Seat No.:	Enrolment No.

GUJARAT TECHNOLOGICAL UNIVERSITY MBA – SEMESTER –III-EXAMINATION – WINTER-2022

Subject Code: 4539251 Date:30	01/2023
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Subject Name: Data Warehousing and Data Mining

Time: 10:30 AM to 1:30 PM Total Marks: 70

Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary
- 3. Figures to the right indicate full marks.
- 4. Use of simple calculators and non-programmable scientific calculators are permitted.

Q.NO Q.1 (a) Data Extraction 14 Outlier (b) Data Manipulation Language (c) (d) Meta Data Lazy learner (e) Web Mining (f) Data mart (g) Explain Boyce-Codd Normal Form (BCNF) with proper Example. Q.207 (a) (b) Explain various features SQL. 07 OR Explain Reporting and Query tools in detail. (b) 07 Discuss Bayesian classification Q.307 (a) Discuss the data warehouse design process in detail. Q.3 (b) 07 OR Discuss Support Vector Machines. 07 (a) Discuss in detail about Data mining methods and how it can be apply with 07 appropriate example. Write K-means clustering algorithm. **Q.4** (a) **07** Discuss in detail Grid based clustering method. 07 (b) What is web mining? Explain with related example. 07 Define Clustering? Explain about Types of Data in Cluster Analysis? 07

Q.5 CASE STUDY

In maruti Suzuki , market analysis technique that give the careful study of purchases of vehicle done by customer, this concept identify the pattern of purchase of vehicle by customers. This kind of the Analysis can be help to promote newly launch vehicle and existing vehicle by the companies of Maruti Suzuki and the data mining technique help to achieve this task this collected huge amounts of data on day to day basis, will help sales and marketing to provide better customer. But this is a manual process and is error prone and time consuming due to large volume of transactional and historical data. Interesting patterns and knowledge can be mined from this huge volume of data that in turn can be used for this decision making process.

- Q.5 (a) Explain the possible Data mining technique that can be applied in Maruti 07 Suzuki.
- Q.5 (b) Describe the convectional decision making process and decision making 07 with data mining with reference to Maruti Suzuki.

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- Q.5 (a) Discuss the application area of data mining in Maruti Suzuki. 07
- Q.5 (b) Discuss the grouping of data for Maruti Suzuki. 07
