



Register Number:.....

B.TECH DEGREE EXAMINATIONS: MAY 2015

(Regulation 2009)

Seventh Semester

INFORMATION TECHNOLOGY

ITY117: Data Warehousing and Data Mining

Time: Three Hours

Maximum Marks: 100

Answer all the Questions:-

PART A (10 x 1 = 10 Marks)

1. An aggregate function is ----- if there is no constant bound on the storage size needed to describe a subaggregate
 - a) Distributive
 - b) Algebraic
 - c) Holistic
 - d) Normal
2. A semantic data model such as ----- data model, which models the database as a set of entities and their relationships, is often constructed for relational database
 - a) UML
 - b) ER
 - c) CRC
 - d) Database
3. Data mining uses _____ approach
 - a) Query driven
 - b) Update driven
 - c) Module driven
 - d) Process driven
4. ----- involves finding the “best” line to fit two variables, so that one variable can be used to predict the other.
 - a) Clustering
 - b) Linear regression
 - c) Multiple linear regression
 - d) Binning
5. ----- computes an aggregate function over an attribute or set of attributes in order to find aggregate values above some specified threshold.
 - a) Iceberg queries
 - b) Holistic queries
 - c) Aggregate queries
 - d) Database queries
6. ----- measure is referred to as a measure of the goodness of split.
 - a) Information gain
 - b) Support
 - c) Confidence
 - d) Pruning

- (ii) Discuss about the various methods for handling missing values (6)

(OR)

- b) Explain about discretization and concept hierarchy generation for numeric data with examples.

23. a) (i) Consider the following database (7)

TID	List of item_IDs
T100	I1,I2,I5
T200	I2,I4
T300	I2,I3
T400	I1,I2,I4
T500	I1,I3
T600	I2,I3
T700	I1,I3
T800	I1,I2,I3,I5
T900	I1,I2,I3

Find the frequent item set using Apriori algorithm.

- (ii) Discuss about the process of improving the efficiency of Apriori with an example. (7)

(OR)

- b) (i) Compare clustering and classification. (4)
(ii) Explain about the Naïve Bayesian classification with an example. (10)

24. a) Discuss about Partitioning and Model-based clustering methods.

(OR)

- b) Discuss about Distance-based and deviation-based approaches for outlier detection.

25. a) Discuss the role of data mining in processing the Text.

(OR)

- b) Discuss about mining multimedia databases.
