



322812(22)

B. E. (Eighth Semester) Examination,
April-May, 2009

(CSE, IT Engg. Branch)

DATA MINING & WAREHOUSING

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : Attempt all questions. Sub-question (a) of 2 marks, each question is compulsory. Attempt any two sub-questions of 7 marks in each question. Assume suitable data wherever.

1. (a) Define the data warehouse. 2
- (b) How is a data warehouse different from a database? How are they similar? 7

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- (c) What are the different components of a data warehouse? Explain with the help of diagram. 7
- (d) What is meta data and why is it important? Discuss the multidimensional data. 7
2. (a) What is data quality? 2
- (b) Data consolidation is data modeling activity. This statement is true or not. Justify. 7
- (c) Write short notes : 7
 - (i) Data Extraction
 - (ii) Data Design
- (d) List the various step involved in data transformation. Explain. 7
3. (a) What are the Pros & Cons of the top down and bottom up approaches in to data warehouse development? 2
- (b) What is OLAP? Explain the various OLAP operations used in a data cube. 7
- (c) What are the usage of data warehouse? How many types of data warehouse application are there? 7
- (d) Differentiate between online analytical processing & online transaction processing. 7

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4. (a) What is data mining? 2
- (b) What are technologies used in data mining? Explain. 7
- (c) What are classification rules and how are decision trees related to them? 7
- (d) Explain K-means clustering with examples. 7
5. (a) What do you mean by data mining primitives? 2
- (b) What is concept of hierarchy? How is it related to web mining? 7
- (c) Explain spatial decision tree algorithm with example. 7
- (d) Discuss about data generalization and summarization based characterization in detail. 7

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- (ii) Data Mining Primitives.
- (iii) Spatial Mining.
- (iv) Summarization based characterization.
- (v) System product and research prototypes.

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BE (8th Semester)

Examination, April-May, 2010

Branch : CSE, IT

DATA MINING & WAREHOUSING

Time allowed : Three Hours

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Minimum Marks : 28

Note : (i) Solve any two parts from each question.

(ii) All the questions carry equal marks.

(iii) Draw the neat diagram wherever necessary.

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- Q. I. (a) What is Data Warehousing ? Give the basic elements of Data Warehousing. 8
- (b) Explain project planning and management with an example. 8
- (c) What is Meta Data ? Explain by giving some example with suitable diagram. 8
- Q. II. (a) Explain Data Extraction Transformation and loading with suitable diagram. 8
- (b) What is dimensional modelling ? Explain along with its principles. 8
- (c) Explain Data Equality with suitable example. 8

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- Q. III. (a) What is OLAP ? Explain along with its advantages. 8
- (b) What is the relation between Data warehouse and web ? 8
- (c) Explain how to implement and maintain the Data warehouse ? 8
- Q. IV. (a) What are the different techniques of data mining ? Explain any one. 8
- (b) Explain classification Algorithm. 8
- (c) Explain KBD process. 8
- Q. V. Write short notes (any four) : 16
- (i) Trends in data mining.

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- (ii) What is clustering? Explain K-means Algorithm of clustering.

- (iii) What is Association Mining? Explain Apriori Algorithm for association mining.

Q. 5. (a) Explain difference between Temporal & Spatial Mining. 2

(b) Attempt any two questions : 7×2=14

- (i) Explain Web Structure Mining in detail.
(ii) Explain trends in Data Mining.
(iii) Explain GUI based designing on a Data Mining query language.

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322812 (22)BE (8th Semester)

Examination, April-May, 2011

Branch : CSE, IT

DATA MINING & WAREHOUSING

Time Allowed : Three Hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : All questions are compulsory.

Q. 1. (a) What is data warehouse? 2

(b) Attempt any two questions : 7×2=14

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- (i) Describe architecture and infrastructure of data warehouse.

- (ii) What is Data Mart? What is difference between Data warehouse and Data mart?

- (iii) Describe basic elements of Data warehouse.

Q. 2. (a) What is ETL? 2

(b) Attempt any two questions : 7×2=14

- (i) What is Dimension Modelling in Data Warehouse?

- (ii) Explain OLAP operation performed on Data warehouse.

- (iii) What is Binning Method?

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Q. 3. (a) What is OLAP? 2

(b) Attempt any two questions : 7×2=14

- (i) Draw snowflake diagram of Data warehouse.

- (ii) How to implement and maintain Data warehouse?

- (iii) Explain preprocessing in Data warehouse.

Q. 4. (a) Explain difference between DBMS and Data Mining. 2

(b) Attempt any two questions : 7×2=14

- (i) Explain Data mining techniques.

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- (c) Discuss the single dimensional boolean association rule mining for transaction database. 7

- (d) Explain minimum spanning tree. Give an example for them. 7

Q. 5. (a) What do you mean by 'Harvest System'? 2

- (b) Discuss Data visualization with reference to Data mining. 7

- (c) Write short notes on : 7

(i) Trends in data mining

(ii) Spatial mining

- (d) Discuss the importance of establishing a standardized data mining query language. What are the potential benefits and challenges involved in such a task? 7

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- (b) What is meta data and why is it important? 7

Discuss the multidimensional data.

- (c) Write the difference between operational database & data warehouse. 7

- (d) Briefly describe 3-tier data warehouse architecture. 7

Q. 2. (a) What is data quality? 2

- (b) What is dimensional modeling? Explain along with its example. 7

- (c) List the various step involved in data transformation. 7

- (d) Explain the star, snowflake & fact constellation schemes for representing multidimensional databases taking suitable examples. 7

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BE (8th Semester)

Examination, April - May, 2012

Branch : CSE, IT

DATA MINING & WAREHOUSING

Time Allowed : Three Hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : Attempt all questions. Sub-question (a) of 2 marks, each question is compulsory. Attempt any two sub-questions of 7 marks in each question. Assume suitable data wherever.

Q. 1. (a) What are the various forms of the data processing. 2

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Q. 3. (a) What is partitioning? 2

- (b) What are the different components of a data warehouse? Explain with the help of a diagram. 7

- (c) What is on-line transaction processing (OLTP)? Describe the evolution of OLTP. What are the critical feature of OLTP system? 7

- (d) What is the relation between data warehouse & web? 7

Q. 4. (a) What are technologies used in data mining? 2

- (b) What is clustering? How does it differ from classification? Describe the following approaches to clustering methods & partitioning methods. Give an example for each. 7

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- Q. 5. (a) Discuss usability of data mining techniques in E-commerce. 8
- (b) What is a concept of hierarchy? How it is related to web mining? 8
- (c) What is Data Visualization? How can this tool help in decision making process? 8

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BE (8th Semester)

Examination, Nov.-Dec., 2011

Branch : CSE/JIT

DATA MINING AND WAREHOUSING

Time Allowed : Three Hours

Maximum Marks : 80

Minimum Pass Marks : 28

Note : (i) Solve any two parts from each question.

(ii) All question carry equal marks.

- Q. 1. (a) Explain Project Planning and Management with an example. 8

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- (b) What are the different components of Data warehouse? Explain with the help of diagram. 8
- (c) What is metadata and why it is important? Discuss the multidimensional data. 8
- Q. 2. (a) What is Dimensional Modeling? Explain along its principles. 8
- (b) Explain Data Extraction, Transformation and loading with suitable examples. 8
- (c) What is Data Quality? How we can improve it and what are different challenges of Data Quality? 8

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3. (a) Explain, how to implement and maintain the Data Warehouse? 8
- (b) What are the types of storage repositories in the data staging component of DWH architecture? 8
- (c) What is OLAP? Explain various OLAP operations in data cube. 8
- Q. 4. (a) What are classification rules and how is decision trees related to them? 8
- (b) Discuss various data mining techniques. 8
- (c) List and describe the five primitives for specifying a data mining task. 8

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