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**M.Tech. 2nd Semester (Artificial Intelligence and Data
Science) Examination, July-2022**

DATASCIENCE

Paper-21MTA122C3

Time allowed : 3 hours] [Maximum marks : 100

*Note : Attempt five questions in all, selecting one question
from each unit. Question No. 1 is compulsory.*

1. Write short note on following : 20

(i) Data Preprocessing

(ii) PCA

(iii) ARIMA

(iv) EHR Data

Unit-I

2. Describe the following : 20

(i) Multivariate statistics

(ii) Simpson's Paradox

(2)

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3. Describe the following : 20

(i) Stalked histogram

(ii) Table Plot

Unit-II

4. Give a complete description about Goodness of fit and also describe how do you measure it. 20

5. Explain the following : 20

(i) tSNE

(ii) Gamma Regression

Unit-III

6. Explain the following : 20

(i) Auto Regression Time Series Model

(ii) Mean Stationarity

7. Describe the following : 20

(i) Gaussian Mixture Model

(ii) To Assess Performance of a Model

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(3)

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Unit-IV

8. Describe the following : 20

(i) Monte Carlo Method

(ii) Gene Expression

9. Describe the following : 20

(i) LSH

(ii) Price Optimisation

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