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## **End-Term Examination**

Fourth Semester [MCA] - MAY-JUNE 2006

Paper Code: MCA-202 (ID -44202) Subject: Data Warehousing & Data Mining

Time: 3 Hours Maximum Marks: 60

Note: Question no. 1 is compulsory and carries 20 marks. Apart from question 1, the question paper consist of four units each containing two questions carrying 10 marks each. You must attempt one question from each unit.

- Q. 1 (a) Define information crisis.
  - (b) How data is different from information?
  - (c) Provide functional definition of a data warehouse.
  - (d) Which type of activities are covered under data cleaning.
  - (e) Explain briefly the significance of JAD techniques.
  - (f) How ER modeling is different from dimensional modeling?
  - (g) A dimension table is wide; the fact table is deep. Do you agree? Why / why not?
  - (h) Are the junk dimensions necessary in a data warehouse?
  - (i) What do you understand by slice-and dice.
  - (j) Is the data warehouses a pre-requisite for data mining. Why/ why not.

### <u>UNIT -1</u>

- Q. 2 Data warehousing is the only viable means to resolve the information crisis and to provide strategic information. List five reasons to support this assertion and explain them.
- Q. 3 How are the top-down and bottom-up approaches for building a data warehouse different? Discuss the advantages and disadvantages of each approach.

#### **UNIT-II**

- Q. 4 Why is entity-relationship modeling technique not suitable for the data warehouse? How is dimensional modeling different?
- Q. 5 How does a snowflake scheme differs from a STAR schema. Explain with an example. Name any two disadvantages of snowflake schema.

#### **UNIT-III**

Q. 6 What are the essential differences between MOLAP and ROLAP models. Also list a few similarities.

Q. 7 State any five of Dr. Cod's guidelines for an OLAP system, giving brief description of each.

## <u>UNIT -1V</u>

- Q. 8 Discuss various application of data mining.
- Q. 9 How OLAP is different from data mining. Explain using example.

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# **END-TERM EXAMINATION**

FIFTH SEMESTER [MCA] - DECEMBER 2004 Paper Code: MCA-323 **Subject: Data Warehousing and Data Mining** Time: 3 Hours **Maximum Marks: 60** Note: Attempt five questions in all including Q. 1 which is compulsory. Q. 1. Compulsory Question; Attempt any six parts 12 (a) What are the conceptual features of Data Warehousing which makes it superior to conventional DBMS? (b) Differentiate data mart and data warehouse (c) Multi dimensional databases versus two dimensional conventional databases. (d) Legacy and operational databases (e) Compare data mining concepts with conventional mining engineer. (f) Describe ROLAP (g) Data Integration (h) Cluster analysis and its application (i) Discuss contents of meta data repository. Q. 2. (a) Differentiate operational database system and data warehouses. Some times data warehousing also is termed "from tables and spread sheets to data cubes". Comment (b) Discuss Data Warehouse architecture, specifically describe 3-tier data warehouse architecture. Q. 3. (a) Describe various approaches of data mining. 5 (b) CRM (Customer Relation Management) is considered to be and ideal application of data mining. Illustrate this if you were given data on spending habit of famous credit card holders. Q. 4. What are the difference between three main types of data warehouse usage, information processing, analytical processing, and data mining? Also discuss the motivation behind OLAP mining (OLAM). 12 Q. 5. (a) Describe various steps to build a data warehouse in an organization, say in banking sector. 6

(b) What is level of granularity, how will you decide on the level of

granualering in your data for data warehouse.

Q. 6.	(a) KDD is really a good example of convergence of technologies who disciplines like statistics, graphics, mathematical and other analytical to support KDD. Discuss with example.	
	(b) Data warehousing and data mining concepts have provided new approfor DSS. Discuss.	oval <b>6</b>
Q. 7.	(a) Differentiate stationary, distributed and virtual data warehouses.	6
	(b) Describe use of Fuzzy logic and its tools in data mining.	6
Q. 8.	Write short notes on any two topics  (a) Data mining using neural versus genetic algorithm  (b) Data web – its applications  (c) Data models on Data warehousing  (d) Data warehousing system for EIS.	12

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# **END-TERM EXAMINATION**

## FIFTH SEMESTER [MCA] - DECEMBER 2002

Paper Code: MCA-323	Subject: Data Warehousing and Data Minir	ng
Time: 3 Hours	Maximum Marks: 6	50
Note: Atten	npt any five questions.	
Q. 1. (a) What can data mining do? Wh Mining?	nat are the various approaches of Data  6	
(b) What are the goals and compositions and practical implications.	nents of a data warehouses? Describe its  6	
Q. 2. (a) Compare LAN based data ware	ehouse with stage data warehouse. 6	<u>,</u>
(b) How do differentiate between swarehouses. Give appropriate example of the control of the con	stationary, distributed and virtual data mple. 6	ĺ
Q. 3. Differentiate between the followin  (e) 2-tier, 3-tier and 4-tier de  (f) Meta data and operations	ata warehouses. 8	
Q. 4. Discuss knowledge discovery thro this with knowledge discovery thro	ough statistical techniques in detail. Compare ough neural networks.	e .2
Q. 5. What is a Datamart? What are the decision support? Give appropriate	advantages of using OLAP databases for e example.	12
	LTP and OLAP? What are the various DSS latabases? Explain with the help of	12
Q. 7. (a) When do we prefer to use Neur limitations and consequences of ch	ral Networks in data mining? What are the noosing neural networks in DSS?	6
(b) What is Data partitioning? How relation Management (CRM)?	w do we use data mining for Customer	6
Q. 8. Write short notes on any two topic  (g) Fuzzy techniques for Da  (h) Data Mining using Gene  (i) Data warehouse architec	ta Mining tic Algorithms	+6