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# Question Paper Code: 51324

## B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2014.

#### Seventh Semester

### Computer Science and Engineering

#### CS 2032/CS 701/10144 CSE 32 — DATA WAREHOUSING AND DATA MINING

(Common to Sixth Semester Information Technology)

(Regulation 2008/2010)

(Common to PTCS 2032 – Data warehousing and Data Mining for B.E. (Part-Time) Sixth Semester – Computer Science and Engineering – Regulation 2009)

Time: Three hours

Maximum: 100 marks

#### Answer ALL questions.

#### PART A — $(10 \times 2 = 20 \text{ marks})$

- 1. What is the need for back end process in data warehouse design?
- 2. What are the advantages dimensional modelings?
- 3. List out the two different types of reporting tools.
- 4. Define OLAP.
- 5. What is Legacy database?
- 6. What is descriptive and predictive data mining?
- 7. How is prediction differing from classification?
- 8. How do you choose best split while constructing a decision tree?
- 9. What is a STING?
- 10. Define Wave Cluster?

PART B — 
$$(5 \times 16 = 80 \text{ marks})$$

11. (a) (i) Explain the mapping of data warehouse to multiprocessor architecture. (10)

Or

(ii) Discuss about data warehouse meta data.

(6)

(b) With a neat diagram describe the various stages of building a data warehouse. (16)

12.	(a)	(i)	Explain the data model which is suitable for data warehouse wir an example.	th (8)
		(ii)	Write the difference between multi-dimensional OLAP and multi-relational OLAP.	ti- (8)
			Or	
	(b)	Expl	ain the different types of OLAP tools. (1	6)
13.	(a)		t is the use of data mining task? What are the basic types of dang tasks? Explain with examples. (1	ta 6)
			$\operatorname{Or}$	
	(b)	Expl	ain various methods of data cleaning in detail. (1	6)
14.	(a)	(i)	Write and explain the algorithm for mining frequent itemse without candidate generation.	ts 8)
		(ii)	A database has nine transactions let min_sup = 30%.	8)
			TID List of items_IDs	
			1 a, b, e	
			2 b, d	
			b, c	
			4 a, b, d	
			5 a, c	
			6 b, c	
			7 a, c	
			a, b, c, e	
			9 a, b, c	
			Find all frequent itemsets using the above algorithm.	e.
			$\mathbf{Or}$	
	(b)		an example explain various attribution selection measures ification.	
15.	(a)	(i)	Explain the different types of data used in cluster analysis. (1	0)
54 V		(ii)	Discuss the use of outlier analysis.	6)
			$\mathbf{Or}$	
	(b)	(i)		6)
	(0)	(ii)	Explain how data mining is used for retail industry. (1)	
		(11)	Explain from dava mining to about for robust madely.	-/