Reg. No. :

Question Paper Code: 35205

B.E. / B.Tech. DEGREE EXAMINATION, APRIL 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. How databases differ from data warehouse?

2. List out the applications of data warehouse.

3. How a database design is represented in OLAP systems?

4. What is called lattice of cuboids?

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. Why tree pruning useful in decision tree induction?

9. Mention the advantages of hierarchical clustering.

10. Describe the term Outliers.

PART - B (5 x 16 = 80 Marks)

11. (a) (i) Brief the components of data warehouse in detail. (8)

    (ii) Explain the various views in design and construction of a data warehouse. (8)

Or

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

12. (a) (i) Explain about the applications and categories of reporting and query tools. (12)

    (ii) What is cognos and impromptu? Explain it in brief. (4)

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

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

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

15. (a) State the different types of clustering method and explain in detail *K* means clustering. (16)

Or

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

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