INDIAN STATISTICAL INSTITUTE

(MS-QMS)_2020

MID-SEMESTER EXAMINATION

(Pattern Recognition)

Maximum Marks: 30

Note: Answer all question
Describe four different types of attribute with examples and provide their mathematical properties. [4]
Describe with examples and equations; the measures of Location, spread, Shape and dependency. [1x4]

3. Describe the motivations of standardization and normalization of data sets? Give at least one method of performing these operations [2+2]

4. Differentiate between BOX-and-WHISKER plot and Histogram plot. Which plot is more informative? [4]

5. Find the variance-covariance matrix of XX [6]

Duration: 90 minutes

- 6. Define two properties of probability distribution function and variance-covariance matrix. [4]
- 7. Why we go for data pre-processing? Discuss any FIVE pre-processing steps. [4]