Code No: 126VW

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech III Year II Semester Examinations, December - 2018 DATA WAREHOUSING AND DATA MINING (Information Technology)

Time: 3 hours

Max. Marks: 75

(25 Marks)

Note: This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

PART - A

1.a)	What is a data warehouse? How is it differs from DBMS?	[2]
b)	How to index OLAP data?	[3]
c)	Define dimensionality reduction.	[2]
d)	Explain attribute subset selection.	[3]
e)	What are frequent patterns? Give an example.	[2]
f)	How are meta rules useful in data mining?	[3]
g)	What is associative classification?	[2]
h)	How is prediction different from classification?	[3]
i)	What is categorical variable?	[2]
j)	What are interval-scaled variables?	[3]

PART - B

(50 Marks)

2.a)	Give examples for defining star, snowflake and fact constellation schemas.	
b)	Discuss about a three-tier data warehouse architecture.	[5+5]
,	OR	
3.a)	What are the various types of OLAP servers? Explain.	
b)	Describe the measures of multidimensional data model.	[5+5]
4.	Discuss about discretization and concept hierarchy generation for numerical data.	[10]
	OR	
5.a)	Describe the process of data cleaning.	
b)	Write a brief note on relational databases.	[5+5]
6.	Can we design a method that mines the complete set of frequent item sets v	vithout
	candidate generation? Explain with example.	[10]
	OR	
7.	Explain in detail about multilevel association rules.	[10]
8.	Why is naive Bayesian classification called "naive"? Briefly outline the major ic	leas of
	naive Bayesian classification. Explain Naive-Bayes classification.	[10]
	OR	
9.a)	What are the methods for expressing attribute test conditions? Explain.	

Write an algorithm for the second structure of attributes describing each tuple. b) [5+5]

10.a)	What are typical requirements of clustering in data mining? Explain.	
b)	How does the PAM algorithm work? Explain.	[5+5]
	OR	
11.a)	What are key issues in hierarchical clustering? Explain.	
b)	Explain about the basic Agglomerative Hierarchical clustering algorithm.	[5+5]

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