



UE17CS312

DECEMBER 2020: END SEMESTER ASSESSMENT B Tech 5th SEMESTER
UE17CS312- Database Technologies

1	a	Describe multidimensional data model	6
	b	Describe star and snowflake schemas	4
	c	What are the Typical Functionality of a Data Warehouse	7
	d	What is OLAP?	3
2	a	Describe the three main architectures of parallel DBMS	6
	b	Explain the various operations that can be implemented in parallel	4
	c	Describe the three main distributed DBMS architectures	6
	d	Describe homogeneous and heterogeneous distributed database systems	4
3	a	What are the characteristics of NOSQL databases?	5
	b	Explain Document-based NoSQL systems	5
	c	Explain Key-value NoSQL databases	5
	d	Explain Graph-based NOSQL systems	5
4	a	What are the characteristics of Big Data	8
	b	Explain the MapReduce programming model	8
	c	Explain Hadoop Distributed File System (HDFS)	4
5	a	What are Temporal databases?	5
	b	What are Spatial databases?	5
	c	What are deductive databases?	5
	d	Explain the architecture of in-memory databases	5