Roll No. ....

67172

M.C.A. 4th Semester
(with new notes)

Examination–May, 2015

Data Warehousing & Mining (New)

Paper-MCA-402

Time : 3 hours   **Max. Marks : 80**

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard will be entertained after the examination.

Note : Question No. **1** is **compulsory**. Attempt **four** more questions selecting **one** question from each unit. All questions carry equal marks.

1. Answer the following questions briefly :

$$[8 \times 2 = 16]$$

  (a) Why Data Warehouse is needed?

  (b) Discuss OLAP operations.

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(c) Explain two advantages of HOLAP.

(b) Discuss architecture of Data Warehouse briefly.

(e) Explain data summarization briefly.

(f) Discuss horizontal partitioning with an example.

(g) Define data generation and reduction.

(h) What is star schema? How is it useful ?

UNIT-I

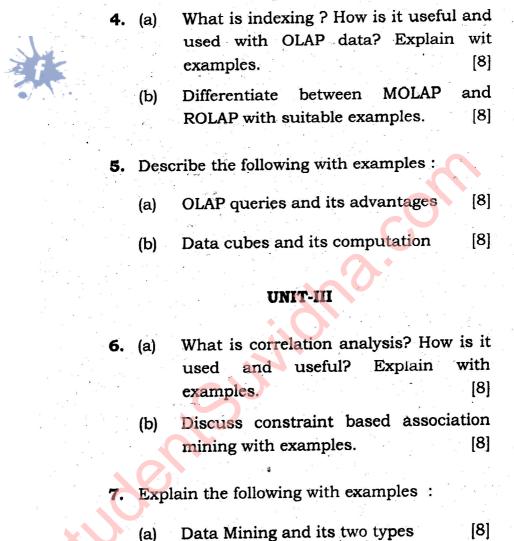2. (a) Define Data Warehouse? How is it useful and used? Discuss its characteristics with suitable examples.

[10]

(b) Discuss design and advantages of data marts with suitable examples. [6]

3. Explain the following briefly with suitable examples :

(a) Schemas for multidimensional databases [8]

(b) Data Warehouse architecture [8]

UNIT-II

4. (a) What is indexing ? How is it useful and used with OLAP data? Explain wit examples. [8]

(b) Differentiate between MOLAP and ROLAP with suitable examples. [8]

5. Describe the following with examples :

(a) OLAP queries and its advantages [8]

(b) Data cubes and its computation [8]

UNIT-III

6. (a) What is correlation analysis? How is it used and useful? Explain with examples. [8]

(b) Discuss constraint based association mining with examples. [8]

7. Explain the following with examples :

(a) Data Mining and its two types [8]

(b) Data integration, reduction and transformation. [8]

UNIT-IV

8. (a) What is cluster analysis? How it is used and useful? Discuss with examples. [8]

   (b) Define temporal data mining? Discuss its uses and advantages with examples. [8]

9. Explain the following with examples :

   (a) Web mining and its advantages [8]

   (b) Classification, its types and advantages [8]

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