			Time: 3 hou	ırs		Max. Marks:	80
N.B.	(2) Attemp	n one is Compu t any 3 question e suitable data i	ns out of the	remaining.	, Payling,	Stelling Stills	
Q. 1	(a) Expla	in features of da	ta warehouse.		A ST	, Se (	)5
		nstrate with diag					)5
	(c) What	is Market basket	analysis?				)5
	(d) Expla	in with example	confusion ma	trix, accurac	cy and precision		)5
Q. 2 a	a) Suppose t	that a data wareh	ouse for Big_	University of	consists of the fo	our dimensions	
	where coustudent.  Perform  i. Do  ii. Cr  O  b) What is comining ta  {2, 4, 10,	following tasks esign the star sclereate a base cube LAP operations. lustering? Explask is to cluster the 12, 3, 20, 30, 11 an ETL process in	e of students and the Food for the Big win K-mean clube following in , 25}. Apply	nd average g  Big_University  ustering algo tems into tw	trade is the cour ity. database and ap orithm.Suppose o clusters.	oply different that the data	10 0 10
Q. 3	b) Consid	n ETL process in der the transaction priori Algorithm	on database gi		2 and min-conf		0
	to find	frequent itemse	t andstrong as	ssociation ru	les.	\$ 1	0
	TID	Items	70 07				
	10	1, 3, 4	2 200				
	20	2, 3, 5					
	30	1, 2, 3, 5			7, 6		
	40	2,5			St. PL		
	50	1, 3, 5	10				
Q. 4 a	Show ho	any one classific ow we can classi = <b>Average</b> ).				=Employed,	10
3	Sr. No	Homeowner	Status	Income	Defaulted		
	, M	Ves	Employed	High	No		

mcome-	- Average).			
Sr. No	Homeowner	Status	Income	Defaulted
1	Yes	Employed	High	No
2	No Business		Average	No
3	No	Employed	Low	No
4	Yes	Business	High	No
5	No	Unemployed	Average	Yes
6	No 🛇	Business	Low	No
7 8	Yes	Unemployed	High	No
8	No	Employed	Average	Yes
9	No	Business	Low	No
10	No	Employed	Average	Yes

b) What is web mining? Explain web content mining in detail

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Q. 5	a) Explain different data cleaning techniques.
	b) Clearly explain the working of DBSCAN algorithm using appropriate diagram
Q.6	a) Explain Multidimensional and multilevel rule mining with example.
	b) Explain with example different data sampling techniques.

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