Reg. No. : | | | | | | | | | | |

Question Paper Code: 31525

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2016

Fifth Semester

Computer Science and Engineering

01UCS505 – DATA WARESHOUSING 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. What is descriptive and predictive data mining?
6. What is meant by interesting pattern?
7. Why do we need support vector machines?
8. What is lazy learner?
9. What is precision and recall?
10. What is the need for cluster?

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) (i) Write about the mapping of data warehouse to a multiprocessor architecture. (12)

(ii) List out what are the data included in Meta data repository. (4)

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) (i) Explain briefly about the multidimensional data model. (8)

(ii) Discuss the typical OLAP operations in small notes. (8)

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) (i) Explain the various data mining issues. (6)

(ii) Explain the normalization process in detail. (10)

14. (a) Explain how association rules are mined from large databases. (16)

Or

(b) (i) Explain the two basic classification process with neat diagram. (6)

(ii) Write some example applications of classification. (4)

(iii) What is prediction analysis? (6)

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

Or

(b) Explain in detail about outlier analysis. (16)

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