

Hall Ticket Number:

Y I 9 A C S 4 2 1

III/IV B.Tech (Regular / Supplementary) DEGREE EXAMINATION

January, 2022

Fifth Semester

Time: Three Hours

Computer Science & Engineering
Data Warehousing and Data Mining

Maximum: 50 Marks

Answer Question No.1 compulsorily.
Answer ONE question from each unit.

(10X1 = 10 Marks)

(4X10=40 Marks)

1. a) What is a transactional database? CO1
 b) Define data cleaning. CO1
 c) Define concept Hierarchy. CO1
 d) What is Data Mart? CO2
 e) Define Min-Max Normalization. CO2
 f) How to compute support measure for an Itemset? CO2
 g) What is meant by frequent Itemset? CO2
 h) Define strong association rule. CO3
 i) What are the binary and nominal attributes? CO3
 j) What is a Dissimilarity matrix? CO3
- Unit -I
2. a) Define Data Mining. Describe the important tasks of data mining. CO1 5M
 b) What are the types of data? Differentiate among structured and unstructured data with suitable examples. CO1 5M
- (OR)
3. What is data pre-processing? Explain why it is essential to pre-process the data before mining. CO1 10M
 Explain in detail about various preprocessing techniques.
- Unit -II
4. a) List out the OLAP operations and explain the same with an example. CO2 5M
 b) Explain multidimensional data model with a neat diagram. CO2 5M
- (OR)
5. a) Write short notes on summarization-based characterization. CO2 5M
 b) What is Data mart? Describe the process of conversion from On-Line Analytical Processing to On-Line Analytical Mining. CO2 5M
- Unit -III
6. a) Define Association rule mining and explain how Apriori algorithm works with suitable example. CO3 5M
 b) How market basket analysis helps in finding the associations among different items? Explain with an example. CO3 5M
- (OR)
7. a) Elaborate the steps for improving the efficiency of Apriori algorithm. CO3 5M
 b) Explain FP-Growth algorithm for suitability of mining frequent patterns. CO3 5M
- Unit -IV
8. a) Define clustering. Explain about cluster analysis. CO4 5M
 b) Discuss K-means algorithm with a neat diagrams. CO4 5M
- (OR)
9. a) Differentiate between agglomerative and divisive hierarchical clustering. CO4 5M
 b) Explain briefly about outlier analysis. CO4 5M