T.E. (Comps) (Sem-II) (CBCGS)

Dec-2022

Time: 3-hour

Max. Marks: 80

Note: 1. Question nc.1 is compulsory.

- 2. Attempt any three out of remaining five.
- 3. Assumptions made should be clearly indicated.
- 4. Figures to the right indicates full marks.
- 5. Assume suitable data whenever necessary.
- Q1. A Describe the architecture of data warehouse system. What is Metadata in data warehouse explain it with example. (10)

B Discuss updates to dimension tables in detail. (10)

Q2. A Write a short note on CLARANS and Web Mining in detail. (10)

B Explain Fact-less Fact Table with example. Describe E1L of data warehousing in detail (10)

Q3. A Consider four objectives with two attribute (X and Y). These four objects are to be grouped together into two clusters. Following are the objects with their attribute values. (10)

Object	X	Y
A	1	1 1
В	2	1
С	4	3
D	5	4

B Explain frequent pattern mining with example. Given the following data, apply the Apriory Algorithm, with minimum support 50%. Find the frequent patterns and Association Rules. (10)

Transactions	TID	Items
ı	100	134
2	200	2 3 5
3	300	1235
4	400	2 5

Q4. A Explain difference between Agglomerative and Divisive Hierarchical Clustering.

Explain difference between OLTP and OLAP.

(10) .

B Explain Decision Tree algorithm and FP tree algorithm in detail.

(10)

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Q5. A	Design star and snowtlake schema for Hotel Occupancy considering dimensions like		
	Time, Hotel, Room, etc.		(10)
В	Explain Data Preprocessing in detail		(10)
Q6.	Write short note on the following (Solve any four)		(20)
A	Applications of Data Mining		
В	OLAP Operations		
C	Data Visualization		
D	Applications of Web Mining	en e	
E	Multilevel and Multidimensional Association rules.		
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