53 (IT 701) DMDW

2018

DATA MINING AND DATA WAREHOUSING

Paper: IT 701 (Back)

Full Marks: 100

Time: Three hours

The figures in the margin indicate, full marks for the questions.

Answer any five questions.

- 1. (a) What is Decision Tree Induction?

 Explain basic algorithm for inducing a decision tree from a training tuples.
 - (b) What is Prediction? Discuss the use of regression techniques for prediction.
- 2. (a) Describe the methods for the generation of concept hierarchies for categorical data.

- What is Multimedia database? Explain (b) the methods of mining multimedia database.
- Describe the various functionalities of (a) 3. Data mining as a step in the process of knowledge discovery. 10
 - Explain the Apriori algorithm. Also (b) explain how the association rules are generated from frequent item sets.

10

- (a) Discuss briefly the different steps in 4. preprocessing of data. 10
 - What is meant by dimensionality (b) reduction? Discuss any two methods. 10
- (a) Describe the Data Cube Technology 5. with an example. 10
 - Discuss the mapping of data warehouse (b) to multiprocessor architecture.

10

Describe the different methods for data (a) 6. cleaning. 10

- (b) Describe the role of data mining in spatial database. 10
- 7. Write short notes on:

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- (i) K-means algorithm
- (ii) K-medoid algorithm
- (iii) Outlier detection
- (iv) FP-growth tree algorithm.

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