

2015 Batch onwards

Regular

118 + 4 = 122

SHAHEED BHAGAT SINGH STATE TECHNICAL CAMPUS, FEROZEPUR

ROLL No:

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Total number of pages: 02

Total number of questions: 06

B.Tech. || CSE || 6th Sem

Data Warehousing & Mining

Subject Code: BTCS-604A

Paper ID:

Time allowed: 3 Hrs

Max Marks: 60

Important Instructions:

- All questions are compulsory
- Assume any missing data
- Draw neat and clean diagrams wherever necessary

PART A (2×10)

Q. 1.

- (a) Why data pre-processing is required?
- (b) What are spatial systems?
- (c) What is temporal granularity?
- (d) Compare clustering and classification.
- (e) What is a multi-dimensional model?
- (f) What is the use of cluster analysis?
- (g) List the data mining primitives.
- (h) What is data discretization?
- (i) What is meant by k-nearest neighbor classification?
- (j) List some of the applications of data mining.

PART B (8×5)

Q. 2. What is a data warehouse? What is its need? Explain its architecture with the help of a block diagram.

OR

How a spatial data warehouse is different from a database. Explain the architecture of spatial systems.

Q. 3. What is a temporal data warehouse? Why it is used. Discuss the conceptual model for a temporal data warehouse.

OR

What type of data is stored in a temporal data warehouse? What are its data types? Discuss the temporal extension of the multidimensional database

Q. 4. What is data mining? Explain the major classifications of data mining systems?

OR

Write down the various steps involved in data mining. Describe the major issues in data mining.

Q. 5. What is concept description? Explain the process of data generalization and summarization?

OR

What is meant by pattern? Explain the interestingness, presentation and visualization of patterns?

Q. 6. What are association rules? Describe constraint based association mining?

OR

Describe the different types of data used in cluster analysis?