Reg. No. :

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2018

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. Express min-max normalization?

7. Distinguish Eager learners and Lazy learners.

8. State the interesting measures of an association rule.

9. Mention the advantages of hierarchical clustering.

10. Describe the term Outliers.

PART - B (5 x 16 = 80 Marks)

11. (a) Discuss two vendor specific Dynamic transformation tools in detail. (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) What are differences between three main types of data usage, information processing, analytical processing and data mining? Discuss the motivation behind OLAP. (16)

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

Or

(b) Explain about the architecture of a typical data mining system with diagram. (16)

14. (a) Explain the process of mining Frequent itemsets without using candidate generation with an example. (16)

Or

(b) Differentiate Classification and Prediction. Explain the issues regarding classification and prediction. (16)

15. (a) Explain the K-means clustering with an example. (16)

Or

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

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