MCA (E) 9

M.C.A. DEGREE EXAMINATION, MAY 2010.

Fifth Semester

Computer Applications

DATA WAREHOUSING AND MINING

Time : Three hours Maximum : 75 marks

Answer ONE full question from each Unit.

All questions carry equal marks.

UNIT I

1. What is data mining? Explain how the evolution of database technology led to data mining? (15)

Or

2. What is data warehouse? How is a data warehouse different from a database? How are the similar? (15)

UNIT II

3. Explain in detail the architecture of data warehouse. (15)

Or

4. What is metadata? Explain the role of meta data in different data warehousing functional areas. (15)

UNIT III

5. (a) Write short notes on data mining task primitives. (5)

(b) Discuss the issues of data mining. (10)

Or

6. Explain the Apriori Algorithm? How can the efficiency of Apriori mining algorithm measure? (15)

UNIT IV

7. List and explain the different clustering method. (15)

Or

8. Discuss how different forms of data mining can be used in the application. (15)

UNIT V

9. Explain the data mining process of OLE DB with example. (15)

Or

10. (a) Write about OLE DE Architecture. (9)

(b) Explain how to create and train a data mining model. (6)

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M.C.A. DEGREE EXAMINATION, MAY 2009.

Fifth Semester

Computer Applications

DATA WAREHOUSING AND MINING

Time : Three hours Maximum : 75 marks

Answer FIVE questions by choosing ONE full from each Unit.

All questions carry equal marks.

UNIT I

1. (a) Discuss the architecture of a typical data mining system of the major components in detail. (8)

(b) Describe the various classifications of data mining according to the different criteria in briefly. (7)

Or

2. (a) Explain how data warehouse differ from data base in briefly. (8)

(b) Explain the features of data warehouse. (7)

UNIT II

3. (a) Explain how to design appropriate data warehouse schemas from the logical requirements model. (8)

(b) Briefly discuss about Backup and recovery strategy of data warehouse. (7)

Or

4. (a) Discuss the horizontal partitioning and vertical partitioning process in detail. (8)

(b) Explain how to determine the appropriate aggregation strategy in detail. (7)

UNIT III

5. (a) Explain the importance of data mining query language. (8)

(b) Write a cube based incremental algorithm for mining analytical class comparisons. (7)

Or

6. (a) Briefly explain the native Bayesian classification. (8)

(b) Describe the various kinds of constraints with suitable example. (7)

UNIT IV

7. (a) Discuss the data mining system products and research prototypes. (8)

(b) Describe the various trends in data mining. (7)

Or

8. (a) Discuss the various approaches of outlier analysis with suitable example for each approach. (8)

(b) Explain the different types of data in cluster analysis. (7)

UNIT V

9. Describe the OLEDB for DM specifications with their operations. (15)

Or

10. Discuss the DB miner in detail. (15)

MCA (E) 9

M.C.A. DEGREE EXAMINATION, NOVEMBER 2009.

Fifth Semester

Computer Applications

DATA WAREHOUSING AND MINING

Time : Three hours *Maximum : 75 marks*

Answer FIVE questions, choosing ONE full question from each unit.

All questions carry equal marks.

UNIT I

1. (a) Discuss the evaluation of database technology in briefly. (8)

(b) Discuss the architecture of a data warehouse in detail. (7)

Or

2. (a) Explain the functionalities of data mining with suitable example for each. (8)

(b) Discuss the difference between OLTP and OLAP systems. (7)

UNIT II

3. (a) Describe the various steps and guide lines effectives in determining facts from dimensions in briefly. (8)

(b) Explain how to determine the appropriate database-partitioning strategy in detail. (7)

Or

4. (a) Discuss the two different categories of tools to manage a data warehouse in detail. (8)

(b) Write short notes on parallel technology. (7)

UNIT III

5. (a) Explain the primitives for specifying a Data mining task in briefly. (8)

(b) Explain the four major types of concept hierarchies in detail. (7)

Or

6. (a) Write a basic algorithm for attribute-oriented induction. (8)

(b) Explain the apriori algorithm for finding frequent item sets using candidate generation. (7)

UNIT IV

7. (a) Describe the various applications in Data mining. (8)

(b) Discuss the impacts of Data mining. (7)

Or

8. (a) What is cluster analysis? Explain. (8)

(b) Describe the categorization of major clustering methods with suitable example for each method. (7)

UNIT V

9. Describe the OLEDB for DM specifications with their operations. (15)

Or

10. Discuss the DB miner in detail. (15)

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3. (a) Discuss
Layer.

(b) Write a s

4. (a) Discuss o

(b) Discuss
methods.

5. (a) Discuss
transport layer by th

(b) Compare
within the subnet.

6. (a) What is f

(b) Discuss
algorithms.

7. (a) Write a sl

(b) Discuss o

MCA (E) 9

M.C.A. DEGREE EXAMINATION, DECEMBER 2008.

Fifth Semester

Computer Applications

DATA WAREHOUSING AND MINING

(From 2007 batch onwards)

Time : Three hours Maximum : 75 marks

Answer any FIVE questions, choosing ONE full from each Unit.

All questions carry equal marks.

UNIT I

1. List and describe the advanced database systems and applications. (15)

Or

2. (a) Describe the steps involved in data mining when viewed as a process of knowledge discovery? (10)

(b) Compare information processing and analytical processing? (5)

UNIT II

3. Explain the star-flake schema. How does facts identify from dimensions? (15)

Or

4. (a) Describe the factors affecting the performance of data warehouse. (10)

(b) List and explain the objective measures of data tuning in data warehouse. (5)

UNIT III

5. What is the need of data preprocessing? Explain in detail about the data preprocessing techniques. (15)

Or

6. (a) How is prediction differed from classification? (5)

(b) Write about data classification process. (10)

UNIT IV

7. (a) What is clustering? What are the different requirements should be analyzed for clustering in data mining? (10)

(b) What are the difference between visual data mining and data visualization? (5)

Or

8. (a) Explain the hierarchical clustering methods. (8)

(b) List and explain recent trends in data mining. (7)

UNIT V

9. Create and train a data mining model for 'Railway Reservation System'? (15)

Or

10. Explain the OLE DB data mining process? (15)

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