

M.C.A. (Sem-IV)

April-2023

(3 Hours)

[Total Marks: 80]

- N.B. : (1) Question No. 1 is Compulsory.**
(2) Attempt any three out remaining five questions.
(3) Each Question carries 20 marks.

- Q1) Attempt any four questions. [20M]
a) What are the benefits of data preparation? [5M]
b) What are the main types of Data Warehouses? [5M]
c) Write the difference between Star Schema and Snowflake Schema? [5M]
d) Explain Classification- based Association (CBA)? [5M]
e) Explain Euclidean distance measure in brief ? [5M]
- Q2)
a) Draw and explain architecture of Business Intelligence system? [10M]
b) What are steps in the Knowledge Discovery in Databases (KDD) process ? [10M]
- Q3) Solve any two questions
a) Write short note on “**LOGIC METHODS**”. [10M]
b) Write short note on “**Market Basket Analysis**”. [10M]
c) Explain what are methods used in text mining? [10M]
- Q4)
a) Explain the two types of Optimization problems? [10M]
b) Write short note on “**Bayesian Classification**” [10M]
- Q5)
a) Explain Extract, Transform and Load (ETL) Process in Data Warehouses in detail? [10M]
b) State and explain different clustering methods? [10M]
- Q6)
a) What are the Steps in implementing a Data mart? [10M]
b) Explain the application area of Text Mining? [10M]