UNIVERSITY OF NORTH BENGAL

B.Sc. Sec 1st Semester Examination, 2023

USTASEC11001-STATISTICS

R-PROGRAMMING: LABEL-1

Time Allotted: 2 Hours   Full Marks: 40

The figures in the margin indicate full marks.

GROUP-A

1. Answer any *five* questions from the following: 1×5 = 5
    (a) What is the use of help function in R?
    (b) Who developed R-language?
    (c) Where can I find my R packages?
    (d) How many packages are available in R?
    (e) What is getwd()?
    (f) Where R-language developed?
    (g) What is setwd()?
    (h) What do you mean by dir()?

GROUP-B

2. Answer any *three* questions from the following: 5×3 = 15
    (a) Write the advantages and disadvantages of R.
    (b) Write a short note on R.
    (c) What is the syntax of paste()? Explain by suitable example.
    (d) What is seq() function? Write the syntax of seq(). Explain by example.
    (e) Write down a R-programme code of sum of two vectors. How do you read a csv file?

GROUP-C

3. Answer any *two* questions from the following: 10×2 = 20

    (a) (i) Write about all summary commands in R.   4

        (ii) What is product, min and max? Explain with example. Write R functions used for this purpose.   2+2+2

    (b) Write about bar plot and histogram with examples. Explain its importance. Write R-code for drawing bar plot and histogram for suitable data.   3+3+4

    (c) (i) Write a short note on mean, median and mode. Write R-code for mean, median and mode for suitable example.   6

        (ii) What is the difference between matrix and data frames in R?   4

    (d) Explain how you can start the R commander GUI? In R how can you import the data? What is the function used for adding datasets in R?   4+4+2

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