KUMARAGURU college of technology
character is life

Register Number:……..…

MCA DEGREE EXAMINATIONS: MAY 2015

(Regulation 2009)

Fourth Semester

MASTER OF COMPUTER APPLICATIONS

MCA528: Data Warehousing and Data Mining

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

Answer all the Questions:-

PART A (10 x 2 = 20 Marks)

1. Define data mining.
2. What is evolution analysis?
3. What is the need for OLAP tools?
4. Differentiate between a data mart and a data warehouse.
5. What is data preprocessing?
6. What is the difference between classification & clustering?
7. State the characteristics of Apriori algorithm.
8. What is agglomerative clustering?
9. What is web mining?
10. What is the need for text mining?

PART B (5 x 16 = 80 Marks)

11. a) (i) Explain the steps involved in data mining process. (8)

    (ii) "Data Mining is an interdisciplinary field." – Justify the statement. (8)

(OR)

    b) (i) Explain the various techniques used in the data mining process. (8)

    (ii) Explain the steps in KDD process. (8)

12. a) (i) Explain the implementation of a data warehouse with a snowflake schema model. (8)

    (ii) Explain the architectural design of a data warehouse with a diagram. (8)

(OR)

	b)	(i)	Explain the components of a data warehouse with a diagram.	(8)
		(ii)	Write notes on ROLAP & MOLAP servers.	(8)

13. a) Explain the various data preprocessing techniques with examples.

(OR)

b) Discuss the steps involved in FP algorithm with an example.

14.	a)	(i)	Explain k-means cluster analysis with an example.	(8)
		(ii)	Discuss the different types of data that can be used for clustering with examples.	(8)

(OR)

b) Explain decision tree classification algorithm with an example.

15.	a)	(i)	Explain data mining process on spatial database.	(8)
		(ii)	Explain any two applications of data mining.	(8)

(OR)

	b)	(i)	Explain the process of text mining in detail.	(8)
		(ii)	Discuss the social impacts of data mining.	(8)

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