Hall Ticket No Question Paper Code: AIT006



INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

B.Tech VI Semester End Examinations (Regular), November – 2020

Regulation: IARE-R16

DATA WAREHOUSING AND DATA MINING

Time: 2 Hours (CSE | IT) Max Marks: 70

Answer any Four Questions from Part A Answer any Five Questions from Part B

PART - A

Explain the schemas for multi-dimensional databases.
What are data mining primitives? Explain briefly.
[5M]

3. Explain the association rule mining? [5M]

4. What are the advantages of FP-growth algorithm? [5M]

5. Write short notes on multimedia data mining. [5M]

6. Enumerate three categories of measures, based on the kind of aggregate functions used in computing a data cube. [5M]

7. Summarize the various issues that have to be addressed during data integration. [5M]

8. Explain any two techniques for assessing classifier accuracy. [5M]

PART - B

- 9. What are the differences between three main types of data warehouse usage: information processing, analytical processing and data mining. [10M]
- 10. Suppose that a data warehouse consists of the four dimensions, date, spectator, location and game, and the two measures, count and charge, where charge is the fare that a spectator pays when watching a game on a given data. Spectators may be students, adults or seniors with each category having its own charge rate. Draw a Star schema diagram for the data warehouse. [10M]
- 11. Why preprocess of the data is done? Discuss issues to consider during data cleaning. [10M]
- 12. List the various stages of knowledge discovery process with a diagram. Explain how data mining is a part of knowledge discovery process. [10M]
- 13. What is market basket analysis? Explain association rules with confidence & support. [10M]
- 14. Illustrate about frequent item set? Write the Apriori algorithm for frequent item set generation? Describe with an example [10M]
- 15. What is decision tree? Explain how classification is done using decision tree induction. [10M]
- 16. Develop an algorithm for classification using Bayesian classification and illustrate the algorithm with relevant example. [10M]
- 17. What is an outlier? Explain different techniques for mining distance based outlier detection. [10M]
- 18. How agglomerative hierarchical clustering works? Explain with an example. [10M]