

GYANMANJARI INNOVATIVE UNIVERSITY

GYANMANJARI INSTITUTE OF TECHNOLOGY

B.tech.-Mid Semester Examination (MSE) - S2026

Enrollment No.: _____

Subject Code: BETIT16325

Subject Name: Data Warehousing and Mining-

Time: 2:30 pm to 4:30 pm

Date: 23-03-2026

Semester: 6

Total Marks: 60

Instructions:

1. Question No. 1 is compulsory.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

	Marks
Q.1 (a) Explain the difference between classification and Prediction.	05
(b) What is Association Rule Mining? Explain Market Basket Analysis?	05
(c) Discuss the architecture of a data warehouse in detail. Also explain the three-tier architecture.	10
Q.2 (a) Explain Applications of Data mining in detail.	05
(b) What is the Difference between Descriptive mining and Predictive mining?	05
OR	
(b) Discuss the Data mining functionalities.	05
(c) Discuss data pre-processing techniques	10
OR	
(c) Explain OLAP Operations in data warehouses.	10
Q.3 (a) What is Decision tree algorithms? Explain CART algorithm	05
(b) Explain ETL process with extraction, cleaning, transformation, loading process.	05
(c) Explain Model evaluation and validation with confusion matrix, accuracy, precision, recall, F1-score,	10
OR	
Q.3 (a) What are Ensemble methods. Discuss the Bagging method with example.	05
(b) Discuss Regression and explain linear regression, logistic regression.	05
(c) What is Schema in mining process Explain star, snowflake and fact constellation schema with figure	10