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: 16-03-2026

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 Functionalities of data mining.	05
	(b)	Explain Knowledge discovery in databases (KDD) process.	05
	(c)	What is Schema in mining process. Explain star, snowflake and fact constellation schema with figure.	10
Q.2	(a)	Discuss data warehouse architecture in detail.	05
	(b)	What is the Difference between Descriptive mining and Predictive mining.	05

OR

	(b)	Discuss the Challenges in data mining and explain any five.	05
	(c)	What is noisy data? Explain the different techniques to remove the Noise from data.	10

OR

	(c)	Explain Query optimization techniques 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 the role of OLAP in data warehouse process. Explain OLAP operations	10