Total No	o. of Questions : 10]	EAT No.:
P3979	9 [5561]-683	[Total No. of Pages : 3
	B.E. (Computer Engg.)	
	DATA MINING AND WAREHOU	USING
	(2015 Course) (Semester - I) (Elective -	I) (410244D)
<i>T</i> : 21		OM M 1 70
	1½ Hours] ions to the candidates:	[Max. Marks: 70
1)	Solve Q.1 or Q.2, Q.3 or Q.4, Q.5 or Q.6, Q.7 or Q.8.	
2)	Assume suitable data, if necessary.	
3) 4)	Neat diagrams must be drawn wherever necessary.  Figures to the right indicates full marks.	·60.
4)	rigures to the right thatcates full marks.	
01)		1 1 141
<b>Q1)</b> a)		X.O
b)	Explain data cleaning techniques.	[6]
	OR OR	
<b>Q2)</b> a)	Explain types of attributes with examples.	[4]
b)	Suppose a group of 12 sales price records has b	een sorted as follows:[6]
	5, 10, 11; 13; 15, 35, 50; 55; 72; 92; 204; 215:	
	Partition them into three bins by each of the fol	lowing methods.
	i) equal-frequency partitioning	C
	ii) equal-width partitioning	
<b>Q3)</b> a)	Explain data discretization techniques.	[4]
b)	Explain OLAP operations in Multidimensional	data model. [6]
	OR	
<b>Q4)</b> a)	Explain following:	[4]

Briefly compare the following concepts. You may use an example to

Snowflake schema, fact constellation, starnet query model

Minskowski Distance

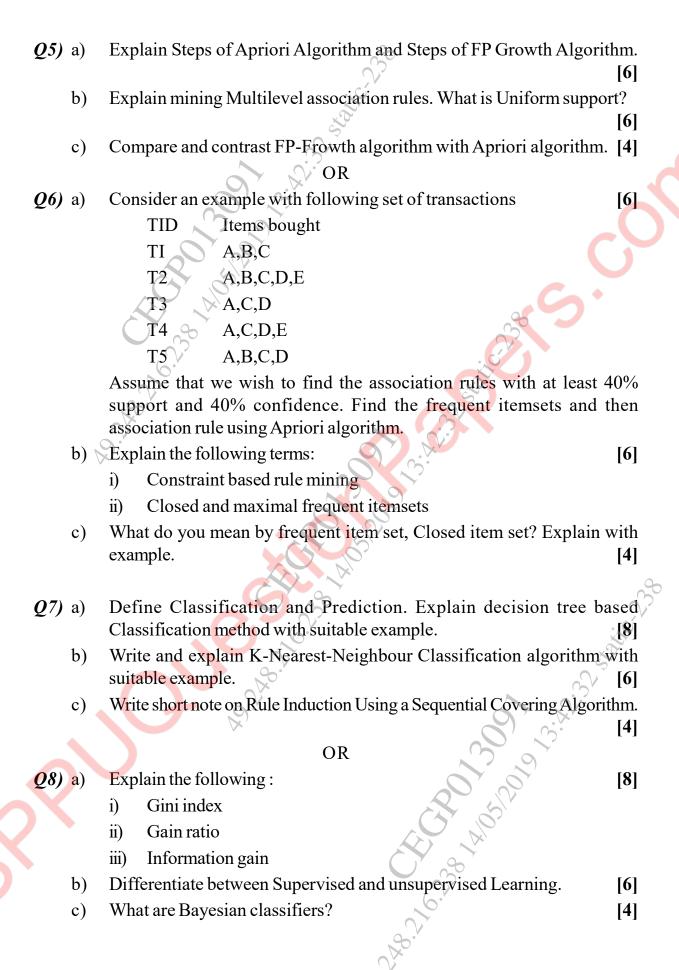
Euclidean distance

explain your point(s).

i)

b)

[6]



<b>Q9)</b> a)	Explain following with example	[8]
	i) Accuracy	
	ii) Error Rate	
	iii) Sensitivity	
	iv) Specificity	
b)	Describe following.	[8]
	i) Multiclass classification	
	ii) Reinforcement learning	$\sim$
	OR	
<b><i>Q10)</i></b> a)	Explain in detail following techniques to evaluate the accuracy	-
	Classifier.	[8]
	i) Holdout method	
	ii) Random subsampling	
b)	Explain following.	[8]
	i) Multi-perspective learning	
•	ii) Wholistic learning	
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