

- Q.15 Write a short note on Apriori algorithm used in Association rule mining.
- Q.16 Define Cluster Analysis. Write any five desired features of Cluster Analysis.
- Q.17 Define Data Processing in Data Mining. Write various steps involved in Data Processing.
- Q.18 What is an association rule in Data Mining?

### **SECTION-C**

- Note:** Long answer type questions. Attempt any one questions out of two questions. (10x1=10)
- Q.19 Explain any three data warehouse models with their advantages and disadvantages.
- Q.20 Write short note on following:
- Dependent and Independent Data Marts
  - Data Cubes and their Implementations

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**DVOC (Level-5) Sem. 2nd  
(Software Development)**

**Subject : Concepts of Data Mining**

Time : 2 Hrs.

M.M. : 50

### **SECTION-A**

**Note:** Multiple choice Questions. All questions are compulsory (10x1=10)

- Q.1 A data warehouse is which of the following:
- Can be updated by end users.
  - Contains numerous naming conventions and formats.
  - Organized around important subject areas.
  - Contains only current data.
- Q.2 Which of the following can be considered as the correct process of Data Mining?
- Infrastructure, Exploration, Analysis, Interpretation, Exploitation
  - Exploration, Infrastructure, Analysis, Interpretation, Exploitation
  - Exploration, Infrastructure, Interpretation, Analysis, Exploitation
  - Exploration, Infrastructure, Analysis, Exploitation, Interpretation

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Q.3 How many types of OLAP servers?  
a) 1                          b) 2  
c) 3                          d) 4

Q.4 A data cube consists of  
a) Dimensional data  
b) Multidimensional data  
c) No dimensional data  
d) Procedural data

Q.5 Which of the following process uses intelligent methods to extract data patterns?  
a) Data mining              b) Text mining  
c) Warehousing              d) Data selection

Q.6 What are the chief functions of the data mining process?  
a) Prediction and characterization.  
b) Cluster analysis and evolution analysis  
c) Association and correction analysis classification  
d) All of the above

Q.7 What is association rule mining?  
a) Same as frequent itemset mining  
b) Finding of strong association rules using frequent item sets  
c) Using association to analyze correlation rules  
d) Finding Item sets for future trends

Q.8 Which of the following is not a type of association rule?  
a) Positive rule              b) Negative rule  
c) Sequential rule            d) Inverse rule

Q.9 The primary use of data cleaning is:  
a) Removing the noisy data  
b) Correction of the data inconsistencies  
c) Transformations for correcting the wrong data  
d) All of the above

Q.10 KDD stands for?  
a) Knowledge Discovery Database  
b) Knowledge Definition Data  
c) Knowledge Data Discovery  
d) Knowledge Data Definition

## SECTION-B

**Note:** Short answer type questions. Attempt any six questions out of Eight questions. (6x5=30)

- Q.11 What is OLAP? Write any five characteristics of OLAP.
- Q.12 Define Data Warehouse. What is the need of developing a data warehouse?
- Q.13 Differentiate between OLAP and OLTP (Minimum five Differences).
- Q.14 Explain the Naive Bayesian Classification algorithm.