(6 pages)	Reg. No.:
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Code No.: 30610 E Sub. Code: SMCS 63

B.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2020.

Sixth Semester

Computer Science - Main

## DATA WAREHOUSING AND DATA MINING

(For those who joined in July 2017 owards)

Time: Three hours Maximum: 75 marks

PART A —  $(10 \times 1 = 10 \text{ marks})$ 

Answer ALL questions.

Choose the correct answer:

- 1. A could be a set of denormalised, summarised or aggregated data.
  - (a) Metadata
  - (b) data mart
  - (c) EIS
  - (d) Data query

2.	The functionality of data transformation includes					
	(a) Removing un databases	wanted d	ata from	operat	ional	
	(b) Converting to definitions	o commo	n data	names	and	
	(c) Calculating su	mmaries	and derive	d data		
	(d) All of the abov	e				
3.	How many types of Database activity?					
	(a) 2	(b)	4			
	(c) 6	(d)	8			
4.	OLAP data servers can also go in the reverse direction and automatically display detail data which comprises consolidated data This is called					
	(a) Dicing	(b)	Consolida	ation		
	(c) Slicing	(d)	drill-dow	ns		
5.	A — query language can be designed to incorporate these primitives, allowing users to flexibly interact with data mining systems.					
	(a) Data mining					
	(b) Data Warehou	sing				
	(c) OLAP					
	(d) OLTP					

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6.	Data mining often requires — the merging of data from multiple data stores.					
	(a) Data cleaning					
	(b) Data integration					
	(c) Data Transformation					
	(d) Data Reduction					
7.	——————————————————————————————————————					
	(a) Multilevel (b) Multidimensional					
	(c) Rare patterns (d) Quantitative					
8.	The units in the hidden layers and output layers are sometimes referred to as —————.					
	(a) neurons (b) Neurodes					
	(c) cell (d) None of these					
9.	An agglomerative hierarchical clustering methoduses — strategy.					
	(a) Top-down (b) Bottom-up					
	(c) Structural (d) Procedural					
10.	A tree structure called a clustering.					
	(a) Single-linkage					
	(b) dendrogram					
	(c) AGNES					
	(d) BIRCH					

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## PART B — $(5 \times 5 = 25 \text{ marks})$

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Write short notes on Data warehouse Database.

Or

- (b) Describe the Tangible benefits.
- 12. (a) Enumerate the OLAP Guidelines.

Or

- (b) Write the need for Application OLAP.
- 13. (a) Give an account of Data Mining Concept.

Or

- (b) Denote the Integration of a Data Mining system with a Data Warehouse.
- 14. (a) Criticize the Apriori Algorithm.

Or

(b) Explain about Tree pruning in decision tree.

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15. (a) Write short notes on DBSCAN.

Or

(b) Describe the Grid based clustering method.

PART C — 
$$(5 \times 8 = 40 \text{ marks})$$

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Explain in detailed about Access Tools in Data Warehouse.

Or

- (b) Summarize the design consideration for building Data Warehouse.
- 17. (a) Determine the importance of Multidimensional Data Model in OLAP.

Or

- (b) Write brief notes on MOLAP.
- 18. (a) Clarify about what kind of data can be mined.

Or

(b) Illustrate the functionalities of Data Cleaning.

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19. (a) Explain how to mining various kinds of Association Rules.

Or

- (b) Write detail notes on Bayesian classification methods.
- 20. (a) Determine the concept of Cluster analysis.

Or

(b) Describe about Hierarchical Methods.

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