrespective balances.
 (ii) A Bonus of 5% is given to the Female Account Holders, if Balance is more than Rs.5000--
 Write an R Programming using nested if .
 (OR)
 b) Calculate Sales Commission of sales representative:
 (i) if Sales <=500 then no Commission
 (ii) if Sales > 500 and Sales <= 5000 then Commission = 10% of Sales
 (iii) if Sales >5000 then Commission = 500 + 8% of Sales –
 Write a R Programming Using else if ladder .

14. a) Describe in brief different ways to read or import a text file into a string variable with example.
 (OR)
 b) Write an R Program to read a CSV from a URL.

15. a) Construct a simple example of add notch to Box of Boxplot and change Color or Boxplot.
 (OR)
 b) Write an R Program to display Histogram with added Parameters and return value.

SECTION – C**(4 X 10 = 40 MARKS)****ANSWER ANY FOUR OUT OF SIX QUESTIONS****(16th QUESTION IS COMPULSORY AND ANSWER ANY THREE QUESTIONS)
 (FROM Qn. No : 17 to 21)****(K4 (or) K5)**

16. Analyze the various types of Comments with example Program.
 17. Summarize the most popular 5 Code editor for R programming Language with example.
 18. Write an R program to create a Dataframes which contain details of 5 employees and display the details..
 19. Point out in brief about various Loop Statements in R Programming with example code.
 20. Determine in detail working with XML Files in R Programming.
 21. Discuss in detail Scatter Plots using ggplot2 in R Programming with example.
