1 Answer in brief:

(1) Explain any two OLAP operations on data of Data warehouse.

(2) Define the term: Data Integration. Also give an example.

(3) Define the term Confidence w.r.t. Association rule mining.

(4) Which kind of pre-processing needs to be done in order to bring data in to format required for Association Rule Mining?

(5) What kind of data is more suitable for classification?

(6) What is Prediction? Explain giving example.

(7) Give any two applications of Clustering.

2 Answer in detail: (any two)

(a) What is Data warehouse? How it differs from Database.

(b) Explain ETL process for data warehousing in brief.

(c) What is Single and Multidimensional Data model? Why Multidimensional Data model is more suitable for Data warehouse?
3 Answer in detail : (any two)

(a) What is data pre-processing? Why it is needed? Explain Data Reduction and Data Transformation in brief.

(b) Write notes on following:

(i) Data Mining related Query Language

(ii) Concept Description

(c) Define and differentiate the terms: Data Generalization and Data Characterizations. Also give example for both.

4 Answer in detail : (any two)

(a) Define the terms: Association and Association rule. What is association Rule Mining? What are the Applications of Association rule mining?

(b) Explain the process of deriving Single-Dimensional Boolean Association Rule from transactional Databases.

(c) Explain any two Applications of Association Rule Mining. Also explain how association rules are useful in Classification.

5 Answer in detail : (any two)

(a) Explain Decision Tree Induction based classification.

(b) Explain any two methods if Clustering in detail.

(c) Define and differentiate:

(i) Classification and Clustering

(ii) Bayesian classification and Association Rule based classification.