1212N946   Candidate's Seat No :_____

IMBA (BI/IB/APR) Sem.-7 Examination

BI

FDM

Time : 1-30 Hours]   December-2024   [Max. Marks : 70

Instructions :(1) This paper contains **Thirty Five** questions.
(2) Each Question is of 2 Marks.
(3) Each Question is of multiple choices.
(4) All questions are compulsory.

Marks

Q.1   Which of the following function is used to install packages in R?   **2**
   A. pip
   B. install.packages()
   C. import
   D. #include<>

Q.2   Which command will give output as last few rows of dataframe "df"?   **2**
   A. head(df)
   B. str(df)
   C. tail(df)
   D. df

Q.3   What is the use of "is.vector()" function?   **2**
   A. To convert object into vector
   B. To convert object into list
   C. To check object is vector or not
   D. To check object is list or not

Q.4   What is the use of "as.list()" function?   **2**
   A. To convert object into vector
   B. To convert object into list
   C. To check object is vector or not
   D. To check object is list or not

Q.5   Select the appropriate repository to download R packages.   **2**
   A. CRAN
   B. stdio.h
   C. matplotlib
   D. pip

Q.6   If we add 5 to NA then result will be ____   **2**
   A. NA
   B. 5
   C. error
   D. 0

1

(P.T.c)

Q.7 What will be the outcome of command: 10 ** 2   2
    A. 10002
    B. 20
    C. 100
    D. 5

Q.8 let say V1 is the vector then what will be the result of command: **V1[-c(2)]**   2
    A. it will subtract 2 from all the members of vector
    B. it will complement sign on second element
    C. it will make second element negative
    D. it will remove second element of vector

Q.9 Which command is used to set working directory?   2
    A. getwd()
    B. setwd()
    C. fixwd()
    D. dir()

Q.10 What following command do "**rm(list=ls())**" ?   2
    A. It clear the workspace/environment
    B. It will list all the objects in workspace
    C. It will return current working directoty
    D. It will clear console

Q.11 How may attributes of the data frame we can see from the following code.   2
**ggplot(diamonds, aes(x = carat, y = price))+ geom_point(aes(color = color))
+ facet_grid(cut ~ clarity)** ?
    A. 1
    B. 2
    C. 5
    D. 10

Q.12 Which is the homogeneous datastructure?   2
    A. list
    B. dataframe
    C. library
    D. vector

Q.13 A(n) _____is a visual property of the objects in your plot and includes   2
things like the size, the shape, or the color of your points.
    A. mapping
    B. attribute
    C. aesthetic
    D. pictograph

Q.14 The function _____adds a layer of points to your plot, which creates a   2
scatterplot.
    A. geom_dotplot()
    B. geom_scatter()
    C. geom_point()
    D. geom_plot()

Q.15 Once you have installed a package, you can load it with the _____function. 2
    A. library()
    B. set()
    C. import()
    D. load()

Q.16 Can we set default argument in R while defining a function? 2
    A. only one default argument is possible
    B. No
    C. Yes
    D. none of these

Q.17 In which package diamond dataframe can be found? 2
    A. shiny
    B. ggplot2
    C. dplyr
    D. stdio

Q.18 Which joined will be performed by code: **merge(x = df1, y = df2, by = "StudentId", all.x = TRUE)** ? 2
    A. Left join
    B. Right Join
    C. Cross join
    D. None of these

Q.19 Which function is used to perform joint operation in R? 2
    A. merge
    B. concatnate
    C. joins
    D. attach

Q.20 Suppose **x = c(2,4,6,8,10)** then which one of the following is the correct output of **ifelse(x<6,2*x,10*x)**? 2
    A. 20 40 12 16 20
    B. 20 40 60 80 100
    C. 4 8 12 16 20
    D. 4 8 60 80 100

Q.21 Which IDE is widely used for programming in R? 2
    A. Rstudio
    B. spider
    C. python
    D. notepad

Q.22 what will be the output of the command: **names(df)**? 2
    A. it will call the object whose name is df
    B. It will return the column names of the data frame df
    C. it will delete the object df
    D. none of these

(P.T.O)

Q.23 which function is used to read "*.csv" file?   **2**
- A. read.csv2()
- B. read.text()
- C. read.table()
- D. plot()

Q.24 which of the command is used to view structe of data frame in R?   **2**
- A. structure()
- B. str()
- C. summary()
- D. fivesum()

Q.25 What will be the output of the following command: **sum(20>10)** ?   **2**
- A. 20
- B. 10
- C. 0
- D. 1

Q.26 What will be the output of the following code: **0/0** ?   **2**
- A. NULL
- B. NA
- C. NaN
- D. 1

Q.27 What will the output of the following code: **rep(1:3,each=3)** ?   **2**
- A. 1 2 3 1 2 3 1 2 3
- B. 1 1 1 2 2 2 3 3 3
- C. 1 2 2 3 3 3
- D. 1 3 3 3

Q.28 Which keyword is used to terminate loop forcefully?   **2**
- A. Terminate
- B. Kill
- C. End
- D. break

Q.29 If vector **v1** is declared as **v1 <- c(3,5,7)** then what will the output of **v1[5]** ?   **2**
- A. 5
- B. 2
- C. NA
- D. Error

Q.30 How is a data frame column named Age selected from dataframe named data?   **2**
- A. data$1
- B. data[, "Age"]
- C. data["Age",]
- D. data[1,]

Q.31 In R, how do you create a data frame named **my_df** with columns Name and Age?   **2**
- A. my_df<- data.frame(Name = c("Alice", "Bob"), Age = c(25, 30))
- B. create_df(Name = c("Alice", "Bob"), Age = c(25, 30))
- C. df(Name = c("Alice", "Bob"), Age = c(25, 30))
- D. data_frame(Name = c("Alice", "Bob"), Age = c(25, 30))

4

Q.32 In R, what is the purpose of the **table()** function?   **2**
    A. Display a table of values
    B. Generate a summary of data using tables
    C. Count the number of rows and columns in a data frame
    D. Create a contingency table from factors

Q.33 A _____ is an R-object which can contain many different types of   **2**
elements inside it.
    A. Vector
    B. Lists
    C. Matrix
    D. Functions

Q.34 Accessing elements is achieved through a process called _____   **2**
    A. Indexing
    B. Outdexing
    C. Highlighting
    D. Scrapping

Q.35 What will be the output of following R code: **as.logical(c("A", "B", "C")?**   **2**
    A. a b c
    B. NA NANA
    C. 0 1 2
    D. 6 8 9

_____