

Roll No



**PRESIDENCY UNIVERSITY
BENGALURU**

**SCHOOL OF COMMERCE
MID TERM EXAMINATION - APR 2023**

Semester : Semester IV - 2022 - 23 - BSE - 2021

Course Code : BSE2014

Course Name : Sem IV - BSE2014 - Data Mining and Forecasting

Program : B.Sc. Economics

Date : 13-APR-2023

Time : 2:00PM - 3:30PM

Max Marks : 50

Weightage : 25%

Instructions:

- (i) Read all questions carefully and answer accordingly.
- (ii) Question paper consists of 3 parts.
- (iii) Scientific and non-programmable calculator are permitted.
- (iv) Do not write any information on the question paper other than Roll Number.

PART A

ANSWER ALL THE FIVE QUESTIONS

5X2=10M

1. What is the Difference between Data and Information?
(CO1) [Knowledge]
2. What is a transaction in a Computer Application?
(CO1) [Knowledge]
3. Explain ACID Components.
(CO1) [Knowledge]
4. What is Data Pre-Processing?
(CO1) [Knowledge]
5. What is Data Processing?
(CO1) [Knowledge]

PART B

ANSWER ALL THE TWO QUESTIONS

2X10=20M

6. What are the major issues in data mining?
(CO1) [Comprehension]
7. Explain briefly below concepts:
 - a) Data Cleaning
 - b) Data Integration
 - c) Data Reduction
 - d) Data Decentralization
(CO2) [Comprehension]

PART C

ANSWER THE ONE QUESTION

1X20=20M

8. Background: A bank has a loan approval process that involves manual review of applications by loan officers. The process is time-consuming and leads to inconsistent decisions. The bank has collected historical data on loan applications, including information about the applicant's credit history, income, debt, and other factors.

Objective: To improve the loan approval process by using data mining techniques to identify patterns and trends in the loan data that can be used to predict loan approval outcomes.

(CO2) [Application]