

BCACAC 212

Credit Based Third Semester B.C.A. Degree Examination, October/November 2016 (Common to All Batches) DATA MINING

Time: 3 Hours

Max. Marks: 80

Note: Answer any ten questions from Part A and one full question from each Unit in Part B.

PART-A

 $(10 \times 2 = 20)$

- 1. a) Define Data Mining.
 - b) Define Data Cube.
 - c) What is deviation detection?
 - d) Define the terms Confidence and Support.
 - e) Define FP-tree.
 - f) Differentiate Numerical and categorical clustering.
 - g) What are Gain Ratio and Gini Index?
 - h) Define Rough Set.
 - i) What is Entropy?
 - j) What is Page Rank?
 - k) What do you mean by Sequence Analysis?
 - I) What is episode discovery?

PART-B

Unit - I

- 2. a) Explain the following OLAP operations with neat diagrams.
 - i) Drill up
- ii) Dicing.
- b) What is Data Mart ? Explain its types.
- c) Explain Data Warehouse Back end Process.

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3. a) Explain different Data Warehouse Schema.	
b) Explain the various stages of KDD.	
c) Briefly explain any four application fields of Data Mining.	(5+5+5)
Unit – II	
4. a) Explain Apriori algorithm with an example.	
b) Explain briefly hierarchical and partitioning clustering.	outsets.
c) Write a brief note on CLARA.	(5+5+5)
5. a) Explain Partition algorithm with an example.	5055
b) Explain the principle of Tree Construction.	
c) Explain ID3 decision tree algorithm.	(5+5+5)
Unit – III	Classianise (d
6. a) Explain the following terms:	remail at his No. (C
i) Information System	
ii) Indiscernibility Relation.	
b) Explain the typical artificial neurons with activation function	n.
c) Describe the learning technique in Mutli Layer Perceptron.	(5+5+5)
7. a) Explain Rough Set Theory.	ouni alteriM
b) Explain RBFN with a neat diagram.	Vientis Pace
c) Explain the Support Vector Machines.	(5+5+5)
Unit – IV	
8. a) Explain the types of Web Usage mining.	
b) Write a note on web structure mining.	
c) Explain Sequence mining with suitable example.	(5+5+5)
9. a) Explain different features of unstructured text.	
b) Explain different types of temporal data mining.	sisOnistoria in Data
c) Explain Episode discovery.	(5+5+5)
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