Roll No.						

Total No. of Pages : 02

Total No. of Questions : 10

MBA (Sem.-3)

DATA SCIENCE USING R

Subject Code : MBA-962-18

M.Code: 77058

Date of Examination : 12-01-23

Time: 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

- 1. SECTION-A contains EIGHT questions carrying TWO marks each and students has to attempt ALL questions.
- 2. SECTION-B consists of FOUR Subsections : Units-I, II, III & IV. Each Subsection contains TWO questions each carrying EIGHT marks each and student has to attempt any ONE question from each Subsection.
- 3. SECTION-C is COMPULSORY and consists of ONE question carrying TWELVE marks.

SECTION-A

Explain briefly :

- 1. a) Define the term "Big Data" and what is the minimum size of data for it to be Big Data.
 - b) What is SVM and where it is used?
 - c) What is the difference between Regression and Logistic Regression?
 - d) What is the difference between Data Science and Artificial Intelligence?
 - e) Python or R Which one would you prefer for text analytics and why?
 - f) What is the difference between Classification and Clustering?
 - g) What is Correlation?
 - h) What is Multicollinearity?

SECTION-B

UNIT-I

- 2. What is the difference between supervised and unsupervised learning?
- 3. Explain correlation and covariance using R.

UNIT-II

- 4. Explain Linear, Multiple and Logistic Regression with an example.
- 5. Discuss Decision Tree with an example.

UNIT-III

- 6. Explain the process of clustering with X-means algorithm.
- 7. Discuss K-mean clustering and Hierarchical Clustering.

UNIT-IV

- 8. What is Machine Learning? Can you use machine learning for time series analysis?
- 9. Write a note on big data related techniques.

SECTION-C

10. A trading scheme database contains price and ratio. How data analysis will help to see where the ratio goes outside of some range or limit that would make us open a position? Also, how it will be possible to displays the cutoff points to understand the pairs trading strategy?

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.