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Roll No

IT-840

B.E. VIII Semester

Examination, June 2016

Data Mining and Warehousing

(Elective-IV)

Time: Three Hours

Maximum Marks: 70

- Note: i) Answer five questions. In each question part A, B, C is compulsory and D part has internal choice.
 - ii) All parts of each questions are to be attempted at one place.
 - iii) All questions carry equal marks, out of which part A and B (Max.50 words) carry 2 marks, part C (Max.100 words) carry 3 marks, part D (Max.400 words) carry 7 marks.
 - iv) Except numericals, Derivation, Design and Drawing etc.

Unit - I

- 1. a) What is Data mart? What are the types of data mart?
 - b) What are steps involved in clean and transformation of data?
 - c) List the contexts of dimension table.
 - d) Draw the data warehouse architecture and explain its components.

OR

Give reason, why it is necessary to separate data warehouse from operational database.

Unit - II

- 2. a) What is the difference between OLTP and data warehouse?
 - b) List the difference between OLAP and OLTP.
 - c) How can the data warehouse data be accessed efficiently?
 - d) Discuss the methods for efficient computation of data cubes.

OR

Write short notes on

i) ROLAP

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ii) MOLAP

PTO

Unit - III

[2]

- a) List any four data mining application.
 - b) Write the difference between data base and knowledge base.
 - c) What are goals of web usage mining?
 - Explain in detail about text mining applications.

OR

What is data mining functionality? Explain different types of data mining functionality with examples.

Unit - IV

- a) Define support and confidence in association rule mining.
 - b) What are the latest treads in association rules mining.
 - c) Define FP-growth algorithm.
 - d) Explain the algorithm for mining frequent item sets without candidate generation for the given dataset minimum support value is 2.

TID	Items bought
100	(a, c, d, f, g, i, m, p)
200	(a, b, c, f, l, m, o)
300	(b, f, n, j, o, w)
400	(b, c, k, s, p)
500	(a, f, c, e, l, p, m, n)
	OR

Describe the algorithm for time series mining association rules.

Unit - V

- 5. a) What is meant by outlier?
 - b) How is the zero frequency problem handled in naive bayes classifier?
 - c) List out difference between clustering and classification.
 - d) What is Clustering? Briefly describe the partitioning and hierarchical clustering methods. Give examples in each case.

OR

Discuss in detail about the Bayesian and decision tree classifier.

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