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Code No: 126EW

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## JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year II Semester Examinations, May - 2017 DATA WAREHOUSING AND DATA MINING

(Information Technology)

Time: 3 hours Max. Marks: 75 **Note:** This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions. PART - A **(25 Marks)** What is the significance of Data warehousing? 1.a) [2] How Data mining is different from KDD? [3] b) What is Star Schema? c) [2] Describe the features of OLTP systems. [3] d) What is Data Transformation? e) [2] What are the principles of APRIORI algorithms? f) [3] Describe Decision Tree construction. [2] g) How to measure best split of any classification? h) [3] What are the key issues in Hierarchical clustering? i) [2] i) Give an overview of Outlier Detection. [3] PART - B (50 Marks) 2. Explain in detail about 3 tier Data Warehousing architecture with a neat sketch. [10] 3. Describe the architecture of OLTP with its operation. [10] What are the challenges of KDD? 4.a) Discuss about Dimensionality Reduction. b) [5+5]5. Explain the basic Data mining tasks with example. [10] 6. Briefly discuss about different partition algorithms with an example. [10] 7.aWhat is Frequent Item Set Generation? Explain. Explain the compact representation of Frequent Item Data Set. b) [5+5]What are the general approaches to consider for solving classification problem? 8.a) Describe about different classification techniques. b) [5+5]OR How to evaluate any classifier model, which was build for classification. 9.a) Discuss about KNN classification. b) [5+5]Explain with example how clustering can be with large databases. 10. [10]

Discuss about K-means clustering algorithm step by step with an example.

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