Code No.: 3168

FACULTY OF INFORMATICS

B.E. IV/IV Year (IT) I Semester (Main) Examination, December 2010

DATA WAREHOUSING & DATA MINING

	m.	(Elective – II)	7.5		
	Tim	Answer all questions from part A. Answer and five questions from part B.	75		
		Part A – (Marks, 25)			
	1.	Define any three Data mining functional functions. (1 Unit)	3		
	2.	Why we preprocess the data? Give any 3 reasons. (1 Unit)	3		
	3.	Why we kept Data warehouse separately from the operational databases?(2 Uni	t)2		
	4.	Define the following terms. (2 Unit)	3		
		(a) Frequent Itemsets (b) Frequent subsequences			
		(c) Frequent Substructures.			
	5.	Define classification and prediction. (3 Unit)	2		
	6.	State the principle of Cluster Analysis. (4 Unit)	2		
	7.	What is meant by single dimension Association Rule and Multi dimensional Association Rule? Give examples. (2 Unit)	3		
	8.	What is meant by Supervised learning and unsupervised learning? (4 Unit)	2		
	9.	Define Text mining and www mining. (5 Unit)	2		
	10.	Define the following OLAP operations . (2 Unit)	3		
		(a) Slice (b) Dice (c) Pivot			
Part B – (Marks: 50)					
	11.	(a) Explain Data Mining functionalities. (1 Unit)	5		
		(b) Explain any three Data cleaning techniques. (1 Unit)	5		
	12.	(a) Explain three-tier data warehousing architecture. (2 Unit)	7		
		(b) Explain data warehouse applications. (2 Unit)	3		

13. (a)	Explain Apriori Algorithm with example. (2 Unit)	6
(b)	Explain different methods for improving the efficiency of Apriori (2 Unit)	Algorithm.

(b) How does the Naive Bayesian classification works? Explain. (3 Unit)

Compute the Euclidean distance between the two objects.

Explain Data Integration Techniques. (1 Unit)

17. (a) Explain similarity search in Multimedia data. (5 Unit)

(b) Explain different methods for data transformation. (1 Unit)

Explain Mining Associations in multimedia Data. (5 Unit)

Compute the Manhanttan distance between the two objects.

(iii) Compute the Minkocoski distance between the two objects using p = 3.

(22,1,42,10) & (20,0,36,8)

(i)

15. Given two objects represented by the tuples. (4 Unit)

14. (a) Describe the data classification process with a neat diagram. (3 Unit)

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