



M.Sc. II Semester Degree Examination, September/October - 2022
MATHEMATICS
21MAT2S2TP SEC 2 : R - Programming

Time : 1 Hour

Maximum Marks : 30

Note : Answer **all** the questions. Each questions carry **one** mark.

1. In 1991, R was developed by _____ in the department of Statistics at the University of Auckland.
(A) Guido Van Rossum
(B) Ross Ihaka and Robert Gentleman
(C) Stephen Wolfram
(D) John Todd
2. R runs on the _____ operating system.
(A) Linux
(B) Windows
(C) Ubuntu
(D) All the above
3. Which of the following command is used to print an object "x" in R ?
(A) Printf(x)
(B) Print(x)
(C) Print X
(D) Print[x]
4. What will be the output of the following R program ?
r = 0:10
r [8]
(A) 8
(B) 9
(C) 7
(D) 6
5. Which of the following operator is used to create integer sequence ?
(A) :
(B) ;
(C) !
(D) ~
6. In R language, a vector is defined that it can only contain object of the _____.
(A) Different class
(B) Any class
(C) Same class
(D) Smaller class
7. How can we denote 'undefined value' in R language ?
(A) Inf
(B) Sup
(C) Und
(D) NaN
8. Which of the following is not a basic datatype ?
(A) Numeric
(B) Data frame
(C) Integer
(D) Character



9. What will be the output of the following R code ?
V <- C(TRUE, 2)
(A) [1] "TRUE" "2" (B) [1] "TRUE" 2
(C) [1]"O" "2" (D) [1] ⊥ 2
10. What is the function used to set column names for a matrix ?
(A) Names() (B) Col. names()
(C) Colnames() (D) None of the above
11. What is the length of b ?
b = 2 : 7
(A) 7 (B) 6 (C) 5 (D) 2
12. What are the type of(x) and mode(x) in the following R syntax ?
x <- 1 : 3
(A) Numeric, Integer (B) Integer, Numeric
(C) Integer, Integer (D) Numeric, Numeric
13. Full form of GUI is _____.
(A) Guided User Interface (B) Graphical User Interface
(C) Guided Used Interface (D) Graphical Used Interface
14. What will be the output of the following R code ?
X <- 6L
Class(X)
(A) "integer" (B) "numeric" (C) "logical" (D) "real"
15. What will be the output of the following R code ?
sqrt(-17)
(A) 4.123 (B) 4.112 (C) 4.02 (D) NaN
16. Which of the following statement would print "0" "1" "2" "3" "4" "5" "6" for the following R code ?
x = 0 : 6
(A) as.character(x) (B) as.logical(x)
(C) as.numeric(x) (D) as.num(x)
17. A _____ is an R-object which can contain many different types of elements inside it.
(A) Vector (B) Matrix (C) Lists (D) Functions
18. R functionality is divided into a number of _____.
(A) Functions (B) Domains (C) Classes (D) Packages



19. Which package contains most fundamental functions to run R ?
(A) root (B) child (C) parent (D) base
20. Which of the following is used for statistical analysis in R language ?
(A) R Studio (B) K Studio (C) S Studio (D) Studio
21. Full form of NaN is _____.
(A) Not a Numeric (B) Not a Number
(C) Numeric and Number (D) Number and Numeric
22. Which of the following statement is an alternative to ? solve ?
(A) print(solve) (B) bind(solve)
(C) help(solve) (D) matrix(solve)
23. R language is a dialect of which of the following languages ?
(A) C (B) MATLAB (C) S (D) SAS
24. In R language, variables can be deleted by using the _____ function.
(A) delet() (B) de() (C) remov() (D) rm()
25. Which of the following is not an assignment operator in R language?
(A) <- (B) = (C) == (D) <<-
26. Which of the following is not a built-in function in R language ?
(A) diag() (B) paste() (C) tran() (D) sqrt()
27. In R programming, files containing R scripts ends with extension _____.
(A) .Py (B) .R (C) .RP (D) .SP
28. What will be the output of the following R function ?
(A) Prints today's date (B) Prints some date
(C) Prints present date and time (D) Error
29. What will be the output of the following R code ?
paste ("Everybody", "is", "a", "warrior")
(A) "Everybody is a warrior"
(B) Everybody is a warrior
(C) "Everybody", "is" "a" "warrior"
(D) None of these
30. What will be the output of the following R code ?
X = matrix (nrow=2, ncol=3)
length(x)
(A) 2 (B) 3 (C) 5 (D) 6

