

**B.C.A. (2010 COURSE SEM- VI : SUMMER - 2018**

**SUBJECT: DATA WAREHOUSING AND DATA MINING**

Day : **Saturday**  
Date : **28/04/2018**

**S-2018-1744**

Time: **10.00 AM TO 01.00 PM**  
Max. Marks: 70.

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**N.B.:**

- 1) Q. No. 1 is **COMPULSORY**.
  - 2) Attempt any **FOUR** questions from Q. No. 2 to Q. No.7.
  - 3) Figures to the **RIGHT** indicate full marks.
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- Q.1** Explain an application of data mining in financial data analysis. (14)
- Q.2** What is a Data Warehouse? Explain the need for a separate Data warehouse apart from operational systems. (14)
- Q.3** Explain why data cleaning and data transformation functions are considered to be a vital task in data integration process. (14)
- Q.4** "Clustering is called unsupervised classification." State true or false and justify. (14)
- Q.5** What is classification? Explain classification by Decision Tree induction with an example. (14)
- Q.6** What are the various OLAP operations performed to mine data from data warehouse? Briefly explain each of them. (14)
- Q.7** Write short notes on any **TWO** of the following: (14)
- a) Data marts and types of data marts
  - b) K-means clustering algorithm
  - c) Market Basket Analysis.

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