Reg. No.					



CSH 203

II Semester M.Sc. Examination, September/October 2022 COMPUTER SCIENCE Advanced Database Management Systems

Time: 3 Hours Max. Marks: 70

		Note: Answer any five full questions. All questions carries equal marks.	
1.	a)	With a neat diagram, differentiate between two-tier and three-tier architecture of DBMS.	7
	b)	What is XML? Explain different XML tools used for transforming document.	7
2.	a)	Explain the various components of database system architecture.	7
	b)	Explain the use of NoSQL database. Explain JSON document database.	7
3.	a)	Explain when to use columnar databases. List advantages and disadvantages of columnar databases.	7
	b)	What is SSD ? Explain flash SSD performance characteristics.	7
4.	a)	Discuss various Sybase IQ Knowledge Modules.	7
	b)	With a suitable diagram, explain the elements of Spark processing.	7
5.	a)	Write a note on classification of database servers.	7
	b)	Briefly explain the open source NoSQL distributed Cassandra database implementation.	7
6.	a)	Explain MongoDB sharding architecture with a neat diagram.	7
	b)	Explain the HBase Consistency in detail.	7
7.	a)	Differentiate between Hive query language and commonly used structured query language.	7
	b)	With a neat diagram, explain relational database storage architecture.	7
8.	a)	Write a note on any two NoSQL database APIs.	7
	b)	Explain the quantum transactions and quantum search in detail.	7
