Code No: 5458AR

R17

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
M. Tech II Semester Examinations, June/July - 2019
DATA WAREHOUSING AND DATA MINING
(Computer Science and Engineering)

Time: 3hrs

Max.Marks:75

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

5 × 5 Marks = 25

1.a)	Discuss the steps involved in knowledge discovery from data.	[5]
b)	What are support vector machines? Give the applications of SVMs.	[5]
c)	What is clustering? Classify various types of clustering algorithms.	[5]
d)	What is web content mining? Explain.	[5]
e)	What are data mining applications? Explain.	[5]

PART - B

5 × 10 Marks = 50

2.a)	Explain the concepts characterization and discrimination.	
b)	What is a cluster? Explain about cluster analysis.	[5+5]
	OR	
3.	Explain the data-cube based and clustering based quantitative associations.	[10]
4.	Explain the multilayer feed-forward neural networks with an example.	[10]
	OR	
5.a)	Explain the steps of associative classification.	
b)	Discuss the fuzzy set approach for classification.	[5+5]
6.a)	What is grid based clustering? Explain about any one grid based clustering algorithm.	
b)	Discuss the extrinsic methods to determine the cluster quality.	[5+5]
	OR	
7.a)	Discuss the problems and challenges in clustering high dimensional data.	
b)	Discuss the applications and challenges of clustering graph and network data.	[5+5]
8.a)	What is text mining? Explain about unstructured text mining.	
b)	Explain the episode rule discovery for texts.	[5+5]
	OR	
9.	What is web structure mining? Explain.	[10]
10.	What is temporal data mining? Explain the Temporal association rules.	[10]
	OR	
11.a)	What is event prediction problem? Explain.	
b)	Explain the GSP algorithm.	[5+5]

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