# Code No: 117CD

# **R13** JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B. Tech IV Year I Semester Examinations, November/December - 2016 DATA WAREHOUSING AND DATA MINING (Computer Science and Engineering)

### **Time: 3 Hours**

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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

		(25 Marks)
12	1.a) Define Data ware housing.	
	b) Differentiate OLAP, ROLAP and HOLAP.	[3]
	c) Discuss about subset selection	[2]
	d) Mention any three measures of Similarity.	[3]
	e) Define Association rule mining two step processes.	[2]
	f) Write short note on support and confidence measures.	[3]
	g): Mention types of classifier techniques.	[2]
	h) Define Pre pruning and post pruning.	[3]
	i) Discuss on Agglomerative and Divisive clustering techniques.	[2]
	j) Mention the various types of clustering methods.	[3]

#### **PART-B**

2.	Explain da	ata mini	ing as ä step	process of 1	cnowledge discove	(50 Marks) ry. Mention the	
	runctionam	ues of Da	ata mining.			[10]	
3	Differentiet	0		OR			
<i>3</i> . 4.	schema and Explain the pre-processi	fact co various	nstellation schen	systems and conas.	s. How data reduc	Explain the star [10] tion helps in data [10]	
. • .				OR		[~~]	
5. 6.	How can the Explain vari How can we Explain. Illu	ne data ous.oper e mine strate wi	cube be efficient ations of a Data multilevel Asso th an A-priori al	Cube. ciation rules et gorithm for the	d for discovery-dri	ven Exploration? [10] concept hierarchies? v. [10]	
		TID	List of items	3	7		
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/.)	and idate generation? If	od that min yes, explain	es the comp with example	lete set e table	of frequent mentioned at	item sets without pove. [10]	
8. I E	Describe the data class Bayesian classification w	ification pr orks? Expla	ocess with a un. OR matrix	neat c	liagram. Hov	w does the Naive [10]	
9 v	ree Induction classificati	lain the var on techniqu	ious predictione.	on techi	niques. Expla	in about Decision [10]	
10. W	What are outliers? Discus	s the metho	ds adopted fo	r outlier	r detection.	[10]	
11::S cl	tate K-means algorithm lusters by taking the init	n. Apply k- ial cluster co	means algori	thm wi ects 1 ar	th two-iterat	tions to form two	
* •		Subject	А	В			
			1.0 1.5	1.0 2.0			<ul> <li>ζ</li> <li>δ</li> <li>δ</li></ul>
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		6	4.5	5.0			
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