DWDM External Important Questions

UNIT –1

1. Discuss in detail about the steps of knowledge discovery?.
2. Explain the three tier Data Warehouse architecture with neat diagram
3. Illustrate Schemas available in Multidimensional Data model with neat sketch.
4. Explain different OLAP operations in multidimensional data
5. Outline Applications of Data Mining
6. What are the major issues in Data Mining? Explain briefly
7. Explain kinds of Patterns can be mined? (or) Explain Data Mining Functionalities?

UNIT– 2

1. Explain different data preprocessing techniques
2. What is data cleaning? Describe the approaches to fill missing values.
3. What is data normalization? Explain normalization methods.
4. Describe the problem of data quality with some examples. Explain the usage of feature subset selection in data pre-processing.
5. Discuss about Cosine similarity measure in detail
6. What is noisy data? Explain the binning methods for data smoothening.
7. What is Data Reduction? Explain Data reduction techniques
8. Describe Data Visualization Techniques

UNIT – 3

1. Define Classification. General approach to solve a classification problem (Steps in Data Classification).
2. Explain Induction and deduction tasks in classification.
3. Illustrate Decision tree algorithm with an example(Any Training Data Set will be given; You have to classify the data set according to Decision Tree algorithm-ID3,HUNT's).
4. Explain Attribute Selection Measures with example (Information Gain, Gain Ratio,Gini index)
5. Describe Model Overfitting (Tree Pruning) in Classification.
6. Decision tree algorithm (or ID3 algorithm).
7. Explain Scalability for Decision Tree Induction

UNIT– 4

1. Define Association and explain market basket analysis in detail.
2. Define Frequent itemset, Support, Confidence in detail.
3. Describe Apriori algorithm with an example. (join and prune steps also)
4. Explain Frequent Pattern(FP) growth algorithm with an example.
5. Compact Representation of Frequent Item Sets.
6. Any Transaction data will be given. You have to apply apriori and FP growth algorithms/ Apriori algorithm.

UNIT– 5

1. Define Cluster and importance of cluster analysis.
2. Discuss Types of Clustering.
3. Illustrate K- means clustering algorithm with an example.
4. Example problems on K- means clustering.
5. Explain Bi-Secting K Means with example