

**B.SC. (I. T.) SEM. - VI (2011 COURSE) : WINTER - 2017**  
**SUBJECT : ELECTIVE – I: DATA WAREHOUSING & DATA MINING**

Day : **Thursday**  
Date : **28/12/2017**

**W-2017-0883**

Time : **02.30 PM TO 04.30 PM**  
Max. Marks : 40

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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 architecture of 'Data Warehouse'. **[05]**
- b) What do you mean by 'Clustering' in data mining? **[05]**
- Q.2** a) Differentiate between 'logical design' and 'physical design'. **[05]**
- b) Differentiate between 'Normalization' and 'Denormalization'. **[05]**
- Q.3** What do you mean by OLAP? Explain various processes/methods used in OLAP in detail. **[10]**
- Q.4** What is 'Decision Support System'? How Data Warehouse is used with DSS? Explain. **[10]**
- Q.5** What is ETL? Explain the concept of ETL in detail with complete processing. **[10]**
- Q.6** Explain the following: **[10]**
- a) Star schema
  - b) Snow flake schema

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