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**Question Paper Code: 55205**

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2019

Fifth Semester

Computer Science and Engineering

01UCS505- DATA WAREHOUSING AND DATA MINING

(Regulation 2013)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions.

PART A - (10 x 2 = 20 Marks)

1. Define a data warehouse.
2. List the components of star schema.
3. What is dimensionality reduction?
4. Mention the features of in business applications using OLAP.
5. List out the major tasks involved in Data preprocessing.
6. Differentiate operational database and informational database.
7. Distinguish Eager learners and Lazy learners.
8. State the interesting measures of an association rule.
9. Mention the advantages of hierarchical clustering.
10. What are the challenges of outlier detection?

PART - B (5 x 16 = 80 Marks)

11. (a) Describe the data warehouse architecture with a neat diagram. (16)

Or

(b) Discuss about the concept of Mapping the data warehouse to a multiprocessor architecture. (16)

12. (a) Describe about the various OLAP operations in multidimensional model. (16)

Or

(b) Describe the various Reporting and Query tools and their application. (16)

13. (a) (i) What kinds of data can be mined using data mining algorithm? (8)

(ii) Explain the about the data mining functionalities? (8)

Or

(b) Describe about the various Data reduction techniques in detail. (16)

14. (a) Discuss Apriori algorithm with a suitable example and explain how its efficiency can be improved. (16)

Or

(b) Infer the process of classification using support vector machines. (16)

15. (a) Describe about the categorization of major clustering methods. (16)

Or

(b) Illustrate the strategies involved in finding various outliers. (16)