

Roll No. 

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Total No. of Pages : 01

Total No. of Questions : 08

**M.Tech.(CSE) PT (2015 to 2017) EI-I (Sem.-4)**  
**DATA WAREHOUSING AND DATA MINING**  
**Subject Code : MTCS-207**  
**M.Code : 72891**

Time : 3 Hrs.

Max. Marks : 100

**INSTRUCTIONS TO CANDIDATES :**

1. Attempt any FIVE questions out of EIGHT questions.
2. Each question carries TWENTY marks.

1. In Data warehouse, How does multidimensional data cube look like? Explain its various operations.
2. a. What kind of data patterns can be mined?  
b. Explain the Apriori algorithm and its usage.
3. Why is naive Bayesian classification called “naïve”? Briefly outline the major ideas of naïve Bayesian classification.
4. How basic data analytic methods are done in R ?
5. Present the condition under which density -based clustering is more suitable than partitioning-based clustering and hierarchical clustering. Give some application examples to support your answer.
6. a. What is web usage mining?  
b. How is web content mining done?
7. Explain the search engine architecture. How is the ranking of web pages done?
8. Explain the following terms in brief :
  - a. ETL
  - b. Star schema
  - c. Differentiate between classification and prediction
  - d. Split algorithm based on information theory