KUMARAGURU
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Register Number:……..

MCA DEGREE EXAMINATIONS: NOV/DEC 2014

(Regulation 2009)

Fifth Semester

MASTER OF COMPUTER APPLICATIONS

MCA528: Data Ware Housing and Data Mining

Time: Three Hours **Maximum Marks: 100**

Answer all the Questions:-

PART A (10 x 2 = 20 Marks)

1. What is noisy data? Give example.
2. What is data cleaning?
3. What is a multidimensional database? Give an example.
4. Differentiate between OLAP & OLTP.
5. What do you mean by concept hierarchy?
6. What is the need for data integration?
7. Justify the need for pruning phase in decision tree construction.
8. Differentiate between classification and clustering.
9. Give any four applications of data mining.
10. What is a spatial database?

PART B (5 x 16 = 80 Marks)

11. a) (i) Describe the architecture of a data mining system. (10)

(ii) Data mining is an interdisciplinary field Discuss. (6)

(OR)

b) (i) Explain the various functionalities of data mining algorithms. (8)

(ii) Explain each step of knowledge discovery (KDD) process with their significance. (8)

12. a) (i) Explain the implementation of data warehouses with a star schema with a suitable example. Compare this model with snow flake schema. (8)

(ii) Explain about the various OLAP operations in a multidimensional data model. (8)

(OR)

b) Discuss about data warehouse architecture.

13. a) Explain apriori algorithm for mining association rules with an example.

(OR)

b) (i) State and discuss the strategies for data reduction. (8)

(ii) Explain FP growth algorithm with an example. (8)

14. a) (i) Discuss about the issues regarding classification and prediction. (8)

(ii) What is cluster analysis? Discuss about the various categories of clustering algorithms. (8)

(OR)

b) Explain Bayesian classification algorithm with an example. Compare this algorithm with decision tree approach.

15. a) What is web mining? Explain about the techniques used in web mining.

(OR)

b) What is text mining? Explain about text mining with examples.

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