

**SUBJECT CODE :- 59**  
**FACULTY OF ENGINEERING AND TECHNOLOGY**  
**B.E. (CSE/IT) Examination Nov/Dec 2015**  
**Data Ware Housing & Data Mining**  
**(OLD)**

[Time: Three Hours]

[Max. Marks: 100]

“Please check whether you have got the right question paper.”

N.B i) Attempt any three questions from each section.

ii) Assume suitable data wherever necessary.

**SECTION-A**

- Q.1 A What is decision support system? Explain the ingredients of DSS in detail. 08  
B Give basic architecture for a data ware house. 08
- Q.2 A Why data preprocessing is important in a data warehouse? Explain its steps in detail. 08  
B Differentiate between operational and informational systems. 08
- Q.3 A Elaborate different OLAP operations in multidimensional data model. 08  
B Discuss fact constellation schema with an example. 08
- Q.4 A What is the role of meta data in data ware housing? How does meta data differ from catalogue in RDBMS. 08  
B Explain the challenge in creating and maintaining a data warehouse. 08
- Q.5 Write short notes on (any three) 18  
a) Mining multimedia databases  
b) Data granularity  
c) Snowflake schema  
d) Data reduction techniques

**SECTION-B**

- Q.6 A What are applications of clustering? How do you cluster objects using k-means algorithm? 08  
B Elaborate classification by decision tree with suitable example. 08
- Q.7 A What is concept description? Explain data generalization and summarization based characterization. 08  
B How data mining is useful in scientific data analysis. 08
- Q.8 A What is cluster analysis? Discuss types of clustering methods. 08  
B What is the role of data mining in object oriented databases. 08
- Q.9 A Discuss market-basket analysis using association rule mining. 08  
B Explain the problem of large data sets containing structured and semi structured data. 08
- Q.10 Write short notes on (any three) 18  
a) Mining telecommunication networks  
b) Statistical measures mining  
c) Dimension hierarchy  
d) OLAP