

**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 :

[8×2=16]

- (a) Why Data Warehouse is needed?
- (b) Discuss OLAP operations.

- (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 : <http://www.HaryanaPapers.com>

(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 with 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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