| USN | CBCS SCHEME | 18CS641 |
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| Sixth Semester B.E. Degree Examination, July/August 2022 | | |
| Data mining and Data wateriousing | | |
| Tim | Max. M | arks: 100 |
| Note: Answer any FIVE full questions, choosing ONE full question from each module. | | |
| 1 | a. With a neat diagram, explain a Three – Tier Data Warehouse. b. List and explain Data Warehouse Models. | (10 Marks) (10 Marks) |
| 2 | a. With suitable example, explain Star schema , Snow Flake schema , Fact of schema for Multidimensional database.b. Explain OLAP Operations with example. | Constellation (10 Marks) (10 Marks) |
| 3 | a. Explain OLAP Data indexing for Bitmap Index and Join index. b. Differentiate ROLAP, MOLAP and HOLAP Servers. | (10 Marks) (10 Marks) |
| 4 | OR a. Explain Data – preprocessing steps and the challenges faced in Data Mining. b. Briefly explain Similarity and Dissimilarity between the objects. Find the SMC a coefficient of Two binary vectors. X = (1, 0, 0, 0, 0, 0, 0, 0, 0, 0) Y = (0, 0, 0, 0, 0, 0, 0, 0, 0, 1). | (10 Marks) and Jacquard (10 Marks) |
| 5 | a. Explain the rule generation in Apriori Algorithm with example. | (10 Marks) |
| | b. Explain the Alternative method for generating frequent itemset. | (10 Marks) |
| 6 | a. Briefly explain FP growth algorithm.b. Explain the objective measure of Interestingness for evaluating association patter | (10 Marks) rns. (10 Marks) |
| 7 | a. With a neat block diagram, explain general approach to solve classification pr | oblems with |
| | application.b. Explain with example, how to build decision tree using Hunt's algorithm. | (10 Marks) (10 Marks) |
| 8 | a. Explain different method for comparing classifier.b. Explain the rule based classifier with example. | (10 Marks) (10 Marks) |
| 9 | a. Describe K – means clustering algorithm. What are its limitations? b. With example, explain Agglomerative Hierarchical clustering with example. | (10 Marks) (10 Marks) |
| 10 | a. With Time and Space complexity, explain DBSCAN Clustering Algorithm. b. Explain the BRICH Scalable Algorithm. | (10 Marks) (10 Marks) |
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