

DATA AND TEXT MINING

DOCUMENTATION RESEARCH AND TRAINING CENTRE, ISI-BC

MID-TERM EXAMINATION (2026)

Total Marks: 40

Time: 90 mins.

ANSWER ALL

1. Define [3]
 - Intelligence
 - Data
 - Intelligent computing with data
2. What is data mining, and why is it required? [3]
3. What are the challenges with human data analysis, and major challenges of the data mining process? [3+4]
4. Discuss the differences in the process of data mining and databases with examples. [7]
5. Why is data pre-processing so important? Explain any four types of pre-processing approaches with examples. [2+4]
6. What does Knowledge Discovery in Databases (KDD) refer to? Provide a complete flow process with discussion. [6]
7. Find and draw the BOX-and-WHISKER plot analysis for the following data set [4]
 $X=[4.3, 5.1, 3.9, 4.5, 4.4, 4.9, 5.0, 4.7, 4.1, 4.6, 4.4, 4.3, 4.8, 4.4, 4.2, 4.5, 4.4]$
8. What is the relation among mean, median and mode of symmetric, negatively and positively skewed data? [4]

=====END of the Question Paper=====