**Shree Bhairavnath Shikshan Prasarak Mandal’s**

**ADHALRAO PATIL INSTITUTE OF MANAGEMENT AND RESEARCH**

**Home Assignment 2023**

**205 SC – BA - 01 Basic Business Analytics using R**

***Q1)*** Answer the following questions (Any Five): **[10]**

a) What are naming convention for variable names in R?

b) Enlist the features of R language.

c) Define Predictive Analytics?

d) Explain Summary ( ) function in R.

e) Write instruction code to read and write from file in R.

f) Explain if statement in R with syntax.

g) What are the skills required for good business analyst?

h) What is the use of help ( ) function in R?

***Q2)*** Answer the following questions (Any Two): **[10]**

a) What are datatypes in R? Explain any three datatypes using suitable

example.

b) Define Data structure in R? Explain list in R with appropriate example.

c) Explain Relational operators in R with suitable example.

***Q3)*** Answer the following questions (Any One): **[10]**

a) What is matrix in R? Which function is used to create a matrix? Explain

nrow, ncol, dimnames parameters in matrix.

b) Explain the following functions with example.

i) rbind ( )

ii) str ( )

iii) mean ( )

iv) sqrt ( )

v) class ( )

***Q4)*** Answer the following questions (Any One): **[10]**

a) Discuss the application of business analytics in marketing and healthcare

sector.

b) Explain various stages of an organisation in terms of data maturity. Discuss options for organisation in absence of good quality data.

**Q 5) Answer any one: [10]**

a) What is data visualization? Elaborate the need and importance of data visualization? Write and Explain with R code how to visualize data using

line plot & histogram.

b) Discuss the importance of loops in R. Elaborate for and while loop with

example.

\*\*\*\*\*\* ALL the BEST \*\*\*\*\*\*