**PARUL UNIVERSITY - Faculty of Engineering & Technology**

**ASSIGNMENT-1**

**Subject Name:** Data mining and Data Visualization

|  |  | **CO** | **PO** |
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| Q-1 | What do you mean by data mining? Explain with an example. |  | 1 |
| Q-2 | What do you mean by data, information and knowledge? |  | 1 |
| Q-3 | Enlist and explain different data pre-processing techniques. |  | 2 |
| Q-4 | What are the major issues encountered in data mining? |  | 1 |
| Q-5 | What are the disadvantages of data mining? |  | 1 |
| Q-6 | Enlist 5 applications in data mining. |  |  |
| Q-7 | Explain in detail with a diagram- Knowledge discovery process from a database. |  |  |
| Q-8 | Explain different types of normalization methods in data pre-processing. |  |  |
| Q-9 | Explain different functionalities of data mining. |  |  |
| Q-10 | For the given transaction table, find the frequent itemsets and association rules using Apriori algorithm. Consider minimum support=2, minimum confidence=60%.   | TID | Itemsets | | --- | --- | | T1 | I1, I2, I3 | | T2 | I2, I4 | | T3 | I2, I3 | | T4 | I1, I2, I4 | | T5 | I1, I3 | | T6 | I2, I3 | | T7 | I1, I3 | | T8 | I1, I2, I3, I5 | | T9 | I1, I2, I3 | |  |  |

**ASSIGNMENT-2**

**PPT presentation on different topics of Data Mining and Data Visualization in groups of 3.**

**ASSIGNMENT-3**

**Division wise surprise test/quiz in the form of google form after completion of 70% syllabus, i.e. 4 chapters.**