JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

TEST -1 EXAMINATION- FEB-2023

COURSE CODE(CREDITS): 18B11CI613 (3)　　　　　　　　MAX. MARKS: 15

COURSE NAME: Data Mining

COURSE INSTRUCTORS:　Dr. Pardeep Kumar　　　　　　MAX. TIME: 1 Hour

Note: All questions are compulsory. Marks are indicated against each question in square brackets.

Q1. Consider the following data: Age= {4, 8, 15, 21, 21, 24, 25, 28, 34}. Apply the following techniques for data transformation:

　(i)　　Min Max Normalization with range {-5,5}
　(ii)　　Z-Score Normalization
　(iii)　Normalization by decimal scaling

[CO-2][2+2+1]

Q2. 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).　　　[CO-2] [2+3]

Q3. Explain KDD Process in detail with suitable diagram. Explain hold out process and over fitting with suitable example. Suggest one method to get rid of over fitting.

[CO-1] [3+1+1]