

SUBJECT: DATA WAREHOUSING AND DATA MINING

Day: Friday  
Date: 30/11/2018

Time: 10.00 am to 01.00 pm  
Max. Marks: 60

**W-2018-1160**

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**N.B:**

- 1) Attempt **ANY SIX** questions.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Draw neat diagram **WHEREVER** necessary.
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- Q.1** Draw and explain: 'Star Schema' and 'Snowflake Schema' while taking suitable example. (10)
- Q.2** Explain the process of Extract Transform Load (ETL) in detail. (10)
- Q.3** What is 'Enterprise Data Model'? Explain OLAP process and operations in detail. (10)
- Q.4** Explain Statistical and Analytical OLAP SQL queries with examples. (10)
- Q.5** What are 'Frequent Itemsets'? Explain the usage of 'Apriori Algorithm' with suitable scenario. (10)
- Q.6** Compare OLAP with OLTP in detail. (10)
- Q.7** What is Data warehouse? What are the characteristics of DWH? Discuss various issues while implementing DWH. (10)
- Q.8** What is Data Mart? Why enterprise would require them? Explain various advantages of Data Mart. Draw architecture for an enterprise, which utilizes data mart for seamless information processing. (10)

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