

**B.C.A. (2010 Course Sem- VI : SUMMER - 2019)**  
**SUBJECT: DATA WAREHOUSING AND DATA MINING**

Day : Tuesday  
Date : 30/04/2019

**S-2019-2109**

Time 10.00 AM TO 01.00 PM  
Max. Marks: 70

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**N.B.:**

- 1) Q-1 is compulsory.
  - 2) Attempt any 4 questions from Q-2 to Q-7
  - 3) Figures to the right indicate full marks.
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- Q.1** Discuss how to develop an efficient implementation of data mining system for web mining. (14)
- Q.2** Why should data be preprocessed in a data mining application? List various data pre-processing techniques and explain the purpose of each technique. (14)
- Q.3** List and explain the following OLAP operations, with the help of an example. (14)  
i) Roll up ii) Drill down iii) Slice and Dice iv) Pivot
- Q.4** What is a data mart? Explain the different types of data marts in detail. (14)
- Q.5** How data mining systems are classified? Discuss each classification with an example. (14)
- Q.6** Define decision tree. Explain decision tree development algorithm with an appropriate example. (14)
- Q.7** Write short notes on (ANY TWO) (14)  
a) Data cube  
b) Attribute selection measures  
c) Characteristics of Data warehouse

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