

**QUESTION BANK (DESCRIPTIVE)****Subject with Code:** Data Warehousing and Data Mining (19MC9120)**Course & Branch:** MCA**Year & Sem.:** II & II**Regulation:** R19**UNIT – I****Introduction, Data Preprocessing**

1	Explain Major issues in Data Mining and Classification of Data Mining	[L2][CO1]	[12M]
2	Explain Data Preprocessing Techniques	[L2][CO1]	[12M]
3	Explain the following concepts a) Relational Databases b) Outlier Analysis c) Numerosity Reduction	[L2][CO2]	[04M] [04M] [04M]
4	Explain Mining Frequent Patterns and Associations.	[L2][CO2]	[12M]
5	Explain Advanced Data and Information Systems and Advanced Applications	[L2][CO3]	[12M]
6	Briefly discuss about the following a) What is Data Mining? Explain Data Mining Task Primitives? b) Explain Data Reduction Techniques.	[L1][CO1] [L2][CO5]	[6M] [6M]
7	Explain the following concepts a) Describe Data Integration and Transformation? b) Explain Data cleaning as a process and Correlations.	[L6][CO1] [L2][CO1]	[06M] [06M]
8	Explain about a) Noisy Data b) Attribute Subset Selection c) Cluster Analysis d) Classification and Prediction	[L2][CO1]	[03M] [03M] [03M] [03M]
9	Explain about a) Explain DM Functionalities & what kind of pattern can be mined. b) Explain Data Discretization and Concept hierarchy generation.	[L2][CO1] [L2][CO1]	[06M] [06M]
10	Explain the following. a) Describe Data Warehouses and its Importance. b) Explain Data Descriptive Data Summarization.	[L6][CO1] [L2][CO1]	[06M] [06M]

UNIT – II
Data Warehouse and OLAP Technology for Data Mining,
Data Cube Computation and Data Generalization

1	Explain the following a) What is indexing OLAP data? b) Explain Multidimensional Data Model.	[L1][CO1] [L2][CO4]	[06M] [06M]
2	Briefly discuss about the following a) Explain Data Warehouse Implementation. b) Describe Meta Data Repository?	[L2][CO1] [L6][CO1]	[06M] [06M]
3	Explain Data Warehouse Architecture.	[L2][CO1]	[12M]
4	Discuss the following. a) What is Star net Query Model for Querying? b) Describe from Data Warehousing to Data Mining	[L1][CO5] [L6][CO1]	[06M] [06M]
5	Explain the following a) Describe efficient methods for Data cube Computation b) Explain BUC: Computing Iceberg Cubes from the Apex Cuboid Downward.	[L6][CO5] [L2][CO3]	[06M] [06M]
6	Describe about the concept a) Explain Constrained Gradient Analysis in Data Cubes b) Write Pre computing Shell Fragments for Fast High-Dimensional OLAP.	[L2][CO1] [L6][CO3]	[06M] [06M]
7	Discuss about the following a) Describe Attribute Oriented Induction. b) Explain Data Generalization and Concept Description.	[L6][CO2] [L2][CO1]	[06M] [06M]
8	Explain about the following a) Explain Mining Class Comparisons and Class Description. b) Describe Complex Aggregation at Multiple Granularities.	[L6][CO1] [L6][CO4]	[06M] [06M]
9	Explain Star-Cubing: Computing Iceberg Cubes.	[L2][CO2]	[12M]
10	Write Data cube computation and Data Generalization?	[L6][CO1]	[12M]

UNIT – III**Mining Frequent Patterns, Associations and Correlations, Classification and Prediction**

1	Explain basic concepts of Mining frequent patterns.	[L2][CO1]	[12M]
2	Explain scalable frequent item set Mining methods.	[L2][CO2]	[12M]
3	Write a brief description about a) What is Clustering methods and high dimensional data? b) Explain Time series and sequenced data.	[L1][CO3] [L2][CO1]	[06M] [06M]
4	Explain Bayesian and Rule based Classification with examples.	[L2][CO2]	[12M]
5	Write a brief description on a) Explain Classification by Decision Tree Induction. b) Explain Classification by Back propagation.	[L2][CO1] [L2][CO1]	[06M] [06M]
6	Write a short note on a) Describe issues regarding classification and prediction. b) Explain Accuracy and Error measures.	[L6][CO1] [L2][CO2]	[06M] [06M]
7	Briefly explain about a) Explain Classification and Prediction b) Explain Ensemble Methods.	[L2][CO1] [L2][CO3]	[06M] [06M]
8	Explain about a) Describe support vector Machines? b) Describe Associative Classification.	[L6][CO2] [L6][CO2]	[06M] [06M]
9	Describe Mining Data Streams and Lazy Learners.	[L6][CO2]	[12M]
10	Explain about the following a) Explain the evaluating the accuracy of a Classifier and Predictor. b) Explain from Association Mining to Correlation Analysis.	[L2][CO1] [L2][CO2]	[06M] [06M]

UNIT – IV**Cluster Analysis Introduction, Mining Streams**

1	Discuss about a) What is Partitioning Methods? b) Explain the types of Data in Cluster Analysis?	[L1][CO2] [L2][CO1]	[06M] [06M]
2	Explain about a) Explain Mining Data Streams. b) Describe Constraint based Cluster Analysis.	[L2][CO1] [L6][CO2]	[06M] [06M]
3	Explain Clustering High Dimensional Data.	[L2][CO3]	[12M]
4	Explain the following a) DENCLUE b) Wave Cluster c) DBSCAN	[L2][CO3]	[12M]
5	Explain the Mining Time-Series Data.	[L2][CO1]	[12M]
6	Explain about the following a) What is Outlier Analysis? Explain it clearly. b) Describe Density based Outlier detection	[L2][CO3] [L1][CO3]	[06M] [06M]
7	Briefly discuss about the following a) What are biological sequences and hidden Markov Model? b) Explain Multi relational Data Mining.	[L2][CO4] [L1][CO4]	[06M] [06M]
8	Explain the Graph Mining and Social Network Analysis	[L2][CO5]	[12M]
9	Discuss on a) Explain Mining Sequence Patterns in Biological Data. b) Explain Hierarchical Methods.	[L6][CO5] [L1][CO5]	[06M] [06M]
10	Explain the Grid based methods.	[L2][CO5]	[12M]

UNIT – V**Mining Object, Spatial, Multimedia, Text and Web Data, Applications and Trends in Data Mining**

1	Briefly explain about the following a) What is Generalization of Structural Data? b) Explain the Spatial Data Mining.	[L1][CO1] [L2][CO2]	[06M] [06M]
2	Explain the following concept a) Explain the Multimedia Data Mining. b) Describe Data Mining Applications.	[L2][CO4] [L6][CO1]	[06M] [06M]
3	Explain the Text Mining and its Importance.	[L2][CO5]	[12M]
4	Explain about the following a) Explain Mining the World Wide Web. b) Explain Additional Themes on Data Mining.	[L2][CO5] [L1][CO5]	[06M] [06M]
5	Describe Social Impacts on Data Mining.	[L6][CO5]	[12M]
6	Explain Data Mining and Collaborative Filtering.	[L2][CO1]	[12M]
7	Discuss about a) Describe Generalization of Class Composition Hierarchies. b) Explain the Dimensionality Reduction for text.	[L6][CO2] [L2][CO2]	[06M] [06M]
8	Discuss about the following a) Explain the concept of Multidimensional Analysis b) Describe about Descriptive Mining of Complex data objects.	[L2][CO4] [L6][CO5]	[06M] [06M]
9	Write about the following a) Explain briefly about Data Mining Applications b) Describe about Data Mining System Products	[L2][CO1] [L6][CO1]	[06M] [06M]
10	Discuss about the following concept a) Discuss about Data Mining of Research Prototypes b) Explain about Additional Themes on Data Mining	[L6][CO3] [L2][CO5]	[06M] [06M]

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