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MCS-E7

Data Science for Engineers

Master of Computer Application (MCA)

4th Semester, Examination 2022(Dec.)

Time: 2 Hours   Max. Marks: 70

Note : This paper is of Seventy (70) marks divided into two (02) Sections A and B. Attempt the questions contained in these sections according to the detailed instructions given therein.

Section – A

(Long Answer – type questions)

Note: Section 'A' contains Five (05) long-answer-type questions of Nineteen (19) marks each. Learners are required to answer any two (02) questions only.

[2 x 19 = 38]

P.T.O.

Q.1. Explain various data structure used in R.

Q.2. Explain big data management architecture with neat block diagram.

Q.3. Explain the need for Correlation and Regression analysis in Data analysis with an example.

Q.4. Explain loops and conditional execution in R language.

Q.5. Describe the typology for data science problems.

Section – B

(Short-answer-type questions)

Note: Section 'B' contains Eight (08) short-answer-type questions of Eight (08) marks each. Learners are required to answer any Four (04) questions only.

[4 x 8 = 32]

Q.1. How to select Variable Selection in Logistic Regression.

Q.2. What is clustering?

Q.3. Explain linear regression and ridge regression.

Q.4. Explain classification of various Sampling methods.

Q.5. List Machine Learning Algorithms and explain any two in brief.

Q.6. Difference between K Means and KNN.

Q.7. Explain different matrix operation function in R?

Q.8. Explain the different data types in R-language.

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