		Reg. No							
		Question Paper Co	de: 59204						
	B.E./	B.Tech. DEGREE EXAM	INATION, SE	– EP 2020)				
		Elective							
		Computer Science and	Engineering						
		15UCS904- DATA	MINING						
		(Regulation 20	015)						
Dur	ration: One hour	6 Marks)	Ma	aximı	um: :	30 N	1arks		
	(A	Answer any Six of the following	lowing Questi	ons)					
1.	Which of the followin	g is not a data mining met	ric					CO	1-
	(a) Space complexity	(b) Time complexity	(c) ROI	(d) All	of tl	ne at	ove	
2.	Strategic value of data	mining is						CO	1-
	(a)Cost-sensitive		(b) Work-se	ensitive	•				
	(c) Time- sensitive		(d) Technic	al- sen	sitive	;			
3.	Principal component a	nalysis is a technique for J	performing?					CO	2-
	(a) Sampling		(b) Discretiz	zation					
	(c) Dimensionality red	(d) Aggregation							
4.	Online transaction processing is used because							CO	2-
	(a) It is efficient		(b) Disk is u	used fo	r stoı	ring	files		
	(c) It can handle rando	(d) Transactions occur in batches							
5.	If a store has N items, the number of possible item sets is							CO	3-
	(a) 2N-1	(b) N-1	(c) N/2	(d	l) No	ne of	f the	abov	'e
6.	The absolute number of	of transactions supporting	X in T is called	d		_		CO	3-

(c) Support count (d) None of the above

(a) Confidence

(b) Support

7.	If T consist of 500000 transactions, 20000 transaction contain bread, 30000 transaction contain jam, 10000 transaction contain both bread and jam. Then the support of bread and jam is								
	(a) 2%	(b) 20%	(c) 3%	(d) 30%					
8.	For support vectors Xj in a hard margin SVM, we have CO4-								
	(a) $ WTXi+b =0$	(b) $ WTXi+b < 1$	(c) WTXi+t	p=1 (d) None of the	ne above				
9.	If the hyper plane WTX+b=0WTX+b=0 separates all the training points $(Xi,Yi)(Xi,Yi)$, where $yi=\{+1,-1\}yi=\{+1,-1\}$, then:								
	(a) $ W = 0$	(b)b = 0	(c)WTXi+b≥0∀	i (d) yi(WTXi+b)≥0∀i				
10.	In a multiclass classification problem, Bayes classifier assigns an instance to the class corresponding to								
	(a) Highest aposteriori probability		(b) Highest apri						
	(c) Lowest aposteriori probability		(d) Lowest apric						
$PART - B (3 \times 8 = 24 Marks)$									
		(Answer any Three of	f the following Qu	estions)					
11.	Explain data mining task primitives and functionalities.				(8)				
12.	Explain the various systems on which data mining can be done.			. CO1- U	(8)				
13.	Explain the process of data cleaning.			CO2- U	(8)				
14.	Explain various kinds of Association Rules Mining. CO3				(8)				
15.	Briefly outline the major steps of decision tree classification CO4-								