b. Explain frequent pattern mining without candidate generation.	12	2	4	1
32. a. Explain in detail about HARBOR – A highly available data warehou	use. 12	2	5	1
(OR) b. Explain with a illustration about data warehouse in Hewlett Packard	1. 12	2	5	1

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Reg. No.	٨							

## **B.Tech. DEGREE EXAMINATION, MAY 2023**

Fifth & Sixth Semester

## 18CSE487T – DATA WAREHOUSING AND ITS APPLICATION

(For the candidates admitted during the academic year 2018-2019 to 2021-2022)

Note: (i) (ii)	Part - A should be answered in OMR sheet within first 40 minutes and OMR sheet over to hall invigilator at the end of 40 <sup>th</sup> minute.  Part - B & Part - C should be answered in answer booklet.	shoul	d be	han	ded
Time: 3	hours	Iax. N	/Iark	s: 1	00
	$PART - A (20 \times 1 = 20 Marks)$	Marks	BL	со	PO
	Answer ALL Questions				
1	Which one of the following is not a type of data warehousing architecture?	1	1	1	1
1.	(A) Centralized (B) Distributed				
	(C) Hybrid (D) Unstructured				
2.	What are the benefits of using a data mart?	1	2	1	1
•	(A) Increased data security (B) Faster access to relevant data				
	(C) Improved data quality (D) Improved data accuracy				
3	DBA functions are handled by	1	2	1	1
3.	(A) DW administrator (B) Lead architect				
	(C) Data modeler (D) Business analyst				
4.	The requirement definition document should include the following information except	1	1	1	1
	(A) Available data source (B) Location of the data source				
	(C) Data extraction procedures (D) No data structure information				
5.	Data staging will perform	1	2	1	1
	(A) Data cleaning (B) DBMS feature				
	(C) Growth potential (D) External data source				
6.	Which of the following is an advantage of using a dimensional model for data warehousing?	1	2	2	1
	(A) It is easier to maintain and (B) It requires less storage space update				
	(C) It is optimized for transaction (D) It provides a normalized processing schema				
7.	Which of the following is a characteristic of a star schema in a dimensional model?	1	2	2	1
37	<ul> <li>(A) It contains multiple hierarchies (B) It is normalized</li> <li>(C) It has a single, central fact (D) It contains many-to-many table</li> </ul>				

8.	Whi	ich of the following is not a meta	data	management tool?	1	2	3	1
	(A)	Data dictionaries	(B)	Ontologies				
	(C)	Data warehouse		Taxonomies				
0	Wh	at is OLAP used for?			1	2	2	1
٠,		Data entry	(D)	Data starage		_	-	•
		_		Data storage				
	(C)	Data analysis	(D)	Data processing				
10.	Wha	at is dimension in dimensional an	alvsi	z?	1	2	3	1
200		A measurement unit	_	A categorical variable used for				
	(-1)	Trinous difficult diffe	(2)	data analysis				
	(C)	A numerical variable used for	(D)	•				
	` '	data analysis	( )					
11	77 71						2	
11.		at is the purpose of metadata quer			1	2	3	1
	(A)	metadata		To create metadata from raw data				
28	(C)	To standardize metadata	(D)	To store metadata				
12	W/ha	at is recovery?			1	2	3	1
12.		-	(D)	The precess of marine data to	_	_	Ü	-
	(A)	of data for protection	(D)	The process of moving data to another location				
	(C)	The process of restoring data	(D)					
	(0)	after a failure	(D)	The process of defeting data				
13.	Wha	at is a decision tree in data mining	<b>5</b> ?		1	2	4	1
		A data visualization tool		A clustering technique				
	(C)	A regression analysis		A predictive modeling				
	( )	technique	(-)	technique				
14.	Whi	ch of the following is a technique	e used	l in data transformation?	1	1	4	1
	` '	Scaling	(B)	Outlier removal				
	(C)	Data integration	(D)	Data cleaning				
15	The	left hand side of an association re	ulo io	onllad	1	2	4	1
15.		Consequent		On set	•	~		1
		Antecedent	` '				9	
	(C)	Amecedem	(D)	Precedent				
16.	Whi	ch of the following is required by	/ K-m	eans clustering?	1	1	4	1
		Defined distance metric						
				Assignment of each point to				
(F)	` ′	centroids	` '	clusters				
17	The	data managament -1-4	form	is a normanial alaticana Con 1	1	1	5	1
1/.		sfer, transformation and automatic		is a powerful platform for data	1	1	5	1
		Network		VΏD				
	` /		` '	Y2B				
	(C)	Clover Dx	(D)	Rank Dx				
18.	The	business driven data warehouse a	autom	ation solution is	1	1	5	1
		Data vault creator		Informatica				
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	19.	(C) Panoply (D) TiltMx EDEKA will be able to instantly share product information throughout their supply chain and more than 6,000 stores by (A) Hybrid architecture (B) Action driven architecture (C) Event driven architecture (D) Network architecture	1	2	5	1
	20.	The simplest approach to sync, store and retrieve your data is using, which combines a data warehousing with built-in data connections.  (A) Panoply (B) Monopoly (C) Storage (D) Access	1	1	5	1
		PART – B (5 × 4 = 20 Marks) Answer ANY FIVE Questions	Marks	BL	со	PO
	21.	A data warehouse in an environment, not a product. Discuss.	4	1	1	1
	22.	What are the various sources for the data warehouse? Explain.	4	2	1	1
	23.	Explain the sparse nature of the data in the fact table.	4	2	2	1
	24.	Differentiate between slowly and rapidly changing dimensions.	4	2	3	1
	25.	Name five types of major transformation tasks.	4	1	4	1
	26.	Explain data integration in brief.	4	1	4	1
	27.	Explain confidence metrics to evaluate the strength of association rule.	4	1	4	. 1
		PART – C ( $5 \times 12 = 60$ Marks) Answer ALL Questions	Marks	BL	со	PO
2	8. a.	Discuss about data warehouse architecture components with neat diagram.	12	1	. 1	1
	b.	(OR) Explain data warehouse development phase with neat sketch.	12	1	1	1
2	9. a.	Discuss any two data extraction technique with a suitable sketch.	12	1	2	1
	b.	(OR) Explain dimension analysis with proper example.	12	1	2	1
3	0. a.	Explain the building and implementing of data marts.	12	1	3	1
	b.	(OR)  Describe the working of backup and recovery of data warehousing.	12	1	3.	1
3	1. a.	Explain Apriori algorithm with suitable example.	12	1	4	1
		(OR)				

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