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				Subject Code: KOE093				093	
Roll No:									

BTECH (SEM VIII) THEORY EXAMINATION 2023-24 DATA WAREHOUSING & DATA MINING

TIME: 3 HRS M.MARKS: 100

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1.	Attempt all questions in brief.	2 x 10 =	= 20
Qno.	Question	Marks	CO
a.	Define Data Warehousing.	2	1
b.	Discuss the Fact Constellation.	2	1
c.	Explain Distributed DBMS implementation.	2	2
d.	Define Warehousing Software.	2	2
e.	Are all the patterns interesting?	2	3
f.	Differentiate between binary symmetric attributes and asymmetric attributes.	2	3
g.	Find the mode of the following dataset: 12,13,34,32,21,29,40,11,39,23. What is the advantage of mode over mean and median?	2	4
h.	Given two objects represented by the tuples (22, 2, 45, 10) and (20, 10, 26, 2): Compute the Manhattan distance between these two objects.	2	4
i.	What do you mean by Temporal Mining?	2	5
į.	Discuss Data Visualization.	20-	5

SECTION B

2.	Attempt any three of the following:	$10 \times 3 =$	30
a.	Write short notes on:	10	1
	i. Steps of Knowledge Discovery in data		
	ii. Explain Snow Flakes in detail.		
b.	Explain Market Basket Analysis.	10	2
c.	Draw the box-and-whisker plot of the following dataset: 4.3, 5.1, 3.9,	10	3
	4.5, 4.4, 4.9,5.0, 4.7, 4.1, 4.6, 4.4, 4.3, 4.8, 4.4, 4.2, 4.5, 4.4.		
d.	Cluster the following dataset with points (2,4), (6,8), (1,2), (4,5), (3,5)	10	4
	into two clusters using K-Means algorithm (using Euclidean distance		
	algorithm only).		
e.	Explain ROLAP, MOLAP and HOLAP in detail.	10	5

SECTION C

3.	Attempt any <i>one</i> part of the following:	$10 \times 1 =$	10
a.	How mapping a 2D table into multidimensional data model? Explain	10	1
	with suitable example.		
b.	Write short notes on:	10	1
	i. Data Characterization and Data Discrimination		
	ii.Snow Flakes in detail.		

4.	Attempt any one part of the following:	10 x 1=	10
a.	Differentiate between:	10	2
	(i) Min-Max and Z-score Normalization with examples		
	(ii) Binary data variables and Nominal data variables with examples		
b.	Explain the major components of Data Mining Architecture.	10	2



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5.	Attempt	any o	one part	of the	following:
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a.	Discu	ss Decision tre	e-based cla	assifiers in	n detail.		10	3				
b.		•		•		ım, student= yes,	10	3				
	credit	credit rating = fair) using Bayes Theorem.										
	RID age income student credit_rating Class:											
	KID	age	income	student	credit_rating	buys_computer						
	1	youth	high	no	fair no							
	2	youth	high	no	excellent	no						
	3	middle_aged	high	no	fair	yes						
	4	senior	medium	no	fair	yes						
	5	senior	low	yes	fair	yes						
	6	senior	low	yes	excellent	no						

6. Attempt any *one* part of the following:

 $10 \times 1 = 10$

a.	Explain	various	types	of	clustering	methods.	Discuss	any	one	10	4
	partitioni	ng cluste	ring alg	oritl	nm.	0					
b.	Discuss I	DBSCAN	cluster	ing	algorithm w	ith suitable	example.			10	4

7. Attempt any *one* part of the following:

 $10 \times 1 = 10$

7 •	Attempt any one part of the following.	10 4 1	10
a.	Differentiate between	10	5
	(a) OLAP and OLTP in detail.	Ω_{\bullet}	
	(b) Slice and Dice operations with an example.	3	
b.	Define Spatial Data? How mining of spatial data is done?	10	5
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