Q.2   b.   Define and briefly explain each of the following data mining functionalities: characterization, discrimination, association, prediction
Answer: Page Number 22-23 of Text Book

Q.3   a.   What is a data Warehouse? What are the characteristics of a data warehouse that differentiate it from other data repository systems?
Answer: Page Number 105-106 of Text Book

             b.   Explain star and snowflake schema by giving example.
Answer: Page Number 114-115 of Text Book

Q.4   a.   Explain the procedure for class comparison.
Answer: Page Number 211 of Text Book

             b.   Explain any four optimization techniques for the efficient computation of data cubes.
Answer: Page Number 158 of Text Book

Q.5   b.   How to handle Missing values and Noise in the data cleaning process.
Answer: Page Number 61 of Text Book

             c.   Use z – score normalization to normalize the following group of data:
                  200, 300, 400, 600, 1000
Answer: Page Number 71 of Text Book

Q.6 a.   Explain classification methods. How it is done by back-propagation?
Answer: Page Number 324, 329 of Text Book

             b.   How does tree pruning work? Explain with examples two common approaches to tree pruning – pre pruning and post pruning.
Answer: Page Number 304-306 of Text Book

Q.7   b.   What is boosting? State why it may improve the accuracy of decision tree induction.
 Answer: Page Number 367-368 of Text Book

Q.8   a.   Briefly describe the following approaches to clustering:
                  Density – based, grid – based, model – based and partitioning
Answer: Page Number 398-400 of Text Book

             b.   How can you compute the dissimilarity between (i) objects described by ratio –scaled variables (ii) objects of mixed variable types? Give suitable example to explain.
Answer: Page Number 394-395 of Text Book

TEXT BOOK

Data Mining, Concepts and Techniques, Jiawei Han and Micheline Kamber, Elsevier,
Second Edition.