DATA AND TEXT MINING

DOCUMENTATION RESEARCH AND TRAINING CENTRE, ISI-BC

MID TERM EXAMINATION (2023)

Total Marks: 40 Time: 90	mins.
ANSWER All	
 Explain the major issues in Data Mining operations. Find the L¹, L² and L[∞] norm of a pattern F = [-4,10,-7,9,5]. Also find the unit vector of F. Name TWO significances of Eigen values and Eigen vectors in a database 	[4] [3+2]
of 10 samples and 5 features for each sample.	[2]
4. Describe the two differences in the database management and data mining operations	[2]
 What is the process of Knowledge Discovery in Databases? Describe each of its operation diagram. 	on with [4]
 Describe the conditional and decision attributes of a data base with examples. What are symmetric and asymmetric binary attributes? Explain with examples. 	[2] [2]
 Plot the locations of MEAN, MEDIAN and MODE in a symmetric, positively skewed and negatively skewed data set. Differentiate between feature selection and feature extraction operations in a decision process. 	[3] making [2]
9. Find the mean and variance vector of xx =	[2+2]
4 5 3 3 2 3 3 2 4 1 0 7 2 3 4 5 7 8 7 9 4 3 7 6 2 1 1 1 0 8	
10. What is interquartile range and find it for the following vector.	
 X=[12, 5, 22, 30, 7, 36, 14, 42, 15, 53, 25] 11. Differentiate between Histogram and Box And Whisker Plot of a database 	[1+3] [4]
 Differentiate the process of decision-making using classification and clustering operations. 	[2]