MBA BUSINESS ANALYTICS, VISTAS

UNIVERSITY LAB EXAMINATION

ANSWER ALL THE QUESTIONS (60 MARKS)

REGISTER NUMBER	23316101	NAME	ABIRAMI M
SUBJECT CODE	23PMBN12	SUBJECT NAME	DATA VISUALIZATION USING R AND PYTHON (IBM)
DEGREE/BRANCH	MBA BUSINESS ANALYTICS	TIME & DATE	09.30 AM & 05.12.23

To create different types of graphs for user inputs.

a) Line graph

b) Line Graph with style

c)Bar Graph (Horizontal and vertical)

d) Histogram

e) Scatter Plot.

Aim, algorithm and Explanation (25)	Output & RESULT (15), Viva (20)	Total (60)

MBA BUSINESS ANALYTICS, VISTAS
UNIVERSITY LAB EXAMINATION

ANSWER ALL THE QUESTIONS (60 MARKS)

REGISTER NUMBER	23316102	NAME	AJAY.G
SUBJECT CODE	23PMBN12	SUBJECT NAME	DATA VISUALIZATION USING R AND PYTHON (IBM)
DEGREE/BRANCH	MBA BUSINESS ANALYTICS	TIME & DATE	09.30 AM & 05.12.23

To Do the data manipulation operations for the iris and mtcars dataset using the dplyr package and obtain the results for the following functions.

i) filter ii) select iii) arrange iv) summarize v) mutate

Aim, algorithm and Explanation (25)	Output & RESULT (15), Viva (20)	Total (60)

MBA BUSINESS ANALYTICS, VISTAS
UNIVERSITY LAB EXAMINATION

ANSWER ALL THE QUESTIONS (60 MARKS)

REGISTER NUMBER	23316103	NAME	ARAVIND J
SUBJECT CODE	23PMBN12	SUBJECT NAME	DATA VISUALIZATION USING R AND PYTHON (IBM)
DEGREE/BRANCH	MBA BUSINESS ANALYTICS	TIME & DATE	09.30 AM & 05.12.23

To Create a data frame and do the following operations using tidyr package.

i)gather ii) spread iii) separate iv) unite

Aim, algorithm and Explanation (25)	Output & RESULT (15), Viva (20)	Total (60)

MBA BUSINESS ANALYTICS, VISTAS

UNIVERSITY LAB EXAMINATION

ANSWER ALL THE QUESTIONS (60 MARKS)

REGISTER NUMBER	23316104	NAME	ARUL SELVAN M
SUBJECT CODE	23PMBN12	SUBJECT NAME	DATA VISUALIZATION USING R AND PYTHON (IBM)
DEGREE/BRANCH	MBA BUSINESS ANALYTICS	TIME & DATE	09.30 AM & 05.12.23

To Do the data manipulation operations for the iris and air quality dataset using data. table package and obtain the results for the following functions.

a. Select a subset row
b. Select a column with particular values
c. Select columns with multiple values
d. Select a column to return a vector
e. Select multiple columns
f. Returns the sum and standard deviation
g. Sum of selected columns

Aim, algorithm and Explanation (25)	Output & RESULT (15), Viva (20)	Total (60)

MBA BUSINESS ANALYTICS, VISTAS UNIVERSITY LAB EXAMINATION			
ANSWER ALL THE QUESTIONS (60 MARKS)			
REGISTER NUMBER	23316105	NAME	ARUN KUMAR KR
SUBJECT CODE	23PMBN12	SUBJECT NAME	DATA VISUALIZATION USING R AND PYTHON (IBM)
DEGREE/BRANCH	MBA BUSINESS ANALYTICS	TIME & DATE	09.30 AM & 05.12.23

To do the different visualization types for air quality data set using the ggplot package in R.

a. Line graph
b. Bar graph
c. Histogram
d. Scatter plot
e. Pie chart

Aim, algorithm and Explanation (25)	Output & RESULT (15), Viva (20)	Total (60)

MBA BUSINESS ANALYTICS, VISTAS UNIVERSITY LAB EXAMINATION			
ANSWER ALL THE QUESTIONS (60 MARKS)			
REGISTER NUMBER	23316106	NAME	GOKUL K
SUBJECT CODE	23PMBN12	SUBJECT NAME	DATA VISUALIZATION USING R AND PYTHON (IBM)
DEGREE/BRANCH	MBA BUSINESS ANALYTICS	TIME & DATE	09.30 AM & 05.12.23

To write a Program to create maps with markers and Chropleth maps with Folium.

Aim, algorithm and Explanation (25)	Output & RESULT (15), Viva (20)	Total (60)

MBA BUSINESS ANALYTICS, VISTAS UNIVERSITY LAB EXAMINATION			
ANSWER ALL THE QUESTIONS (60 MARKS)			
REGISTER NUMBER	23316107	NAME	JANAKI MAKESH
SUBJECT CODE	23PMBN12	SUBJECT NAME	DATA VISUALIZATION USING R AND PYTHON (IBM)
DEGREE/BRANCH	MBA BUSINESS ANALYTICS	TIME & DATE	09.30 AM & 05.12.23

To create different types of graphs for user inputs.

a) Line graph b) Line Graph with style

c)Bar Graph (Horizontal and vertical) d) Histogram

e) Scatter Plot.

Aim, algorithm and Explanation (25)	Output & RESULT (15), Viva (20)	Total (60)

MBA BUSINESS ANALYTICS, VISTAS

UNIVERSITY LAB EXAMINATION

ANSWER ALL THE QUESTIONS (60 MARKS)

REGISTER NUMBER	23316108	NAME	KARAN KUMAR R
SUBJECT CODE	23PMBN12	SUBJECT NAME	DATA VISUALIZATION USING R AND PYTHON (IBM)
DEGREE/BRANCH	MBA BUSINESS ANALYTICS	TIME & DATE	09.30 AM & 05.12.23

To Do the data manipulation operations for the iris and mtcars dataset using the dplyr package and obtain the results for the following functions.

i)filter ii) select iii) arrange iv) summarize v) mutate

Aim, algorithm and Explanation (25)	Output & RESULT (15), Viva (20)	Total (60)

MBA BUSINESS ANALYTICS, VISTAS

UNIVERSITY LAB EXAMINATION

ANSWER ALL THE QUESTIONS (60 MARKS)

REGISTER NUMBER	23316109	NAME	LOKESH KUMAR D H
SUBJECT CODE	23PMBN12	SUBJECT NAME	DATA VISUALIZATION USING R AND PYTHON (IBM)
DEGREE/BRANCH	MBA BUSINESS ANALYTICS	TIME & DATE	09.30 AM & 05.12.23

To Create a data frame and do the following operations using tidyr package.

i)gather ii) spread iii) separate iv) unite

Aim, algorithm and Explanation (25)	Output & RESULT (15), Viva (20)	Total (60)

MBA BUSINESS ANALYTICS, VISTAS

UNIVERSITY LAB EXAMINATION

ANSWER ALL THE QUESTIONS (60 MARKS)

REGISTER NUMBER	23316110	NAME	MERLIN JOSEPHINA E
SUBJECT CODE	23PMBN12	SUBJECT NAME	DATA VISUALIZATION USING R AND PYTHON (IBM)
DEGREE/BRANCH	MBA BUSINESS ANALYTICS	TIME & DATE	09.30 AM & 05.12.23

To Do the data manipulation operations for the iris and air quality dataset using data. table package and obtain the results for the following functions.

a. Select a subset row
b. Select a column with particular values
c. Select columns with multiple values
d. Select a column to return a vector
e. Select multiple columns
f. Returns the sum and standard deviation
g. Sum of selected columns

Aim, algor,ithm and Explanation (25)	Output & RESULT (15), Viva (20)	Total (60)

MBA BUSINESS ANALYTICS, VISTAS

UNIVERSITY LAB EXAMINATION

ANSWER ALL THE QUESTIONS (60 MARKS)

REGISTER NUMBER	23316111	NAME	MOHANARAM A
SUBJECT CODE	23PMBN12	SUBJECT NAME	DATA VISUALIZATION USING R AND PYTHON (IBM)
DEGREE/BRANCH	MBA BUSINESS ANALYTICS	TIME & DATE	09.30 AM & 05.12.23

5. To do the different visualization types for air quality data set using the ggplot package in R.

a. Line graph
b. Bar graph
c. Histogram
d. Scatter plot
e. Pie chart

Aim, algorithm and Explanation (25)	Output & RESULT (15), Viva (20)	Total (60)

MBA BUSINESS ANALYTICS, VISTAS
UNIVERSITY LAB EXAMINATION

ANSWER ALL THE QUESTIONS (60 MARKS)

REGISTER NUMBER	23316112	NAME	NAVAGEEVAN G
SUBJECT CODE	23PMBN12	SUBJECT NAME	DATA VISUALIZATION USING R AND PYTHON (IBM)
DEGREE/BRANCH	MBA BUSINESS ANALYTICS	TIME & DATE	09.30 AM & 05.12.23

To write a Program to create maps with markers and Chropleth maps with Folium.

Aim, algorithm and Explanation (25)	Output & RESULT (15), Viva (20)	Total (60)

MBA BUSINESS ANALYTICS, VISTAS
UNIVERSITY LAB EXAMINATION

ANSWER ALL THE QUESTIONS (60 MARKS)

REGISTER NUMBER	23316113	NAME	NAVEEN VIKASH R
SUBJECT CODE	23PMBN12	SUBJECT NAME	DATA VISUALIZATION USING R AND PYTHON (IBM)
DEGREE/BRANCH	MBA BUSINESS ANALYTICS	TIME & DATE	09.30 AM & 05.12.23

To create different types of graphs for user inputs.

a) Line graph b) Line Graph with style

c)Bar Graph (Horizontal and vertical) d) Histogram

e) Scatter Plot.

Aim, algorithm and Explanation (25)	Output & RESULT (15), Viva (20)	Total (60)

MBA BUSINESS ANALYTICS, VISTAS

UNIVERSITY LAB EXAMINATION

ANSWER ALL THE QUESTIONS (60 MARKS)

REGISTER NUMBER	23316114	NAME	PARANTHAMAN S
SUBJECT CODE	23PMBN12	SUBJECT NAME	DATA VISUALIZATION USING R AND PYTHON (IBM)
DEGREE/BRANCH	MBA BUSINESS ANALYTICS	TIME & DATE	09.30 AM & 05.12.23

To Do the data manipulation operations for the iris and mtcars dataset using the dplyr package and obtain the results for the following functions.

i)filter ii) select iii) arrange iv) summarize v) mutate

Aim, algorithm and Explanation (25)	Output & RESULT (15), Viva (20)	Total (60)

MBA BUSINESS ANALYTICS, VISTAS UNIVERSITY LAB EXAMINATION			
ANSWER ALL THE QUESTIONS (60 MARKS)			
REGISTER NUMBER	23316115	NAME	PAVITHRA S
SUBJECT CODE	23PMBN12	SUBJECT NAME	DATA VISUALIZATION USING R AND PYTHON (IBM)
DEGREE/BRANCH	MBA BUSINESS ANALYTICS	TIME & DATE	09.30 AM & 05.12.23

To Create a data frame and do the following operations using tidyr package.

i)gather ii) spread iii) separate iv) unite

Aim, algorithm and Explanation (25)	Output & RESULT (15), Viva (20)	Total (60)

MBA BUSINESS ANALYTICS, VISTAS UNIVERSITY LAB EXAMINATION			
ANSWER ALL THE QUESTIONS (60 MARKS)			
REGISTER NUMBER	23316116	NAME	PRAVEENA B
SUBJECT CODE	23PMBN12	SUBJECT NAME	DATA VISUALIZATION USING R AND PYTHON (IBM)
DEGREE/BRANCH	MBA BUSINESS ANALYTICS	TIME & DATE	09.30 AM & 05.12.23

To Do the data manipulation operations for the iris and air quality dataset using data. table package and obtain the results for the following functions.

a. Select a subset row
b. Select a column with particular values
c. Select columns with multiple values
d. Select a column to return a vector
e. Select multiple columns
f. Returns the sum and standard deviation
g. Sum of selected columns

Aim, algorithm and Explanation (25)	Output & RESULT (15), Viva (20)	Total (60)

MBA BUSINESS ANALYTICS, VISTAS

UNIVERSITY LAB EXAMINATION

ANSWER ALL THE QUESTIONS (60 MARKS)

REGISTER NUMBER	23316117	NAME	RAGUL D
SUBJECT CODE	23PMBN12	SUBJECT NAME	DATA VISUALIZATION USING R AND PYTHON (IBM)
DEGREE/BRANCH	MBA BUSINESS ANALYTICS	TIME & DATE	09.30 AM & 05.12.23

To do the different visualization types for air quality data set using the ggplot package in R.

a. Line graph
b. Bar graph
c. Histogram
d. Scatter plot
e. Pie chart

Aim, algorithm and Explanation (25)	Output & RESULT (15), Viva (20)	Total (60)

MBA BUSINESS ANALYTICS, VISTAS

UNIVERSITY LAB EXAMINATION

ANSWER ALL THE QUESTIONS (60 MARKS)

REGISTER NUMBER	23316118	NAME	RAJKUMAR S
SUBJECT CODE	23PMBN12	SUBJECT NAME	DATA VISUALIZATION USING R AND PYTHON (IBM)
DEGREE/BRANCH	MBA BUSINESS ANALYTICS	TIME & DATE	09.30 AM & 05.12.23

To write a Program to create maps with markers and Chropleth maps with Folium.

Aim, algorithm and Explanation (25)	Output & RESULT (15), Viva (20)	Total (60)

MBA BUSINESS ANALYTICS, VISTAS
UNIVERSITY LAB EXAMINATION

ANSWER ALL THE QUESTIONS (60 MARKS)

REGISTER NUMBER	23316119	NAME	SANJEEVIRAM R P
SUBJECT CODE	23PMBN12	SUBJECT NAME	DATA VISUALIZATION USING R AND PYTHON (IBM)
DEGREE/BRANCH	MBA BUSINESS ANALYTICS	TIME & DATE	09.30 AM & 05.12.23

To create different types of graphs for user inputs.

a) Line graph b) Line Graph with style

c)Bar Graph (Horizontal and vertical) d) Histogram

e) Scatter Plot.

Aim, algorithm and Explanation (25)	Output & RESULT (15), Viva (20)	Total (60)

MBA BUSINESS ANALYTICS, VISTAS
UNIVERSITY LAB EXAMINATION

ANSWER ALL THE QUESTIONS (60 MARKS)

REGISTER NUMBER	23316120	NAME	SATHISH KUMAR K
SUBJECT CODE	23PMBN12	SUBJECT NAME	DATA VISUALIZATION USING R AND PYTHON (IBM)
DEGREE/BRANCH	MBA BUSINESS ANALYTICS	TIME & DATE	09.30 AM & 05.12.23

To Do the data manipulation operations for the iris and mtcars dataset using the dplyr package and obtain the results for the following functions.

i)filter ii) select iii) arrange iv) summarize v) mutate

Aim, algorithm, and Explanation (25)	Output & RESULT (15), Viva (20)	Total (60)

MBA BUSINESS ANALYTICS, VISTAS
UNIVERSITY LAB EXAMINATION

ANSWER ALL THE QUESTIONS (60 MARKS)

REGISTER NUMBER	23316121	NAME	SHARON CARMEL L
SUBJECT CODE	23PMBN12	SUBJECT NAME	DATA VISUALIZATION USING R AND PYTHON (IBM)
DEGREE/BRANCH	MBA BUSINESS ANALYTICS	TIME & DATE	09.30 AM & 05.12.23

To Create a data frame and do the following operations using tidyr package.

i)gather ii) spread iii) separate iv) unite

Aim, algorithm and Explanation (25)	Output & RESULT (15), Viva (20)	Total (60)

MBA BUSINESS ANALYTICS, VISTAS
UNIVERSITY LAB EXAMINATION

ANSWER ALL THE QUESTIONS (60 MARKS)

REGISTER NUMBER	23316122	NAME	SUWEKA SUYAMBURAJ
SUBJECT CODE	23PMBN12	SUBJECT NAME	DATA VISUALIZATION USING R AND PYTHON (IBM)
DEGREE/BRANCH	MBA BUSINESS ANALYTICS	TIME & DATE	09.30 AM & 05.12.23

To Do the data manipulation operations for the iris and air quality dataset using data. table package and obtain the results for the following functions.

a. Select a subset row
b. Select a column with particular values
c. Select columns with multiple values
d. Select a column to return a vector
e. Select multiple columns
f. Returns the sum and standard deviation
g. Sum of selected columns

Aim, algorithm and Explanation (25)	Output & RESULT (15), Viva (20)	Total (60)

MBA BUSINESS ANALYTICS, VISTAS

UNIVERSITY LAB EXAMINATION

ANSWER ALL THE QUESTIONS (60 MARKS)

REGISTER NUMBER	23316123	NAME	TARIQ ANWAR A
SUBJECT CODE	23PMBN12	SUBJECT NAME	DATA VISUALIZATION USING R AND PYTHON (IBM)
DEGREE/BRANCH	MBA BUSINESS ANALYTICS	TIME & DATE	09.30 AM & 05.12.23

To do the different visualization types for air quality data set using the ggplot package in R.

a. Line graph
b. Bar graph
c. Histogram
d. Scatter plot
e. Pie chart

Aim, algorithm and Explanation (25)	Output & RESULT (15), Viva (20)	Total (60)

MBA BUSINESS ANALYTICS, VISTAS UNIVERSITY LAB EXAMINATION			
ANSWER ALL THE QUESTIONS (60 MARKS)			
REGISTER NUMBER	23316124	NAME	VASANTHA LAXMI S
SUBJECT CODE	23PMBN12	SUBJECT NAME	DATA VISUALIZATION USING R AND PYTHON (IBM)
DEGREE/BRANCH	MBA BUSINESS ANALYTICS	TIME & DATE	09.30 AM & 05.12.23

To write a Program to create maps with markers and Chropleth maps with Folium.

Aim, algorithm and Explanation (25)	Output & RESULT (15), Viva (20)	Total (60)

MBA BUSINESS ANALYTICS, VISTAS
UNIVERSITY LAB EXAMINATION

ANSWER ALL THE QUESTIONS (60 MARKS)

REGISTER NUMBER	23316125	NAME	ARUN RAJ M
SUBJECT CODE	23PMBN12	SUBJECT NAME	DATA VISUALIZATION USING R AND PYTHON (IBM)
DEGREE/BRANCH	MBA BUSINESS ANALYTICS	TIME & DATE	09.30 AM & 05.12.23

To create different types of graphs for user inputs.

a) Line graph

b) Line Graph with style

c)Bar Graph (Horizontal and vertical)

d) Histogram

e) Scatter Plot.

Aim, algorithm and Explanation (25)	Output & RESULT (15), Viva (20)	Total (60)

MBA BUSINESS ANALYTICS, VISTAS

UNIVERSITY LAB EXAMINATION

ANSWER ALL THE QUESTIONS (60 MARKS)

REGISTER NUMBER	23316126	NAME	ELAVARASI V
SUBJECT CODE	23PMBN12	SUBJECT NAME	DATA VISUALIZATION USING R AND PYTHON (IBM)
DEGREE/BRANCH	MBA BUSINESS ANALYTICS	TIME & DATE	09.30 AM & 05.12.23

To Do the data manipulation operations for the iris and mtcars dataset using the dplyr package and obtain the results for the following functions.

i)filter ii) select iii) arrange iv) summarize v) mutate

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Aim, algorithm and Explanation (25)	Output & RESULT (15), Viva (20)	Total (60)

MBA BUSINESS ANALYTICS, VISTAS
UNIVERSITY LAB EXAMINATION

ANSWER ALL THE QUESTIONS (60 MARKS)

REGISTER NUMBER	23316127	NAME	HARITHA N
SUBJECT CODE	23PMBN12	SUBJECT NAME	DATA VISUALIZATION USING R AND PYTHON (IBM)
DEGREE/BRANCH	MBA BUSINESS ANALYTICS	TIME & DATE	09.30 AM & 05.12.23

To Create a data frame and do the following operations using tidyr package.

i)gather ii) spread iii) separate iv) unite

Aim, algorithm and Explanation (25)	Output & RESULT (15), Viva (20)	Total (60)

MBA BUSINESS ANALYTICS, VISTAS
UNIVERSITY LAB EXAMINATION

ANSWER ALL THE QUESTIONS (60 MARKS)

REGISTER NUMBER	23316128	NAME	KEERTHI A
SUBJECT CODE	23PMBN12	SUBJECT NAME	DATA VISUALIZATION USING R AND PYTHON (IBM)
DEGREE/BRANCH	MBA BUSINESS ANALYTICS	TIME & DATE	09.30 AM & 05.12.23

To Do the data manipulation operations for the iris and air quality dataset using data. table package and obtain the results for the following functions.

a. Select a subset row
b. Select a column with particular values
c. Select columns with multiple values
d. Select a column to return a vector
e. Select multiple columns
f. Returns the sum and standard deviation
g. Sum of selected columns

Aim, algorithm and Explanation (25)	Output & RESULT (15), Viva (20)	Total (60)

MBA BUSINESS ANALYTICS, VISTAS
UNIVERSITY LAB EXAMINATION

ANSWER ALL THE QUESTIONS (60 MARKS)

REGISTER NUMBER	23316129	NAME	RITHIKA A
SUBJECT CODE	23PMBN12	SUBJECT NAME	DATA VISUALIZATION USING R AND PYTHON (IBM)
DEGREE/BRANCH	MBA BUSINESS ANALYTICS	TIME & DATE	09.30 AM & 05.12.23

To do the different visualization types for air quality data set using the ggplot package in R.

a. Line graph
b. Bar graph
c. Histogram
d. Scatter plot
e. Pie chart

Aim, algorithm and Explanation (25)	Output & RESULT (15), Viva (20)	Total (60)

MBA BUSINESS ANALYTICS, VISTAS

UNIVERSITY LAB EXAMINATION

ANSWER ALL THE QUESTIONS (60 MARKS)

REGISTER NUMBER	23316130	NAME	SHRUTHIKA A
SUBJECT CODE	23PMBN12	SUBJECT NAME	DATA VISUALIZATION USING R AND PYTHON (IBM)
DEGREE/BRANCH	MBA BUSINESS ANALYTICS	TIME & DATE	09.30 AM & 05.12.23

To write a Program to create maps with markers and Chropleth maps with Folium.

Aim, algorithm and Explanation (25)	Output & RESULT (15), Viva (20)	Total (60)

MBA BUSINESS ANALYTICS, VISTAS

UNIVERSITY LAB EXAMINATION

ANSWER ALL THE QUESTIONS (60 MARKS)

REGISTER NUMBER	23316131	NAME	SUSHMA SUBASHINI S
SUBJECT CODE	23PMBN12	SUBJECT NAME	DATA VISUALIZATION USING R AND PYTHON (IBM)
DEGREE/BRANCH	MBA BUSINESS ANALYTICS	TIME & DATE	09.30 AM & 05.12.23

To create different types of graphs for user inputs.

a) Line graph b) Line Graph with style

c)Bar Graph (Horizontal and vertical) d) Histogram

e) Scatter Plot.

Aim, algorithm and Explanation (25)	Output & RESULT (15), Viva (20)	Total (60)