

SHAHEED BHAGAT SINGH STATE TECHNICAL CAMPUS, FEROZEPUR

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Total number of questions:07

MCA/ 6th Sem

Data Warehousing and Data Mining

Subject Code: MCA 601

(RC)

Paper ID : M/18

(2015 batch)

Max Marks: 60

Time allowed: 3 Hrs

Important Instructions:

- All questions are compulsory

PART A (2×10)

Q. 1. Short-Answer Questions:

- What is big data?
- Why data preprocessing is needed?
- List data warehousing applications.
- Differentiate classification and prediction.
- What is Bayesian Belief Network?
- What are the fields in which clustering techniques are used?
- What is Clustering?
- What are two strategies to increase classifier accuracy?
- What are meta data and its importance?
- Define temporal granularity.

PART B (8×5)

Q. 2. What is a Data Warehouse? Discuss in detail the need for a data warehouse

CO1

OR

What are the components of Data Warehouse? Discuss its architecture.

CO1

Q. 3. What do you mean by temporal data and temporal data warehouse? What are the essential characteristics of temporal data and temporal data warehouses?

CO2

OR

Explain various data mining functionalities.

CO2

Q. 4. What are the different types of data used in cluster analysis? Explain in brief each one with an example.

CO3

OR

What is genetic algorithm? Explain its working.

CO3

Q. 5. State Baye's theorem and explain Bayesian belief network in detail.

CO3

OR

What do you mean fuzzy logic? How fuzzy approach helps in data mining.

CO3

Q. 6. Explain DBSCAN method.

CO4

OR

Elaborate the multi-dimensional data model with temporal extension.

CO4