

M.C.A. First Semester (Third Year) (CGS)
15543 : Elective - II : Data Warehousing & Data Mining : 5 MCA 5

P. Pages : 2

Time : Three Hours



AU - 3174

Max. Marks : 80

- Notes :
1. Assume suitable data wherever necessary.
 2. Illustrate your answer necessary with the help of neat sketches.
 3. Use of pen Blue/Black ink/refill only for writing the answer book.

1. a) Explain what are the major classifications of Data mining systems. 7
- b) Explain the steps in knowledge discovery. Explain the data pre-processing techniques in detail. 7

OR

2. a) Explain in brief classification, clustering and Association rule mining. 7
- b) Explain with example the concept of data characterization and data discrimination. 7
3. a) List and describe the five primitives for specifying data mining. 7
- b) What is data mining query language? State its advantages. 6

OR

4. a) State and explain different types of clustering. 7
- b) Explain data discretization technique in detail. 6
5. a) Discuss and elaborate the current trends in data mining. What are the applications of data mining for financial data analysis? 7
- b) State any ten commercial data mining systems. 6

OR

6. a) State and describe the various features for selecting a data mining product. 8
- b) Explain visual and audio mining. 5
7. a) Explain data warehouse. State the advantages of data warehouse. 7
- b) Draw and explain the data warehouse architecture. Explain OLAP & MOLAP. 6

OR

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| 8. | a) | Explain the concept of multidimensional data model. Give suitable example. | 7 |
| | b) | What are the major features that differentiate OLTP from OLAP. Elaborate. | 6 |
| 9. | a) | Explain dimension table and fact table in data warehousing. | 7 |
| | b) | State the different quality parameters. And explain some data cleansing techniques. | 6 |

OR

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| 10. | a) | Explain miscellaneous issues in data staging. | 7 |
| | b) | Explain different data warehouse operations. | 6 |
| 11. | a) | State and explain the task in managing the existing data warehouse. | 7 |
| | b) | Explain end user application development. | 7 |

OR

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| 12. | a) | Explain the process of data warehouse evaluation in detail. | 7 |
| | b) | Explain in detail steps involved in designing the data warehouse. | 7 |
