

**B.SC. (I. T.) SEM. - VI (2011 COURSE) : SUMMER - 2018**  
**SUBJECT : ELECTIVE – I: DATA WAREHOUSING & DATA MINING**

Day : **Saturday**  
Date : **26/05/2018**

Time : **10.00 am to 12.00 Noon**  
Max. Marks : 40

**S-2018-0990**

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**N.B.:**

- 1) Attempt **ANY FOUR** questions.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Draw neat and labeled diagrams **WHEREVER** necessary.
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- Q.1** a) Explain the various characteristics of Data Warehouse. **[05]**
- b) Explain 'Enterprise data model' in detail. **[05]**
- Q.2** a) Differentiae between OLAP and OLTP. **[05]**
- b) Differentiate between 'Normalization and Denormalization'. **[05]**
- Q.3** What is ETL? Explain the concept of ETL in detail with complete processing. **[10]**
- Q.4** Elaborate the process of Data mining. **[10]**
- Q.5** Explain various commands and functions used in 'Statistical / Analytic and OLAP SQL queries. **[10]**
- Q.6** Explain the following: **[10]**
- a) Materialized views
  - b) Decision tree

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