С		Reg. No. :											
	[Question Pape	er (Cod	e: 5	5802	2						
B.E. / B.Tech. DEGREE EXAMINATION, NOV 2023													
		Fifth S	leme	ster									
		Information	n Teo	chno	logy								
	15UIT502	2 - DATA WAREHO	OUS	ING	ANI	D DA	TA	MIN	IING	ſ			
		(Regulat	tion	2015	5)								
Dura	ation: Three hours	Answer AL	.LQ	uest	ions			Ν	Maxi	mum	n: 10	0 Ma	ırks
		PART A - (5	x 1 =	= 5 N	Aark	s)							
1.	Which schema contains normalization process										CO	1- R	
	(a) Star	(b) Snowflakes	(c) Fa	ict C	onste	ellati	on	((d) R	ing		
2.	Identify the factor is u	factor is used in data preprocessing										CO	2- R
	(a) Incomplete	(b) Inconsistent	(c) N	oisy			((d) A	ll of	the	abov	e
3.	Mention the approach	to correlate two attr	ibut	es								CO	3- R
	(a) Chi-Square	(b) Pearson's Produ	ıct	(c)	Cost	ine		((d) A	ll of	the	abov	e
4.	The object doesn't comply with general properties is called as							CO4- R					
	(a) Gird model	(b) Outlier	(c) D	ensit	y mo	del		((d) C	luste	er	
5.	Which data refers the	nich data refers the sequence of primary type							CO5- F				
	(a) Spatial	(b) Temporal	(c) Ro	elatic	onal			((d) E	ntity	7	
		PART – B (5	x 3=	15	Mark	(s)							
6.	Differentiate star and snowflake schema.										CO	1 - R	
7.	Mention the role of five number summaries.						CO2- R						
8.	Define decision tree.											CO	3- R
9.	What do you mean by types of data in cluster analysis?							CO4- R					
10.	Write the role of temp	oral association role.										CO	5- R

$PART - C (5 \times 16 = 80 \text{ Marks})$

11. (a) Explain the multidimensional data model operations with the CO1-U (16) following dimensions. Employee-name,duration,location

Or

- (b) (i) Compare OLTP and OLAP. CO1-U (6)(ii) Discuss the dataware house three tier architecture with neat CO1-U (10)diagram. 12. (a) (i) Write short notes on data mining functionalities. CO2- U (8)(ii) Illustrate how the data mining system is integrated with the CO2- U (8)data ware house system. Or
 - (b) Explain the data preprocessing steps of data integration and data CO2-U (16) reduction with suitable examples.
- 13. (a) Find all frequent item set using without candidate generation CO3- App (16) method for the following data set. Let min_sup=30%

TID	Items
1	E,A,D,B
2	D,A,C,E,B
3	C,A,B,E
4	B,A,D
5	D
6	D,B
7	A,D,E
8	B,C

Or

- (b) Apply back propagation classification algorithm with the three CO3- App (16) input layer, two hidden layer and one output layer for multi layer feed neural network. And also show net input, net output and updated weight with the sample weight values.
- 14. (a) Explain k-means partition clustering analysis approach with CO4- App (16) suitable examples and algorithms.

Or

(b) Discuss the gird based clustering method with the student CO4- App (16) database.

15. (a)		Discuss the web content mining with suitable examples.	CO5- U	(16)
		Or		
	(b)	Explain spatial clustering algorithm with suitable examples.	CO5- U	(16)