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JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATIONS-2022

B.Tech-VI Semester (IT/IT Minor)

COURSE CODE: 18B11CI613

MAX. MARKS: 15

COURSE NAME: Data Mining

COURSE CREDITS: 03

MAX. TIME: 1 Hour

*Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means. Marks are indicated against each question in square brackets.*

Q1. Explain KDD process with suitable diagram? What are different research challenges in front of data mining community? Give one examples of each. [3+2]

Q2. Explain Z-score along with its need? Write the expression for the same. Do the normalization of the attribute age (10, 20, 30, 40, 50) using the following techniques: (i) Min-Max Normalization in the range [5, 10]. (ii) Normalization by decimal scaling. [2+2+1]

Q3. Explain IQR method to handle noise/outliers. Find the noise/outliers in the following attribute using IQR method: Age (10, 16, 11, 7, 4, 4, 4, 12, 17, 25, 14, 0). [2+3]