

**Code No: 157BC****JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD****B. Tech IV Year I Semester Examinations, July/August - 2022****DATA MINING****(Common to CSE, IT)****Time: 3 Hours****Max.Marks:75****Answer any five questions  
All questions carry equal marks**

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- 1.a) Write short notes on data mining task primitives.  
b) Discuss in detail about data preprocessing. [7+8]
2. Explain the following:  
a) Integration of data mining system with a data warehouse.  
b) Classification of data mining systems. [7+8]
- 3.a) How do you find frequent patterns in data mining? Explain.  
b) Explain constraint based association mining. [7+8]
- 4.a) What are the measures of association rule mining? Explain.  
b) Write short notes on SPM. [8+7]
- 5.a) Compare the methods of classification and prediction.  
b) How to evaluate performance of classification model? Explain. [7+8]
6. Discuss in detail about rule-based classification. [15]
- 7.a) Explain K-means algorithm with an example.  
b) What are the key issues in hierarchical clustering? [9+6]
8. Explain the following:  
a) Spatial data mining.  
b) Mining sequence patterns in transactional databases. [7+8]

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