Printed Page:-		Subject Code:- AMTCSE0114	
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	NOIDA INSTITUTE OF ENGINEERING AND	TECHNOLOGY GREATER NOIDA	
	(An Autonomous]	Institute)	
	Affiliated to Dr. A.P.J. Abdul Kalam Technical M.Tech	University, Uttar Pradesh, Lucknow	
	SEM: I - THEORY EXAMINA	ATION (2021 - 2022)	
Time: 02	Subject: Data Warehousing	g & Data Mining Max. Marke: 70	
Time. 03	5.00 Hours	Wax. Warks. 70	
General In	nstructions:		
1. All o	questions are compulsory. It comprises of three Sec	ctions A, B and C.	
 Sect shor Sect Sect No s 	tion A - Question No- 1 is objective type question rt type questions carrying 2 marks each. tion B - Question No- 3 is Long answer type - I que tion C - Question No- 4 to 8 are Long answer type - sheet should be left blank. Any written material after	n carrying 1 mark each & Question No- 2 is very estions carrying 4 marks each. Il questions carrying 7 marks each. er a Blank sheet will not be evaluated/checked.	
	SECTION A	15	
1. Attempt	ot all parts:-		
1-a.	The data is stored, retrieved and updated in	(CO1) 1	
	1. OLAP		
	2. OLTP		
	3. SMTP		
	4. FTP		
1-b.	is the process of finding a model that	t describes and distinguishes data classes or 1	
	concepts. (CO2)		
	1. Data Characterization		
	2. Data Classification		
	3. Data Discrimination		
1 .	4. ORDBMS	anote item acts of a portion lange 1	
1-C.	size & scans.(CO3)	erate tem sets of a particular 1	
	1. Candidate.		
	2. Primary.		
	3. Secondary.		
	4. Superkey.		
1-d.	Which of the following is a predictive model? (Co)4) 1	
	1. Clustering		
	2. Regression		
	3. Summarization		
	4. Association rules		
1-e.	is a complex chemical process in	neural networks. (CO5) 1	
	1. Receiving process.		
	2. Sending process.		
	3. Transmission process.		

4. Switching process.

t an parts			
Distinguish between Data Mart & Meta Data? (CO1)	2		
Shortly described Data Transformations? (CO2)	2		
How can we handle missing values? (CO3)	2		
Define normalization. How do you normalize data using min-max normalization? (CO4)	2		
Discuss about k-nearest neighbor classification algorithm with an example? (CO5)	2		
SECTION B 20			
any <u>five</u> of the following:-			
What is Shared disk architecture? (CO1)	4		
What are the main features of OLAP? (CO1)	4		
Explain the data cleaning process in data pre-processing? (CO2)	4		
What do you understand by data aggregation and data generalization? (CO2)	4		
What is SVM. What do you mean by kernel in SVM ? (CO3)	4		
Distinguish between Boosting and Ada boosting? (CO4)	4		
Discuss about Spatial Data Mining? (CO5)	4		
SECTION C 35			
any <u>one</u> of the following:-			
Explain Normalization in detail and What are the different types of Normalization? (CO1)	7		
Explain how OLAP is used for analytical processing and also explain how it is related to Business Intelligence? (CO1)	7		
any <u>one</u> of the following:-			
Explain data integration, transformation and loading? (CO2)	7		
What is Apriori Algorithm explain in detail and also write the steps involved using a sample transaction data? (CO2)	7		
6. Answer any <u>one</u> of the following:-			
Explain the concept of classification in brief and also explain CURE and Chameleon clustering methods? (CO3)	7		
What is decision tree classification, explain its functionality and also write the steps involve in it? (CO3)	7		
any <u>one</u> of the following:-			
What are the Hierarchical methods of clustering and how they are classified to bottom-up and top-down approach? (CO4)	7		
What are Grid-Based methods. Explain STING in detail? (CO4)	7		
8. Answer any <u>one</u> of the following:-			
How will you do pattern mining in multilevel and multidimensional space explain in detail? (CO5)	7		
Explain about the three-tier Data Warehouse architecture with neat diagram and what is a metadata repository? (CO5)	. 7		
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